

Chapter 6

List of Replaceable Parts

	Title	Page
6-1.	Introduction	6-3
6-2.	How to Obtain Parts	6-3
6-3.	Manual Status Information	6-3
6-4.	Newer Instruments	6-3
6-5.	Service Centers	6-4

6-1. Introduction

This section contains an illustrated list of replaceable parts for the 5700A. Parts are listed by assembly; alphabetized by reference designator. Each assembly is accompanied by an illustration showing the location of each part and its reference designator. The parts lists give the following information:

- Reference designator
- An indication if the part is subject to damage by static discharge
- Description
- Fluke stock number
- Manufacturers supply code
- Manufacturers part number or generic type
- Total quantity
- Any special notes (i.e., factory-selected part)

CAUTION

A * symbol indicates a device that may be damaged by static discharge.

6-2. How to Obtain Parts

Electrical components may be ordered directly from the manufacturer by using the manufacturers part number, or from the Fluke Corporation and its authorized representatives by using the part number under the heading **FLUKE STOCK NO.** In the U.S., order directly from the Fluke Parts Dept. by calling 1-800-526-4731. Parts price information is available from the Fluke Corporation or its representatives. Prices are also available in a Fluke Replacement Parts Catalog which is available on request.

In the event that the part ordered has been replaced by a new or improved part, the replacement will be accompanied by an explanatory note and installation instructions, if necessary.

To ensure prompt delivery of the correct part, include the following information when you place an order:

- Instrument model and serial number
- Part number and revision level of the pca containing the part.
- Reference designator
- Fluke stock number
- Description (as given under the **DESCRIPTION** heading)
- Quantity

6-3. Manual Status Information

The Manual Status Information table that precedes the parts list defines the assembly revision levels that are documented in the manual. Revision levels are printed on the component side of each pca.

6-4. Newer Instruments

Changes and improvements made to the instrument are identified by incrementing the revision letter marked on the affected pca. These changes are documented on a supplemental change/errata sheet which, when applicable, is included with the manual.

6-5. Service Centers

A list of service centers is located at the end of this section.



This instrument may contain a Nickel-Cadmium battery. Do not mix with the solid waste stream. Spent batteries should be disposed of by a qualified recycler or hazardous materials handler. Contact your authorized Fluke service center for recycling information.

Manual Status Information

Ref or Option No.	Assembly Name	Fluke Part No.	Revision Level
A1	Keyboard PCA	761049	C
A2	Front Panel PCA	761031	F
A3	Analog Motherboard PCA	761023	C
A4	Digital Motherboard PCA	760942	G
A5	WideBand Output PCA	761346	J
A6	Wideband Oscillator PCA	761098	K
A7	Current/High-Resolution Oscillator PCA	764613	V
A8	Switch Matrix PCA	761106	T
A9	Ohms Cal PCA	775395	K
A10	Ohms Main PCA	761114	E
A11	DAC PCA	761122	P
A11A1	DAC Filter PCA	761395	B
A11A2	DAC Buffered Reference PCA	764639	A
A12	Oscillator Control PCA	761130	M
A13	Oscillator Output PCA	761148	M
A13A1	Oscillator Wideband PCA	761403	B
A14	High Voltage Control PCA	775429	H
A15	High Voltage/High Current PCA	761155	G
A16	Power Amplifier PCA	761163	U
A16A1	Power Amplifier Digital Control SIP PCA	775320	C
A17	Regulator/Guard Crossing PCA	761171	H
A18	Filter/PA Supply PCA	761189	P
A19	Digital Power Supply PCA	761056	H
A20	CPU PCA	761072	H
A21	Rear Panel PCA	761221	J

Table 6-1. Front Panel Final Assembly

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
A 1	⚡ KEYBOARD PCA	761049	89536	761049	1	
A 2	⚡ FRONT PANEL PCA	761031	89536	761031	1	
A 3	⚡ ANALOG MOTHERBOARD PCA	761023	89536	761023	1	
A 4	⚡ DIGITAL MOTHERBOARD PCA	760942	89536	760942	1	
A 7	⚡ CURRENT/HIGH-RES OSCILLATOR PCA	764613	89536	764613	1	
A 8	⚡ SWITCH MATRIX PCAN	761106	89536	761106	1	
A 9	⚡ OHMS CAL PCA	775395	89536	775395	1	
A 10	⚡ OHMS MAIN PCA	761114	89536	761114	1	
A 11	⚡ DAC PCA	761122	89536	761122	1	
A 12	⚡ OSCILLATOR CONTROL PCA	761130	89536	761130	1	
A 13	⚡ OSCILLATOR OUTPUT PCA	761148	89536	761148	1	
A 14	⚡ HIGH VOLTAGE CONTROL PCA	775429	89536	775429	1	
A 15	⚡ HIGH VOLTAGE/HIGH CURRENT PCA	761155	89536	761155	1	
A 16	⚡ POWER AMPLIFIER PCA	761163	89536	761163	1	
A 17	⚡ REGULATOR/GUARD CROSSING PCA	761171	89536	761171	1	
A 18	⚡ FILTER/PA SUPPLY PCA	761189	89536	761189	1	
A 19	⚡ DIGITAL POWER SUPPLY PCA	761056	89536	761056	1	
A 20	⚡ CPU PCA	761072	89536	761072	1	
A 21	⚡ REAR PANEL PCA	761221	89536	761221	1	
A 22	TRANSFORMER/MODULE ASSY	813527	89536	813527	1	1
CP 1	ADAPTOR, COAX, SMA (M), N (M)	516963	21845	SF1132-6002	1	
E 1	JUMPER, LINK, BINDING POST	190728	83330	21171	1	
E 2	GROUND STRIP, COPPER, 1.00X.375X.030	854836	86928	4805-38-3-T2	1	
H 5- 13	SCREW, THD FORM, PH, P, STL, 5-20, .312	494641		COMMERCIAL	9	
H 20- 23	SCREW, MACH, PH, P, STL, 4-40X0.187	129882		COMMERCIAL	4	
H 25- 28	SCREW, CAP, SCKT, SS, 8-32, .375	837575		COMMERCIAL	4	
H 29- 31	SCREW, MACH, PHU, P, SS, LOCKIN, 6-32, .250	769893		COMMERCIAL	3	
H 32- 42	SCREW, MACH, PH, P, STL, 6-32X0.250	152140		COMMERCIAL	11	
H 43	SCREW, PH, P, LOCK, SS, 6-32X0.375	334458	2M530	334458	1	
MP 1	PANEL, FRONT, SHEET METAL	761437	89536	761437	1	
MP 2	SHIELD, DISPLAY PWB	764514	89536	764514	1	
MP 3	LENS, SHIELD	760843	89536	760843	1	
MP 4	DECAL, FRONT OUTPUT CABLE DIAGRAM	802967	89536	802967	1	
MP 6	GROMMET, EXTRUDED, POLYETHYLENE, .085	854351	95987	GRPE-085-9	1	
MP 14- 16	BINDING POST-RED	850292	89536	850292	3	A
MP 14-16	BINDING POST-RED	886382	89536	886382	3	B
MP 17, 18	BINDING POST, BLACK	850297	89536	850297	2	A
MP 17, 18	BINDING POST, BLACK	886379	89536	886379	2	B
MP 19	BINDING POST, GREEN	823229	89536	823229	1	A
MP 19	BINDING POST, GREEN	886374	89536	886374	1	B
MP 20	BINDING POST, BLUE	823203	89536	823203	1	A
MP 20	BINDING POST, BLUE	886366	89536	886366	1	B
MP 21	ENCODER WHEEL	764548	89536	764548	1	
MP 22	FRONT PANEL, MOLDED	775627	89536	775627	1	A
MP 22	FRONT PANEL, MOLDED	886325	89536	886325	1	B
MP 23	KNOB, ENCODER, GRAPHITE	786590	89536	786590	1	A
MP 23	KNOB, ENCODER, GRAPHITE	868794	89536	868794	1	B
MP 24	KEYPAD, ELASTOMERIC	813469	89536	813469	1	A
MP 24	KEYPAD, ELASTOMERIC	885397	89536	885397	1	B
MP 25	DECAL, POWER ON/OFF	775759	89536	775759	1	A
MP 25	DECAL, POWER ON/OFF	886312	89536	886312	1	B
MP 26	DECAL, KEYPAD	775346	89536	775346	1	A
MP 26	DECAL, KEYPAD	886304	89536	886304	1	B

Table 6-1. Front Panel Final Assembly (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
MP 27	DECAL, FRONT OUTPUT	775742	89536	775742	1	A
MP 27	DECAL, FRONT OUTPUT	886309	89536	886309	1	B
MP 28- 34, 39	NUT, #8 LOW THERMAL	850334	89536	850334	8	
MP 35	LENS, DISPLAY	775718	89536	775718	1	
MP 36	NAMEPLATE, ELECTROFORM 3"	802868	89536	802868	1	
MP 37, 38	HANDLE, INSTRUMENT	791897	89536	791897	2	A
MP 37, 38	HANDLE, INSTRUMENT	886333	89536	886333	2	B
TM 1	5700A GETTING STARTED MANUAL	791962	89536	791962	1	
TM 2	5700A OPERATOR MANUAL	791905	89536	791905	1	
TM 3	5700A SERVICE MANUAL	791996	89536	791996	1	
NOTES:	† Static sensitive part. 1. See Figure 6-1a. A. Used on S/N 5115000 and below. B. Used on S/N 5115001 and above.					

Table 6-1a. Chassis Final Assembly

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
A 22	TRANSFORMER/MODULE ASSY	813527	89536	813527	1	1
B 1, 2	FAN/CONNECTOR ASSEMBLY	761213	89536	761213	2	
E 1	BINDING POST PART, HEAD, BRASS, 1/4-28	102889	89536	102889	1	
F 1	FUSE, .25X1.25, 1.25A, 250V, SLOW	851936	71400	MDL813FLC	1	
H 1	INSULATOR, ANALOG BOTTOM	775361	89536	775361	1	
H 2- 10	SCREW, PH, P, LOCK, SS, 6-32, .500	320051	89536	320051	9	
H 14- 20, 84, H 89- 94	SCREW, MACH, PH, P, STL, 6-32X0.750	114223 114223		COMMERCIAL	14	
H 21- 42, 87, H 88, 110-112	SCREW, MACH, PH, P, STL, 6-32X0.250	152140 152140		COMMERCIAL	27	
H 43, 44	SCREW, MACH, PH, P, STL, 6-32X0.375	152165		COMMERCIAL	2	
H 45- 56	SCREW, CAP, SCKT, SS, 8-32, .375	295105		COMMERCIAL	12	
H 57- 73	SCREW, MACH, FHU, P, SS, LOCKIN, 6-32, .250	769893		COMMERCIAL	17	
H 74- 81	SCREW, MACH, PH, P, STL, 6-32X1.250	159756		COMMERCIAL	8	
H 85, 86, 95, H 96	WASHER, FLAT, STL, .149, .375, .031	110270 110270		COMMERCIAL	4	
H 97, 98	WASHER, FLAT, STL, .160, .281, .010	111005		COMMERCIAL	8	
H 105-108	SCREW, MACH, TH, P, STL, 8-32X.250	853622		COMMERCIAL	4	
MP 1	COVER, DIGITAL	775635	89536	775635	1	
MP 2	BOTTOM COVER, ANALOG BOX	764530	89536	764530	1	
MP 3	TOP COVER, ANALOG BOX	764522	89536	764522	1	
MP 4	RELAY BRACKET	761015	89536	761015	1	
MP 5	TOP COVER, INSTRUMENT	775817	89536	775817	1	A
MP 5	TOP COVER, INSTRUMENT	886395	89536	886395	1	B
MP 6	BOTTOM COVER, INSTRUMENT	775825	89536	775825	1	A
MP 6	BOTTOM COVER, INSTRUMENT	886403	89536	886403	1	B
MP 7	SHROUD, CPU CABLE	813519	89536	813519	1	
MP 8, 24- 30	NUT, #8 LOW THERMAL	850334	89536	850334	8	
MP 9, 10	WASHER, FLAT, STL, .160, .281, .010	111005	89536	111005	2	
MP 11	POWER BUTTON, ON/OFF	775338	89536	775338	1	
MP 12- 15	BOTTOM FOOT, MOLDED	775791	89536	775791	4	A
MP 12- 15	BOTTOM FOOT, MOLDED	868786	89536	868786	4	B
MP 18, 19	SIDE TRIM EXTRUSION, MODIFIED	684555	89536	684555	2	A
MP 18, 19	SIDE TRIM EXTRUSION, MODIFIED	886288	89536	886288	2	B
MP 20, 21	ADHESIVE SIDE TRIM	698316	89536	698316	2	
MP 22, 113	DECAL, CAUTION 240V	760926	89536	760926	2	
MP 23	DECAL, CAUTION 900V	760934	89536	760934	1	
MP 31- 44, 131 MP 132	WASHER, LOW THERMAL #8	859939 859939	89536	859939	16	
MP 45, 46	SIDE TRIM- INSERT MODIFIED	699082	89536	699082	2	A
MP 45, 46	SIDE TRIM- INSERT MODIFIED	886283	89536	886283	2	B
MP 47	INSULATOR, DIGITAL MOTHERBOARD	761247	89536	761247	1	
MP 54, 55	AIDE, PCB PULL	541730	89536	541730	2	
MP 108-110	FOOT, ADHESIVE, RUBBER, GREY, .44X.20	358341	28213	SJ-5003	3	
MP 114	GROMMET, SLOT, RUBBER, .250, .437	853291	73734	113006	1	
W 1	CABLE, WIDEBAND TO FRONT PANEL	802785	89536	802785	1	
NOTES:	† Static sensitive part. 1. Non-repairable assembly A. Used on S/N 5115000 and below. B. Used on S/N 5115001 and above.					

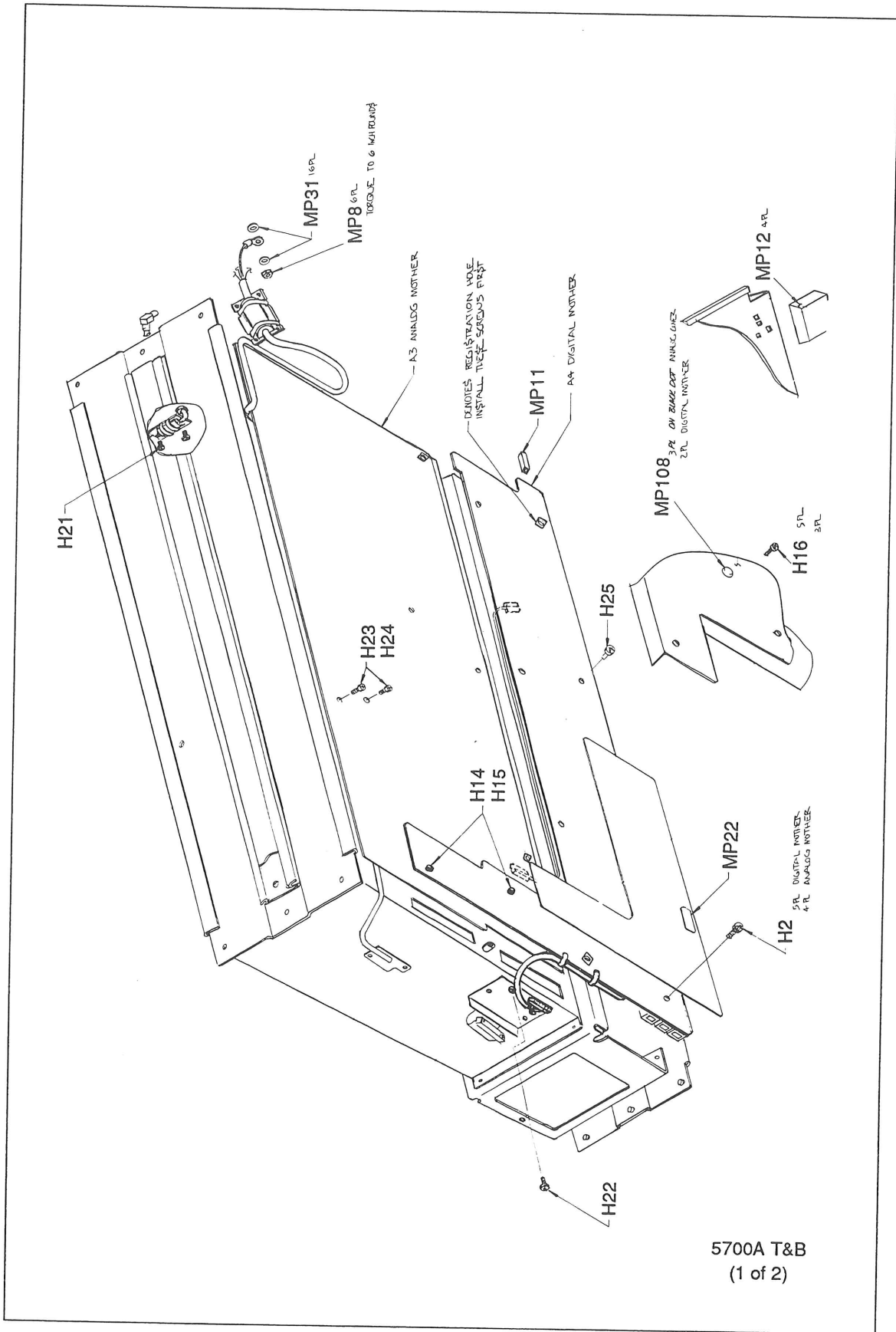
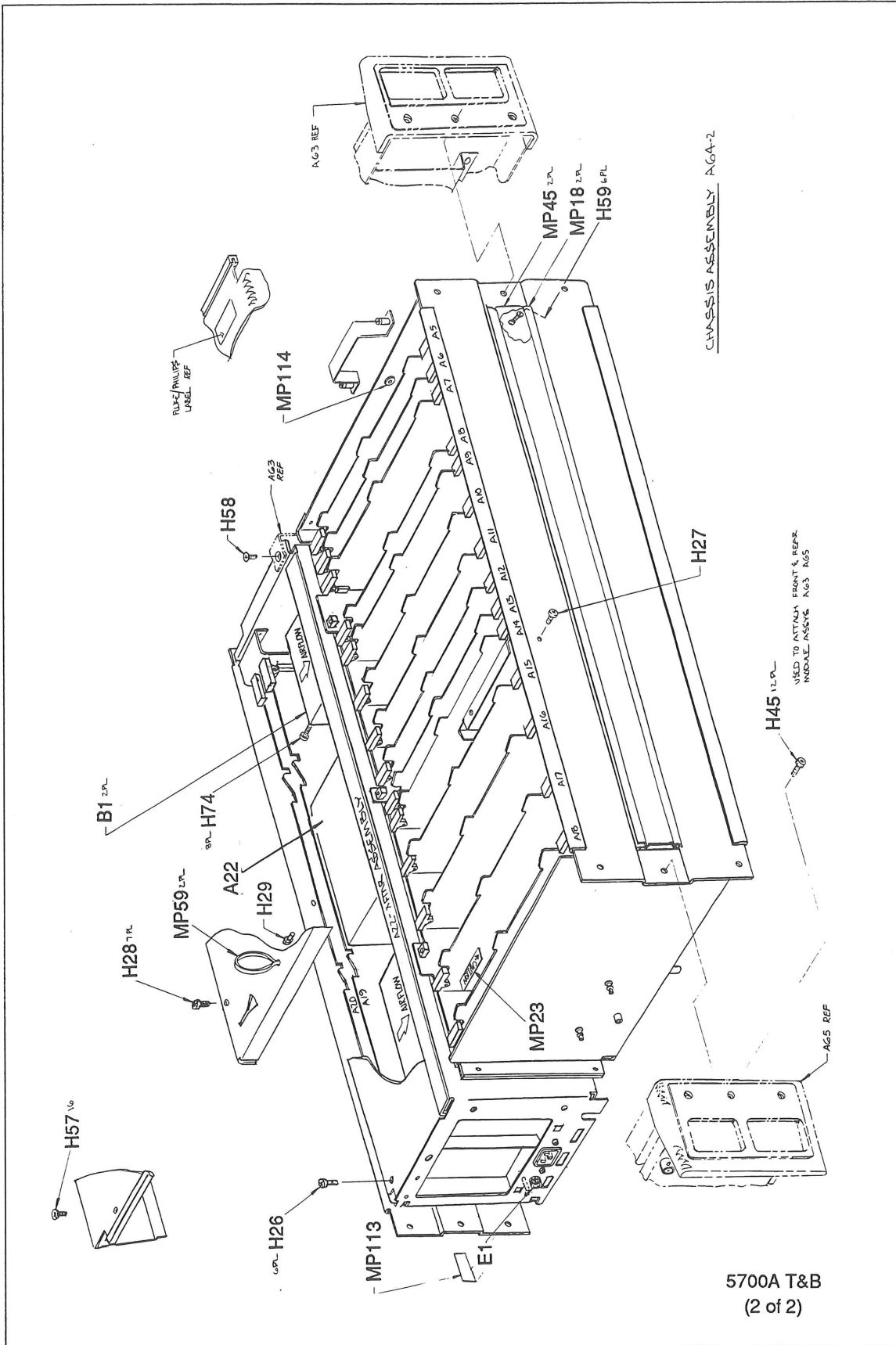


Figure 6-1a. Chassis Final Assembly

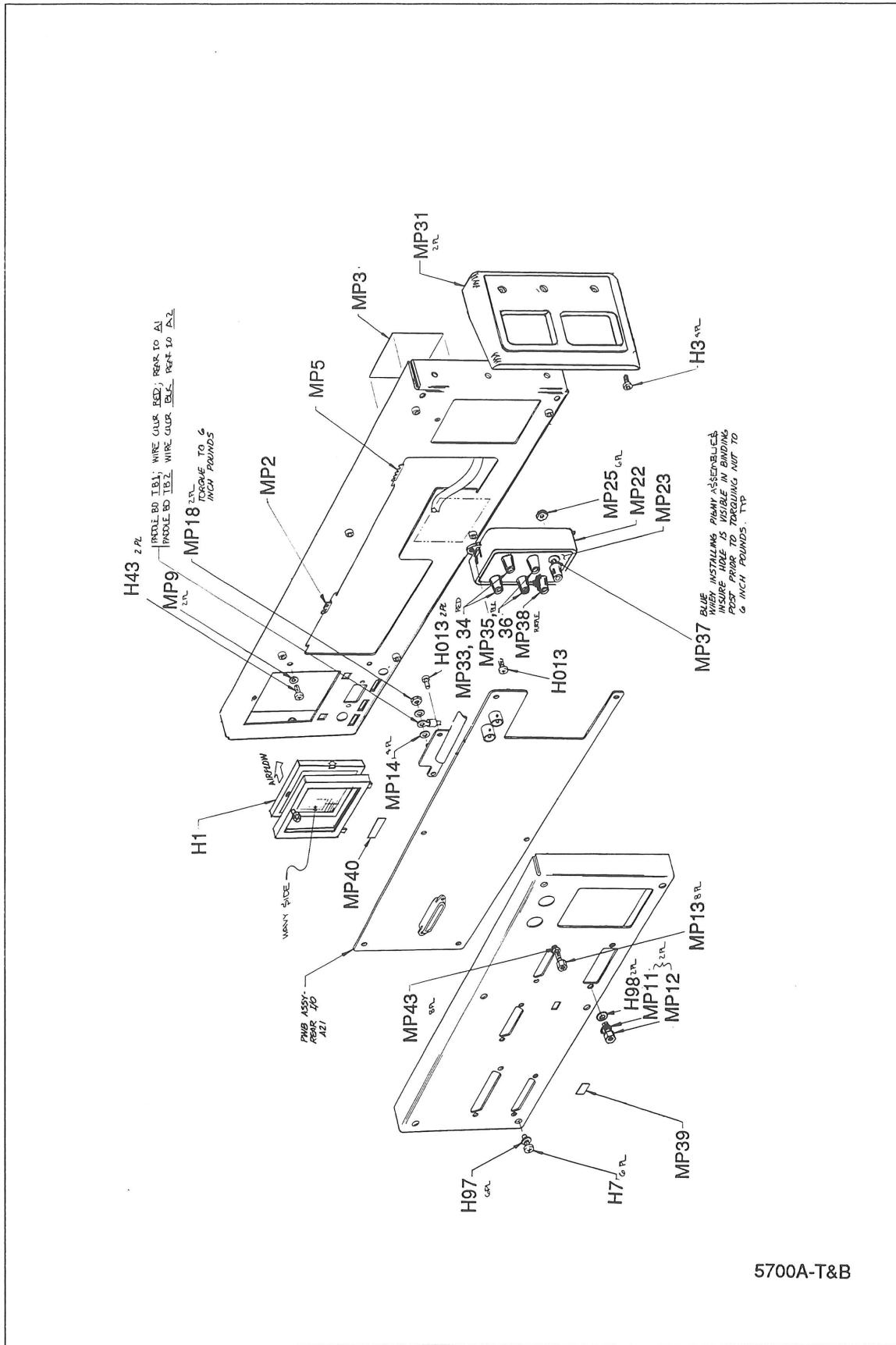


5700A T&B
(2 of 2)

Figure 6-1a. Chassis Final Assembly (cont)

Table 6-1b. Rear Panel Final Assembly

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
F 1	FUSE, .25X1.25, 1.25A, 250V, SLOW	851936	71400	MDL-8-1-3-FLC	1	
H 1	FILTER, AIR	813493	89536	813493	1	
H 3- 6	SCREW, CAP, SCKT, SS, 8-32, .375	837575		COMMERCIAL	4	
H 7- 12	SCREW, MACH, PH, P, STL, 6-32X0.750	114223		COMMERCIAL	6	
H 13	SCREW, MACH, PH, P, STL, 6-32X0.250	152140		COMMERCIAL	1	
MP 1	PANEL, REAR	764464	89536	764464	1	A
MP 1	PANEL, REAR	886387	89536	886387	1	B
MP 2	GROMMET, EXTRUDED, POLYETHYLENE, .085	854351	89536	854351	1	
MP 3	DECAL, REAR OUTPUT CABLE DIAGRAM	802975	89536	802975	1	A
MP 3	DECAL, REAR OUTPUT CABLE DIAGRAM	886291	89536	886291	1	B
MP 5	GROMMET, NYLON, NAT, .056X.150X.100X.155	285254	03296	G51P-A	1	
MP 11, 12	CONN ACC, MICRO-RIBBON, JACK SCREW	681940	02660	57-1912-01	2	
MP 13- 20	CONN ACC, D-SUB, JACK SCREW, 4-40	448092	08718	D-20418-2	8	
MP 21	ALUMINUM REAR OUTPUT HOUSING	775809	89536	775809	1	A
MP 21	ALUMINUM REAR OUTPUT HOUSING	885462	89536	885462	1	B
MP 22	MOLDED HOUSING, REAR OUTPUT	775783	89536	775783	1	A
MP 22	MOLDED HOUSING, REAR OUTPUT	886358	89536	886358	1	B
MP 23	DECAL, REAR OUTPUT	813576	89536	813576	1	A
MP 23	DECAL, REAR OUTPUT	886296	89536	886296	1	B
MP 24	FILTER FRAME	775734	89536	775734	1	A
MP 24	FILTER FRAME	886390	89536	886390	1	B
MP 25- 30	NUT, #8 LOW THERMAL	850334	89536	850334	6	
MP 31, 32	HANDLE, INSTRUMENT	791897	89536	791897	2	A
MP 31, 32	HANDLE, INSTRUMENT	886333	89536	886333	2	B
MP 33, 34	BINDING POST-RED	850292	89536	850292	2	A
MP 33, 34	BINDING POST-RED	886382	89536	886382	2	B
MP 35, 36	BINDING POST, BLACK	850297	89536	850297	2	A
MP 35, 36	BINDING POST, BLACK	886379	89536	886379	2	B
MP 37	BINDING POST, BLUE	823203	89536	823203	1	A
MP 37	BINDING POST, BLUE	886366	89536	886366	1	B
MP 38	BINDING POST, PURPLE	850321	89536	850321	1	A
MP 38	BINDING POST, PURPLE	886361	89536	886361	1	B
MP 43- 50	WASHER, FLAT, SS, .119, .187, .010	853296		COMMERCIAL	8	
MP 51- 54	WASHER, LOW THERMAL	760892	89536	760892	4	
MP 55, 56	NUT, LOW THERMAL	760876	89536	760876	2	
MP 106, 107	WASHER, FLAT, STL, .191, .289, .010	111047	89526	111047	2	
MP 125-130	WASHER, FLAT, STL, .160, .281, .010	111005	89536	111005	6	
W 1	CORD, LINE, 5-15/IEC, 3-18AWG, SVT	284174	70903	17239	1	
W 2	AC LINE FILTER ASSY	775445	89536	775445	1	
NOTES:	† Static sensitive part. A. Used on S/N 5115000 and below. B. Used on S/N 5115001 and above.					



5700A-T&B

Figure 6-1b. Rear Panel Final Assembly

Table 6-2. A1 Keyboard PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
CR 1- 4	LED, GREEN, SUBMINIATURE, 4 MCD	912241	26402	SSL-LXASS3GC	4	
DT 1, 2	† ISOLATOR, OPTO, OPTICAL SWITCH, INFRARED	523530	09214	H22A1	2	
W 1	CABLE, KEYBOARD/REAR PANEL	802710	89536	802710	1	
NOTES:	† Static sensitive part.					

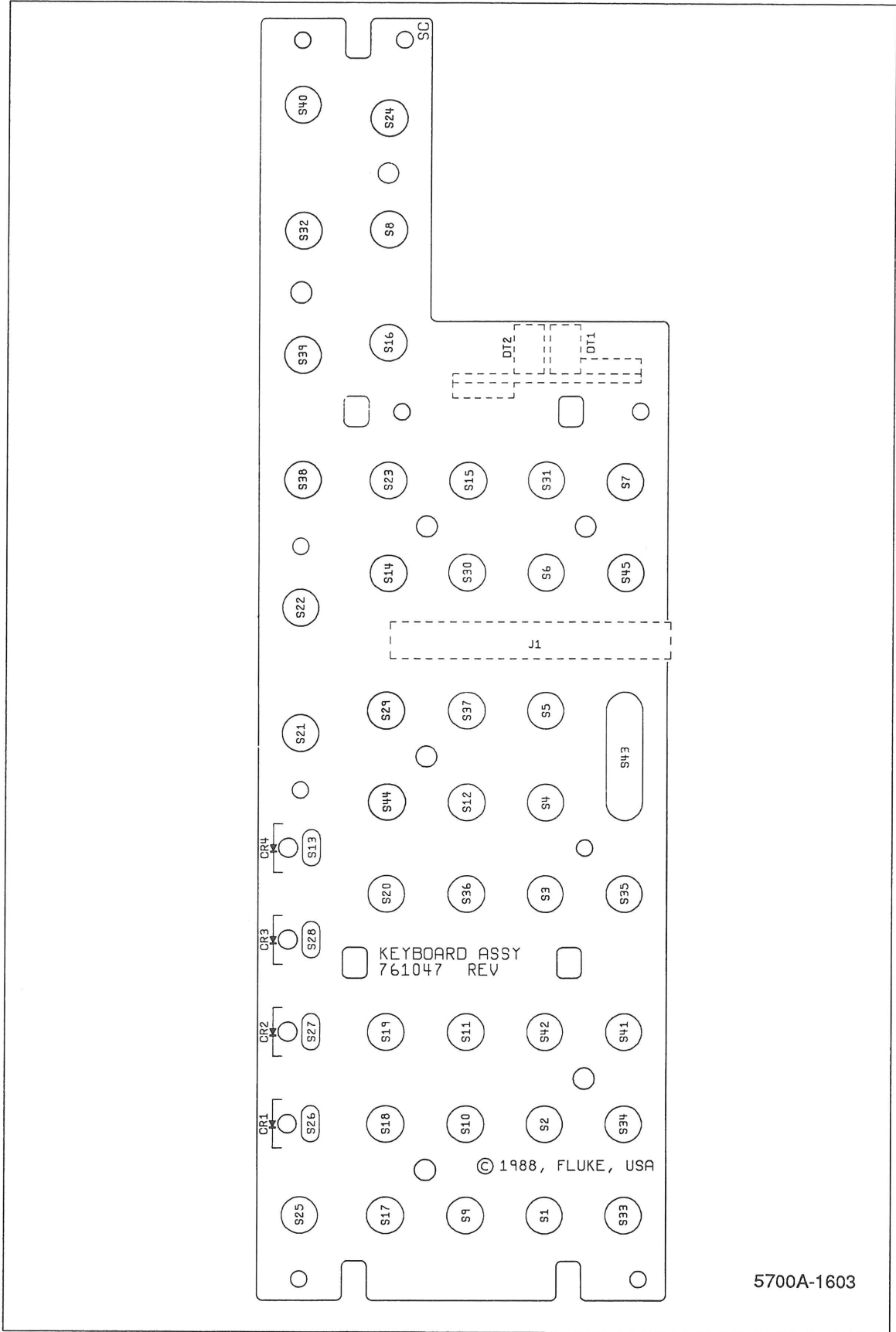


Figure 6-2. A1 Keyboard PCA

Table 6-3. A2 Front Panel PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1	CAP, TA, 47UF, +-20%, 10V	746990	56289	195D476X0010H2B	1	
C 2, 4, 9- C 20, 28, 30, C 35, 37, 39- C 46, 64	CAP, CER, 0.1UF, +-10%, 25V, X7R, 1206	747287 747287 747287 747287	04222	12063C104KAT060R	27	
C 3, 21- 27, C 29, 31, 36, C 38, 47- 50, C 66	CAP, TA, 10UF, +-20%, 25V	929302 772491 772491 772491	89536	929302	17	
C 5, 33, 65	CAP, TA, 1.5UF, +-20%, 50V	780478	56289	195D155X0050F2B	3	
C 6, 8, 32, C 34, 51- 54	CAP, CER, 0.01UF, +-20%, 100V, X7R, 1206	742981 742981	04222	12061C103MA1050B	8	
C 7	CAP, AL, 10UF, +-20%, 100V, SOLV PROOF	820738	62643	KME100T10RM6X16LL	1	
C 55- 62	CAP, POLYES, 0.68UF, +-20%, 100V	912506	68919	MKS2684M100	8	
C 63	CAP, CER, 100PF, +-10%, 50V, C0G, 1206	740571	04222	12065A101KAT050R	1	
DS 1	TUBE, DISPLAY, VAC FLOR, 2-ROW, 22-CHAR	806976	0BW21	CP2215	1	
DS 2	TUBE, DISPLAY, VAC FLUOR, PATTERN DIS	832543	89536	832543	1	
J 2	HEADER, 2 ROW, .100CTR, 40 PIN	807453	59730	501-4027ES	1	
MP 1- 10	FOOT, ADHESIVE, RUBBER, BLACK, .50X.12	543488	28213	SJ5008	10	
Q 1- 4, 7- Q 10	TRANSISTOR, SI, PNP, SMALL SIGNAL, SOT23	742023 742023	73445	BCX17TRL	8	
Q 5, 6, 11, Q 12	TRANSISTOR, SI, NPN, SMALL SIGNAL, SOT23	742031 742031	73445	BCX19TRL	4	
R 1, 3, 5, R 6, 8, 10- R 12, 20, 28- R 30, 55- 59, R 61, 63, 65, R 72, 76	RES, CERM, 4.7K, +-5%, .125W, 200PPM, 1206	740522 740522 740522 740522 740522 740522	59124	RM73B2BJ472B	22	
R 2, 4, 7, R 9, 40, 41, R 52, 53	RES, CERM, 1.1K, +-5%, .125W, 200PPM, 1206	746008 746008 746008	09969	CRCW1206112JB02	8	
R 13- 15, 24, R 25, 70, 73- R 75	RES, CERM, 39K, +-5%, .125W, 200PPM, 1206	746677 746677 746677	09969	CRC11206393JB02	9	
R 16- 19	RES, CERM, 150, +-1%, .125W, 100PPM, 1206	772780	91637	CRCW1206151FB02	4	
R 22, 26, 37- R 39, 42, 49- R 51, 54	RES, CERM, 6.8K, +-5%, .125W, 200PPM, 1206	746024 746024 746024	09969	CRCW1206682JB02	10	
R 23, 27, 71	RES, CERM, 82K, +-5%, .125W, 200PPM, 1206	811794	59124	RM73B2BJ8202B	3	
R 31- 34, 43- R 46, 60, 62, R 64, 66	RES, CERM, 1K, +-5%, .125W, 200PPM, 1206	745992 745992 745992	59124	RM73B2BJ102B	12	
R 35, 36, 68	RES, CERM, 620, +-5%, .125W, 200PPM, 1206	745984	09969	CRCW1206621JB02	3	
R 47, 48	RES, CERM, 453, +-1%, .125W, 100PPM, 1206	801415	91637	CRCW1206453FB02	2	
R 67	RES, CERM, 200, +-5%, .125W, 200PPM, 1206	746339	59124	RM73B2BJ201B	1	
R 77	RES, CERM, 91, +-5%, .125W, 200PPM, 1206	756338	59124	RM73B2BJ910B	1	
SP 1	AF TRANSD, PIEZO, 24 MM	602490	51406	PKM24-4A1	1	
U 1, 2	IC, NMOS, 1K X 8 DUAL PORT SRAM, PLCC	806653	34335	AM2130-10JC	2	
U 3	IC, CMOS, 900 GATE PLD, 5700A-90720, PLCC	838607	89536	838607	1	
U 4	IC, CMOS, 900 GATE PLD, 5700A-90721, PLCC	838615	89536	838615	1	
U 5	IC, CMOS, 900 GATE PLD, 5700A-90722, PLCC	845375	89536	845375	1	
U 6	IC, CMOS, 14 STAGE BINARY COUNTER, SOIC	831081	04713	MC74HC4060DR1	1	
U 7	IC, COMPARATOR, DUAL, HIGH SPEED, SOIC	831271	18324	NE522DT	1	
U 8	IC, CMOS, 12 STAGE BIN RIPPLE CNTR, SOIC	831636	18324	74HC4040DT	1	
U 9	IC, CMOS, 900 GATE PLD, 5700A-90723, PLCC	845383	89536	845383	1	
U 10	IC, LSTTL, OCTL D TRANSPRT LATCHES, SOIC	742726	01295	SN74LS373DR	1	
U 11	IC, CMOS, HEX INVERTER, SOIC	742585	18324	N74HCT040	1	
U 12	IC, CMOS, DUAL D F/F, +EDG TRG, SOIC	782995	01295	SN74HC74DR	1	
U 13	IC, TTL, HEX INVERTER, W/OPEN COLL, SOIC	741249	18324	N7406DT	1	
U 14- 23	IC, BIMOS, DISPLAY DRIVER, 80V, PLCC	741231	56289	UCN5818EP-1	10	

Table 6-3. A2 Front Panel PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
U 24	IC, CMOS, 600 GATE PLD, 5700A-90724, PLCC	837369	89536	837369	1	
VR 1, 2	ZENER, UNCOMP, 3.9V, 10%, 64.0MA, 1.0W, MLF	742015	04713	MLL4703T1	2	
VR 3, 4	ZENER, UNCOMP, 6.8V, 10%, 37MA, 1W, MLF	806927	04713	MLL4736T1	2	
VR 5	ZENER, UNCOMP, 6.8V, 5%, 20MA, 350MW, SOT23	837195	04713	MMBZ5235BT1	1	
W 1	CABLE, MOTHERBOARD TO DISPLAY	791640	89536	791640	1	
NOTES:	f Static sensitive part.					

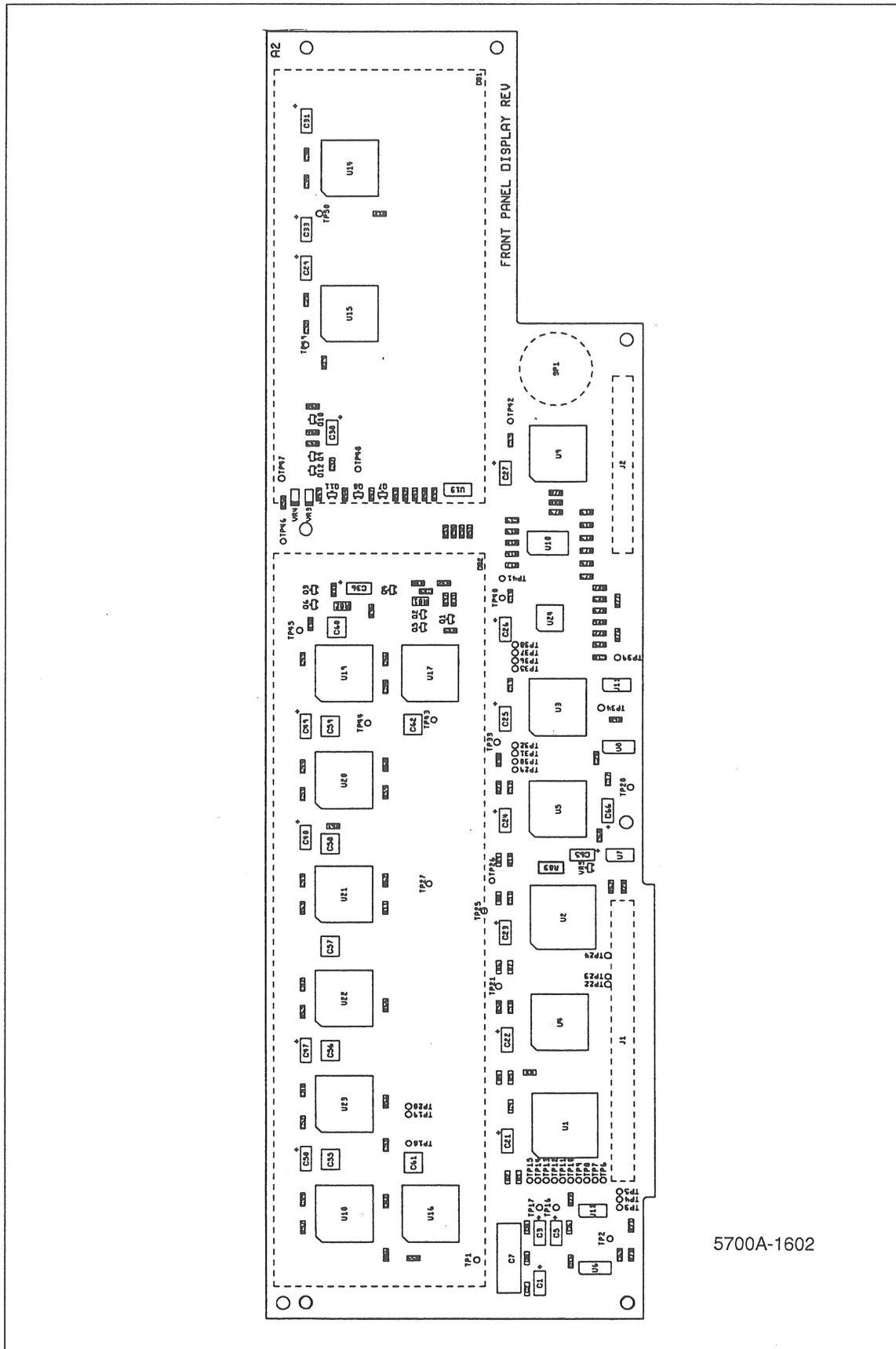


Figure 6-3. A2 Front Panel PCA

Table 6-4. A3 Analog Motherboard PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1	CAP, POLYES, 0.1UF, +-10%, 50V	649913	60935	185-2/0.1/K/0050/RAB	1	
C 2	CAP, CER, 1000PF, +-20%, 50V, X7R	697458	89536	697458	1	
C 3	CAP, TA, 1UF, +-20%, 35V	697417	56289	199D105X0035AA1	1	
C 4	CAP, TA, 4.7UF, +-20%, 25V	807644	56289	199D475X0025BA1	1	
C 5	CAP, POLYES, 0.47UF, +-10%, 50V	697409	60935	185-2/0.47K0050RAB	1	
CR 1, 2	DIODE, SI, BV=75V, IO=150MA, 500MW	203323	07910	1N4448	2	
H 1, 2	SCREW, MACH, PH, P, STL, 6-32X0.250	152140		COMMERCIAL	2	
H 3- 5	CABLE ACCESS, TIE, 4.00L, .10W, .75 DIA	172080	06383	SST-1M	3	
J 71	FIBER OPTIC, RECEIVER, 1MBD	822148	28480	HFBR-2522	1	
J 72	FIBER OPTIC, TRANSMITTER, 1MBD	822155	28480	HFBR-1521/1522	1	
J 101, 111, 201, J 202, 211, 212, J 301, 302, 311, J 312, 401, 402, J 501, 502, 511, J 512, 601, 602, J 611, 612, 701, J 702, 801, 802, J 901, 902	CONN, DIN41612, TYPE C, 64 SCKT	807818 807818 807818 807818 807818 807818 807818 807818	28213	7364-60D3TB	26	
J 811, 812, 821, J 822	SOCKET, 1 ROW, PWB, .156CTR, 10 POS	851183 851183	27264	26-01-1108	4	
K 1- 3	RELAY, ARMATURE, 2 FORM C, 4.5VDC	783746	77342	R10-E6297-3	3	
K 4, 5, 9, K 10	RELAY, REED, 1 FORM A, 5VDC	806950 806950	71707	7003-5065	4	
K 6- 8, 11	RELAY, ARMATURE, 2 FORM C, 5V	733063	33297	MR602-5SR	4	
K 12	RELAY, REED, 1 FORM B, 5VDC	845164	71707	7004-5071	1	
K 13	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307	61529	DS2EML2DC5VH284	1	
MP 3- 54	RIVET, S-TUB, OVAL, STL, .087, .250	838482		COMMERCIAL	52	
MP 55, 56	SPACER, BROACH, RND, STL, 6-32, .375	414508	24347	KFE-632-12-ZC	2	
MP 57- 61	INSERT, STANDOFF, BROACH, SNAP-TOP, 0.250	820613	24347	KSSA-156-8	5	
MP 62- 66	CLAMP, CABLE, ADHESIVE, NYLON, .125	854273	06915	HUC-2	5	
MP 101-128	CONN ACC, DIN41612, KEY	832733	28213	3435-1	28	
R 1	RES, CF, 75, +-5%, 0.25W	441642	59124	CF1-4750JB	1	
R 2	RES, CF, 91, +-5%, 0.25W	441683	59124	CF1-4910J	1	
RV 1	VARISTOR, 22V, +-20%, 1.0MA	500777	89536	500777	1	
W 1	CABLE, FRONT/REAR	802835	89536	802835	1	
W 2	CABLE ASSY, MOTHERBOARD BUS, FRONT	859926	89536	859926	1	
W 3	CABLE ASSY, MOTHERBOARD BUS, REAR	859934	89536	859934	1	
W 8	CABLE, KEYBOARD/REAR PANEL	802710	89536	802710	1	
W 11	CABLE, BOOST	802744	89536	802744	1	
XK 1- 3	RELAY SOCKET, 4 POLE	441964	77342	27E606	3	
NOTES:	† Static sensitive part.					

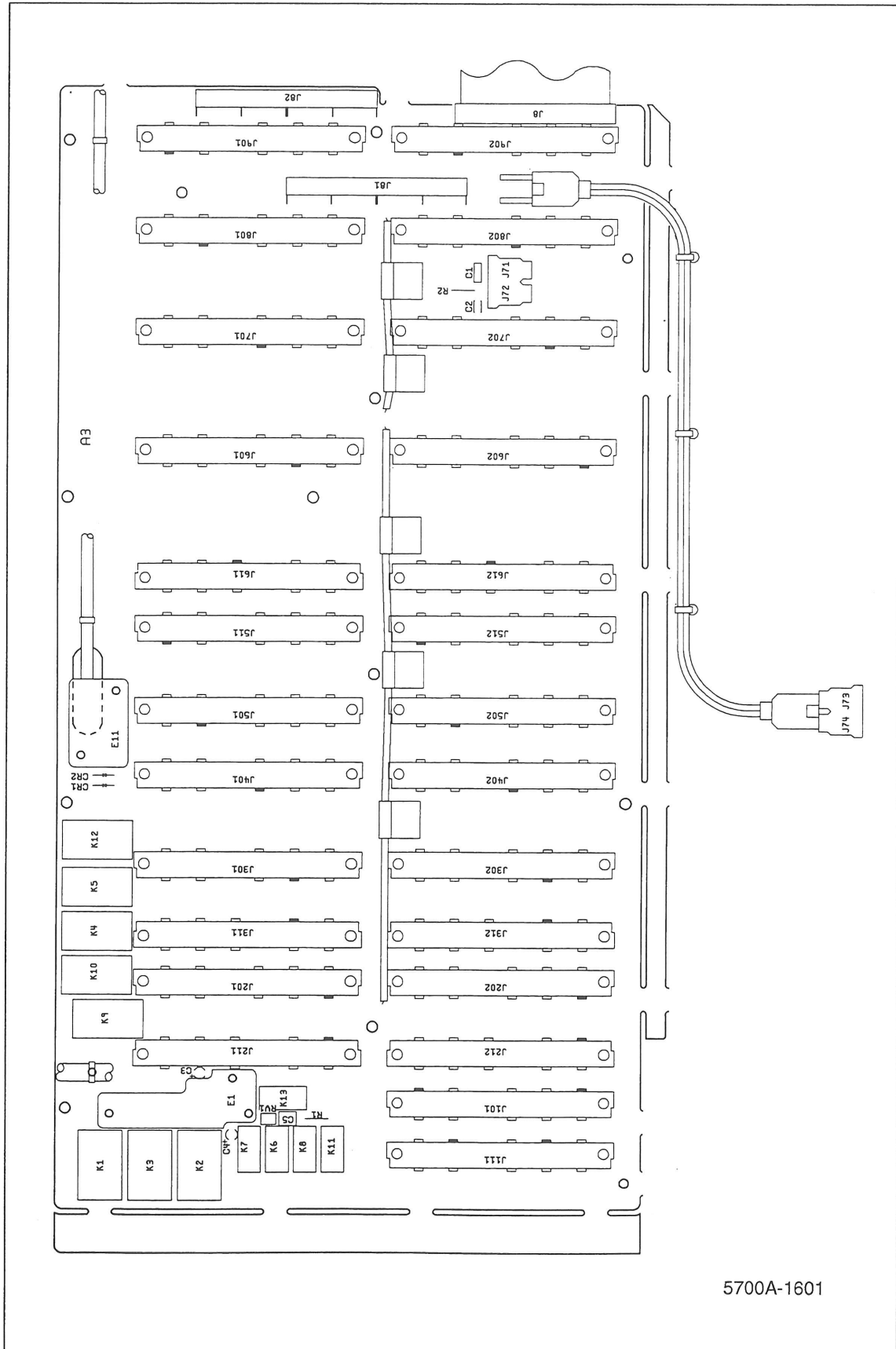


Figure 6-4. A3 Analog Motherboard PCA

Table 6-5. A4 Digital Motherboard PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1, 4	CAP, TA, 10UF, +-20%, 35V	816512	56289	199D106X9035DA1	2	
C 2	CAP, CER, 1000PF, +-20%, 50V, X7R	697458	89536	697458	1	
C 3	CAP, POLYES, 0.1UF, +-10%, 50V	649913	60935	185-2/0.1/K/0050/RAB	1	
C 5	CAP, POLYES, 0.1UF, +-20%, 250VAC	542233	60935	158.00-0.10UF-250VAC	1	
C 6	CAP, CER, 6800PF, +-5%, 100V, C0G	816710	04222	SR211A682JAA	1	
CR 3, 4	DIODE, SI, 100 PIV, 1.0 AMP	698555	04713	IN4002RL	2	
F 1	FUSE, .25X1.25, 3A, 250V, SLOW	109280	71400	MDL-3	1	1
H 8- 14	CABLE ACCESS, TIE, 4.00L, .10W, .75 DIA	172080	06383	SST-1M	7	
H 19, 20	SCREW, MACH, PH, P, STL, M3X6	149567		COMMERCIAL	2	
H 21, 22	WASHER, FLAT, STL, .093, .219, .020	306415		COMMERCIAL	2	
J 11	HEADER, 1 ROW, .156CTR, 12 PIN	831354	00779	1-640388-2	1	
J 13	HEADER, 1 ROW, .156CTR, 10 PIN	446724	00779	1-640388-0	1	
J 14	HEADER, 1 ROW, .156CTR, 16 PIN	831370	00779	1-640388-6	1	
J 15	HEADER, 1 ROW, .156CTR, 14 PIN	831362	00779	1-640388-4	1	
J 16	HEADER, 1 ROW, .156CTR, 8 PIN	385435	00779	1-640388-8	1	
J 21	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	853437	00779	533205-2	1	
J 31	HEADER, 1 ROW, .156CTR, RT ANG, 5 PIN	844717	27264	26-48-1056	1	
J 51, 52, 41	HEADER, 1 ROW, .100CTR, 3 PIN	845334	00779	640456-3	3	
J 61, 62	CONN, DIN41612, TYPE C, 64 SCKT	807818	28213	7364-60D3TB	2	
J 73	FIBER OPTIC, TRANSMITTER, 1MBD	822155	28480	HFBR-1521/1522	1	
J 74	FIBER OPTIC, RECEIVER, 1MBD	822148	28480	HFBR-2522	1	
J 91	HEADER, 2 ROW, .100CTR, 34 PIN	851696	59730	501-3437ES	1	
MP 1	HLD R PART, FUSE, BODY, PWB MT	602763	61935	FAU031.3573	1	
MP 2	HLD R PART, FUSE, CAP, 1/4X1-1/4	460238	61935	031.1666	1	
MP 3- 12	RIVET, S-TUB, OVAL, STL, .087, .250	838482		COMMERCIAL	10	
MP 16	BRACKET, POWER SWITCH	885710	89536	885710	1	
MP 17, 18, 20	SPACER, SWAGED, RND, BR, .177ID, .093	837864	55566	3076C177B16MODL=.093	3	
MP 21	SWITCH PART, FLEX LINKAGE, 396MM	836478	7Z884	SWWR-S-001	1	
MP 22, 23	FOOT, ADHESIVE, RUBBER, GREY, .44X.20	358341	28213	SJ-5003	2	
MP 24, 25, 26	SPACER, BROACH, SNAP, AL, .187	820639	46384	YA7-6359	3	
P 81, 82	HEADER, 1 ROW, .156CTR, 20 PIN	831222	55322	SEP10825-02	2	
R 1	RES, CF, 91, +-5%, 0.25W	441683	80031	1-4-5P91E	1	
R 2, 3	RES, WW, 2, +-1%, .7W	255646	54343	UT-1A	2	
R 4	RES, CF, 68, +-5%, 0.25W	414532	59124	CF1-4680J	1	
RV 1	VARISTOR, 22V, +-20%, 1.0MA	500777	89536	500777	1	
RV 2	VARISTOR, 430V, +-10%, 1.0MA	519355	09214	V275LA15AS14K275	1	
SW 1	SWITCH PART, SWITCH, DPST	886697	31918	FN01NEETBN4101BAG	1	
SW 2- 4	SWITCH, SLIDE, DPDT, LINE SELECT, RT ANG	817353	10389	18-514-0003W/WHITEDOT	3	
W 15	CABLE, FIBER OPTIC	802769	89536	802769	1	
W 90	CABLE, REAR PANEL-CPU	802728	89536	802728	1	
NOTES:	† Static sensitive part. 1. Fuse PN 109280 is for 100-120 volt configuration. For 200-230 volt configuration order PN 109231					

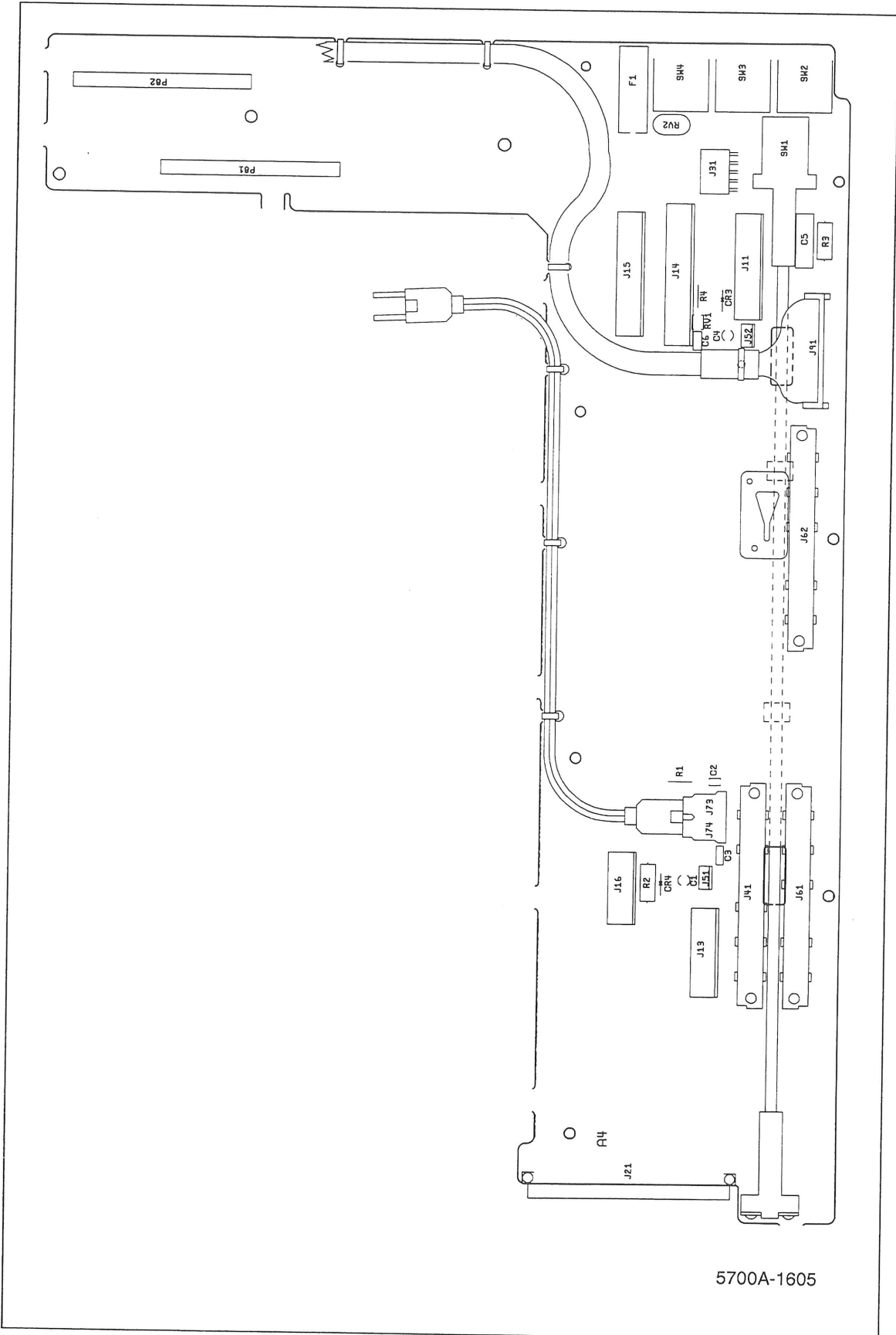


Figure 6-5. A4 Digital Motherboard PCA

Table 6-6. A5 Wideband Output PCA, Option -03

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1	CAP, CER, 4.7PF, +-0.25PF, 50V, COG	721837	51406	RPE122C0G479K50V	1	
C 2	CAP, CER, 22PF, +-2%, 50V, COG	714832	04222	SR595A220GAT	1	
C 3	CAP, POLYES, 0.047UF, +-10%, 50V	820548	60935	185-2/473K0050RAB	1	
C 4, 11- 13, C 66	CAP, CER, 100PF, +-5%, 50V, COG	831495 831495	04222	SR225A101JAT	5	
C 5	CAP, CER, 470PF, +-10%, 50V, COG	733071	04222	SR215A471KAT	1	
C 6, 52, 53, C 79	CAP, POLYES, 0.033UF, +-10%, 50V	715276 715276	60935	185-2/333K0050RAB	4	
C 7, 10, 15, C 23, 81	CAP, POLYES, 0.47UF, +-10%, 50V	697409 697409	84411	J1320R47MF10PCT50V	5	
C 8, 9, 25, C 27- 29, 33- C 37, 45- 51, C 55- 63, 72- C 76, 80	CAP, POLYES, 0.1UF, +-10%, 50V	649913 649913 649913 649913	60935	185-2/0.1K0050RAB	33	
C 14	CAP, POLYES, 0.22UF, +-5%, 50V	747519	60935	185.22/J0050RCB	1	
C 16- 18, 21, C 26, 39- 44	CAP, TA, 4.7UF, +-20%, 25V	807644 807644	56289	199D475X0025BA1	11	
C 19, 77, 78	CAP, POLYES, 0.001UF, +-10%, 50V	720938	60935	185/.001K0050RAB	3	
C 20, 22	CAP, CER, 33PF, +-5%, 50V, COG	714543	04222	SR215A330JAT	2	
C 38	CAP, CER, 5.6PF, +-0.25PF, 100V, COH	512954	51406	RPE110COG5R6C1	1	
C 64, 65	CAP, POLYES, 1UF, +-10%, 50V	733089	60935	185/1.00K0050RGB	2	
C 67	CAP, CER, 33PF, +-2%, 50V, COG	715292	04222	SR215A330GAT	1	
C 68	CAP, CER, 18PF, +-2%, 100V, COG	830638	04222	SR211A180GAT	1	
C 82	CAP, AL, 47UF, +-20%, 16V, SOLV PROOF	643304	62643	LR16VB470M6X0LLV	1	
C 83	CAP, CER, 270PF, +-5%, 50V, COG	658898	04222	SR215A271JAT	1	
CP 1	ADAPTER, BNC (F), BANANA PLUG (M)	528802	05276	1269	1	
CP 2	ADAPTOR, COAX, BNC (M), N (F)	756775	91836	KN-9409	1	
CR 1- 4, 6, CR 7	DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516 659516	03508	1N4448	6	
CR 5	DIODE, SI, N-JFET, CURRENT REG, IF=5.3 MA	852116	17856	J9010-TR3	1	
E 1, 2	COPPER, TIN, BUS, 22 AWG, PREPPED .2" LS	115469	89536	115469	2	
E 3	JUMPER, REC, 2 POS, .100CTR, .025 SQ POST	757294	00779	850108-1	1	
H 7- 9	SCREW, MACH, PH, P, STL, 6-32, .500	152173		COMMERCIAL	4	
H 10- 19	SPACER, TRANSISTOR MOUNT, DAP, TO-5	152207	07047	10123-DAP	10	
J 1, 2	CONN, COAX, SMB (M), PWB, RT ANG	353243	98291	051-053-0000-220	2	
J 3	HEADER, 1 ROW, .100CTR, 2 PIN	643916	22526	65500-102	1	
K 1, 11	RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078	61529	DS4EML2DC5VCH239	2	
K 2, 3, 9, K 10, 12	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307 769307	61529	DS2EML2DC5VH284	5	
K 4- 8	RELAY, ARMATURE, 2 FORM C, 5VDC	806810	11532	432-7478	5	
L 1- 6, 18	CHOKE, 6TURN	320911	89536	320911	7	
L 19	INDUCTOR, 100UH, +-10%, 12MHZ, SHLD	249102	24759	MR-100	1	
L 20- 22	INDUCTOR, 220UH, +-5%, 9.4MHZ, SHLD	147835	24759	MR-220	3	
L 23	CORE, TOROID, FERRITE, .047X.138X.118	321182	02114	56-590-65-4B	1	
M 2	SHIELD, WIDEBAND OUTPUT, REAR	764498	89536	764498	1	
M 3	SHIELD, WIDEBAND AMP, FRONT	775643	89536	775643	1	
M 4	SHIELD, WB OUTPUT, ATTENUATOR, REAR	775650	89536	775650	1	
M 5	SHIELD, WB OUTPUT, ATTENUATOR, FRONT	775668	89536	775668	1	
MP 1	TERMINATION, COAX, N (M), N (F), 50 OHM	853429	0GZV8	6701.17.A	1	
MP 2, 3	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	2	
MP 4, 5	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 6, 25- 34	SCREW, MACH, PH, P, STL, 6-32X0.250	152140		COMMERCIAL	11	
MP 10- 14	RELAY WASHER	803247	89536	803247	5	
MP 15- 24	HEAT DIS, PRESS ON, TO-5	418384	13103	2225B	10	
P 111	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	1	

Table 6-6. A5 Wideband Output PCA, Option -03 (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
Q 1	TRANSISTOR, SI, NPN, SMALL SIGNAL	698241	04713	2N4401RLRA2	1	
Q 2, 3	TRANSISTOR, SI, N-DMOS FET, TO-72	394122	18324	SD210EE	2	
Q 4- 6	TRANSISTOR, SI, NPN, HI-FREQ, SMALL SIGNAL	659417	04713	BFR96	3	
Q 7, 8	TRANSISTOR, SI, PNP, SMALL SIG, RF, TO-39	800201	04713	2N5583	2	
Q 9, 10, 14- Q 16	TRANSISTOR, SI, NPN, HI-FREQ, TO-39	912522 912522	04713	MRF544	5	
Q 11- 13	TRANSISTOR, SI, PNP, 70V, 400MA, TO-39	866769	04713	MRF545	3	
Q 17	TRANSISTOR, SI, N-JFET, TO-92	816314	17856	J2864TR	1	
Q 18	TRANSISTOR, SI, N-DMOS PWR FET, TO-92	782565	59640	VN0104N3	1	
R 1	RES, MF, 866, +-1%, 0.125W, 50PPM	320390	91637	CMF558660F T-1	1	
R 2	RES, MF, 200, +-1%, 0.125W, 100PPM	245340	91637	CMF552000F T-1	1	
R 3	RES, MF, 412K, +-1%, 0.125W, 50PPM	714287	59124	MF50CVT4123F	1	
R 7, 8	RES, MF, 698K, +-1%, 0.125W, 100PPM	757252	59124	MF50DVT6983F	2	
R 9, 24, 27, R 42, 102	RES, CF, 20K, +-5%, 0.25W	697110 697110	59124	CF1-4VT203JB	5	
R 10	RES, CF, 3M, +-5%, 0.25W	746172	59124	CF1-4VT305J	1	
R 11	RES, MF, 20.5K, +-1%, 0.125W, 100PPM	655233	59124	MF50DVT2052F	1	
R 12, 111-113	RES, CF, 2K, +-5%, 0.25W	810457	59124	CF1-4VT202J	4	
R 13	RES, MF, 14.3K, +-1%, 0.125W, 100PPM	721803	59124	MF50DVT1432F	1	
R 14, 28, 114	RES, MF, 10K, +-1%, 0.125W, 100PPM	658914	59124	MF50DVT1002F	3	
R 15, 38	RES, CF, 3K, +-5%, 0.25W	810366	59124	CF1-4VT302J	2	
R 16	RES, CF, 620, +-5%, 0.25W	810408	59124	CF1-4VT621J	1	
R 17	RES, MF, 866, +-1%, 0.125W, 50PPM	816603	59124	MF50CVT8660F	1	
R 18	RES, MF, 200, +-1%, 0.125W, 100PPM	820282	59124	MF50DVT2000F	1	
R 19	RES, CF, 12K, +-5%, 0.25W	757799	59124	CF1-4VT123J	1	
R 20, 31	RES, CF, 4.7K, +-5%, 0.25W	721571	59124	CF1-4VT472J	2	
R 21, 104	RES, MF, 10.5K, +-1%, 0.125W, 100PPM	816611	59124	MF50DVT1052F	2	
R 22, 35	RES, CF, 9.1K, +-5%, 0.25W	706663	59124	CF1-4VT912J	2	
R 23	RES, CF, 1M, +-5%, 0.25W	649970	59124	CF1-4VT105J	1	
R 25	RES, MF, 205K, +-1%, 0.125W, 100PPM	706234	59124	MF50DVT2053F	1	
R 26	RES, CF, 43K, +-5%, 0.25W	821777	59124	CF1-4VT433J	1	
R 29, 121	RES, MF, 56.2K, +-1%, 0.125W, 100PPM	706242	59124	MF50DVT5622F	2	
R 30, 103, 105, R 106	RES, CF, 150K, +-5%, 0.25W	758219 758219	59124	CF1-4VT154J	4	
R 32, 63	RES, CF, 10K, +-5%, 0.25W	697102	59124	CF1-4VT103J	2	
R 33	RES, CF, 22K, +-5%, 0.25W	747535	59124	CF1-4VT223J	1	
R 34	RES, CF, 24K, +-5%, 0.25W	697599	59124	CF1-4VT243J	1	
R 36, 40, 45, R 62	RES, CF, 1K, +-5%, 0.25W	780585 780585	59124	CF1-4VT102J	4	
R 37	RES, MF, 210, +-1%, 0.125W, 100PPM	327999	91637	CMF552100F T-1	1	
R 39	RES, CF, 16K, +-5%, 0.25W	714303	59124	CF1-4VT163J	1	
R 41	RES, CF, 180K, +-5%, 0.25W	573626	59124	CF1-4181J	1	
R 43, 44	RES, MF, 100, +-0.1%, 0.125W, 25PPM	357400	91637	CMF551000B T-9	2	
R 46	RES, MF, 1.74K, +-1%, 0.125W, 100PPM	344358	91637	CMF551741F T-1	1	
R 47	RES, MF, 1K, +-1%, 0.125W, 100PPM	719468	91637	CMF551001F T-1	1	
R 48, 49, 51, R 55, 61, 65, R 71, 76, 77, R 84, 85, 90, R 91	RES, CF, 51, +-5%, 0.25W	572990 572990 572990 572990 572990	59124	CF1-4510JB	13	
R 50	RES, MF, 499, +-1%, 0.125W, 100PPM	816462	91637	CMF554990F T-1	1	
R 52	RES, MF, 150, +-1%, 0.125W, 100PPM	719674	91637	CMF551500F T-1	1	
R 53	RES, MF, 402, +-1%, 0.125W, 100PPM	720201	91637	CMF554020F T-1	1	
R 54	RES, MF, 576, +-1%, 0.125W, 100PPM	294843	91637	CMF555760F T-1	1	
R 56, 57	RES, MF, 80.6, +-1%, 0.5W, 100PPM	158790	91637	CMF6580R6F T-1	2	

Table 6-6. A5 Wideband Output PCA, Option -03 (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
R 58, 59	RES, MF, 75, +-1%, 0.5W, 100PPM	150870	91637	CMF6575R0F T-1	2	
R 64	RES, MF, 806, +-1%, 0.6W, 50PPM	851944	91637	CPF-18060F T-2	1	
R 66	RES, MF, 49.9, +-1%, 0.125W, 100PPM	720318	59124	CMF5549R9F T-1	1	
R 67, 68	RES, MF, 21, +-1%, 0.125W, 100PPM	296632	91637	CMF5521R0F T-1	2	
R 69, 70	RES, MF, 249, +-1%, 0.5W, 100PPM	241281	91637	CMF652490F T-1	2	
R 72, 73	RES, MF, 909, +-1%, 0.5W, 100PPM	178053	91637	CMF659090F T-1	2	
R 74	RES, CF, 20K, +-5%, 0.25W	573444	59124	CF1-4203J	1	
R 75	RES, MF, 10K, +-1%, 0.125W, 100PPM	719476	91637	CMF551002F T-1	1	
R 78, 79, 86-89	RES, MF, 12.7, +-1%, 0.125W, 100PPM	441766 441766	91637	CMF5512R7F T-1	6	
R 80- 83	RES, MF, 909, +-1%, 0.5W, 100PPM	178053	91637	CMF659090F T-1	4	
R 92- 95	RES, MF, 75, +-1%, 0.125W, 100PPM	306027	91637	CMF5575R0F T-1	4	
R 96- 99	RES, MF, 187, +-0.1%, 0.5W, 25PPM	807750	91637	CMF651870B T-9	4	
R 100	RES, MF, 1.21K, +-1%, 0.125W, 100PPM	719559	91637	CMF551211F T-1	1	
R 101	RES, MF, 1.43K, +-1%, 0.125W, 25PPM	447995	91637	CMF551431F T-9	1	
R 107	RES, CF, 100, +-5%, 0.25W	810465	59124	CF1-4VT101J	1	
R 108	RES, MF, 49.9, +-1%, 0.125W, 100PPM	820266	59124	MF50DVT4992F	1	
R 109	RES, MF, 2.15K, +-1%, 0.125W, 50PPM	347039	91637	CMF552151F T-1	1	
R 110	RES, MF, 1K, +-0.1%, 0.125W, 25PPM	340380	91637	CMF551001B T-9	1	
R 115	RES, CF, 200K, +-5%, 0.25W	573634	59124	CF1-4204JB	1	
R 116	RES, MF, 2K, +-1%, 0.125W, 100PPM	816629	59124	MF50DVT2001F	1	
R 117	RES, MF, 1.69K, +-1%, 0.125W, 100PPM	321414	91637	CMF551691F T-1	1	
R 118	RES, CF, 1.5K, +-5%, 0.25W	810432	59124	CF1-4VT152J	1	
R 119	RES, MF, 8.06K, +-1%, 0.125W, 100PPM	817619	59124	MF50DVT8061F	1	
R 120	RES, MF, 124, +-1%, 0.125W, 100PPM	343905	91637	CMF551240F T-1	1	
R 122	RES, MF, 4.99K, +-1%, 0.125W, 100PPM	721548	59124	MF55D4991F	1	
R 123-128	RES, CF, 10, +-5%, 0.25W	807669	59124	CF1-4VT100J	6	
TP 1- 19	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	19	
U 1	⚡ RMS CONVERTER TESTED 400 OHM-B GRADE	767707	89536	767707	1	
U 2, 11, 12	⚡ IC, OP AMP, DUAL, LO OFFST VOLT, LO-DRIFT	851704	27014	LF412ACN	3	
U 3	⚡ IC, ARRAY, 5 TRANS, NPN, 3 ISO, 2 DIFF CON	248906	04713	MC3346P	1	
U 4	⚡ IC, COMPARATOR, DUAL, LO-PWR, 8 PIN DIP	478354	27014	LM393N	1	
U 5	⚡ IC, OP AMP, LO-OFFSET VOLTAGE, LO-NOISE	605980	06665	OP-07DP	1	
U 6	⚡ IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	1	
U 7	⚡ IC, CMOS, PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1	
U 8	⚡ IC, CMOS, 8-1 LINE MUX/DEMUX ANALOG SW	836304	04713	MM74HC4051N	1	
U 9, 10	⚡ IC, BIMOS, 4 CHNL HI-VOLT DRVR W/LATCH	820514	56289	UCN-5800A	2	
VR 1	⚡ ZENER, UNCOMP, 9.1V, 5%, 5MA, 0.350W	853788	04713	1N5239BRR1	1	
VR 2	⚡ ZENER, COMP, 6.4V, 2%, 2 PPM TC, 1.0MA	419036	04713	SZG20287	1	
VR 3	⚡ ZENER, UNCOMP, 16.0V, 5%, 15.5MA, 1.0W	313221	04713	1N4745ARL	1	
VR 4	⚡ ZENER, UNCOMP, 5.6V, 5%, 20MA, 0.5W	820464	04713	1N5232BRR1	1	
W 1	CABLE, WIDEBAND OUTPUT INTERCONNECT	802876	89536	802876	1	
W 2	CABLE ASSY, 50 OHM, COAX, N(M), 3FT	853432	0GZV8	RG58C/U.36IN, 2X1INL-50	1	
Z 1	⚡ RES, NET, THK F, 10DB/20DB ATTENUATOR	760728	89536	760728	1	
Z 2	⚡ RES, NET, THK F, 20DB/20DB ATTENUATOR	760769	89536	760769	1	
NOTES:	⚡ Static sensitive part.					

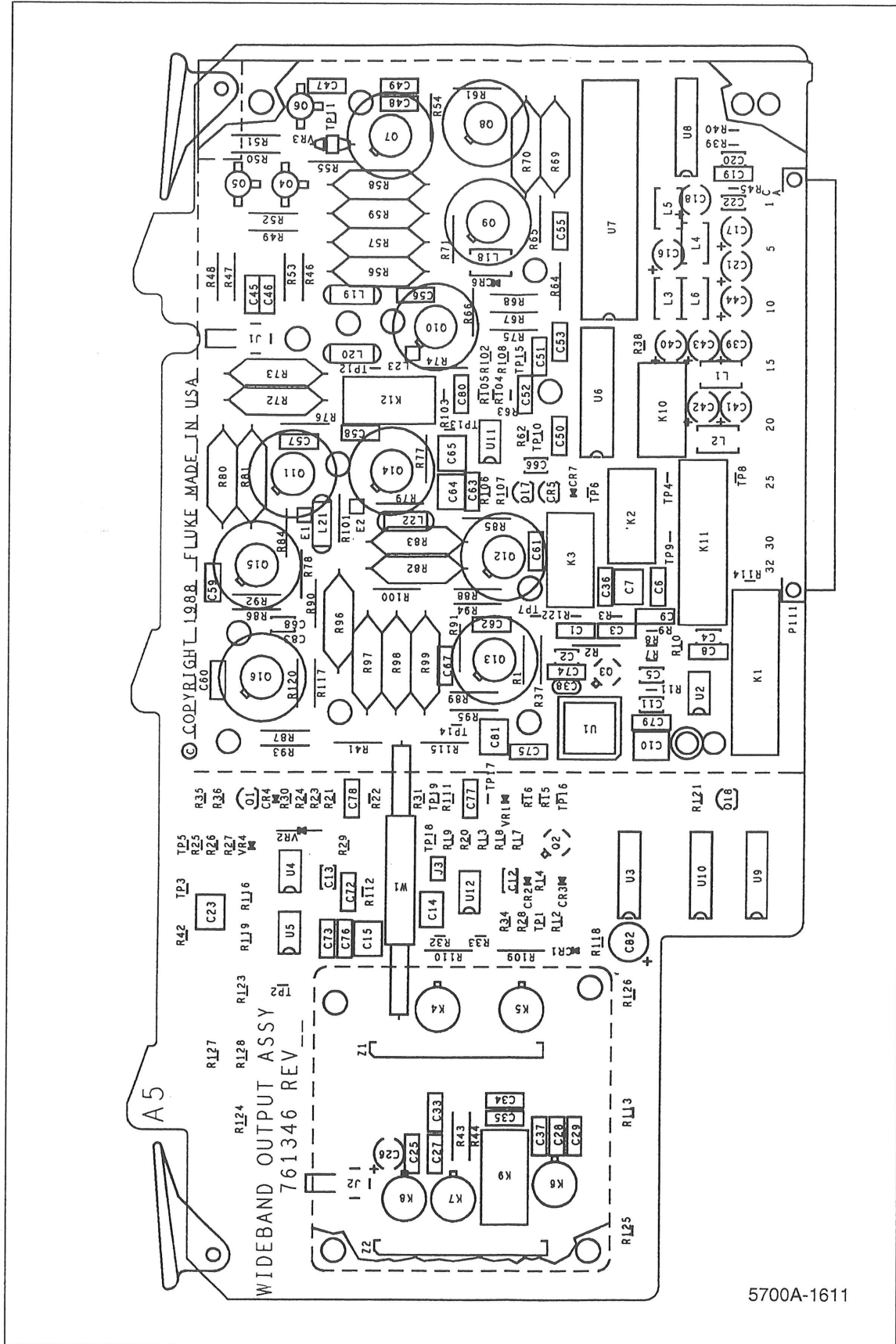


Figure 6-6. A5 Wideband Output PCA, Option -03

Table 6-7. A6 Wideband Oscillator PCA, Option -03

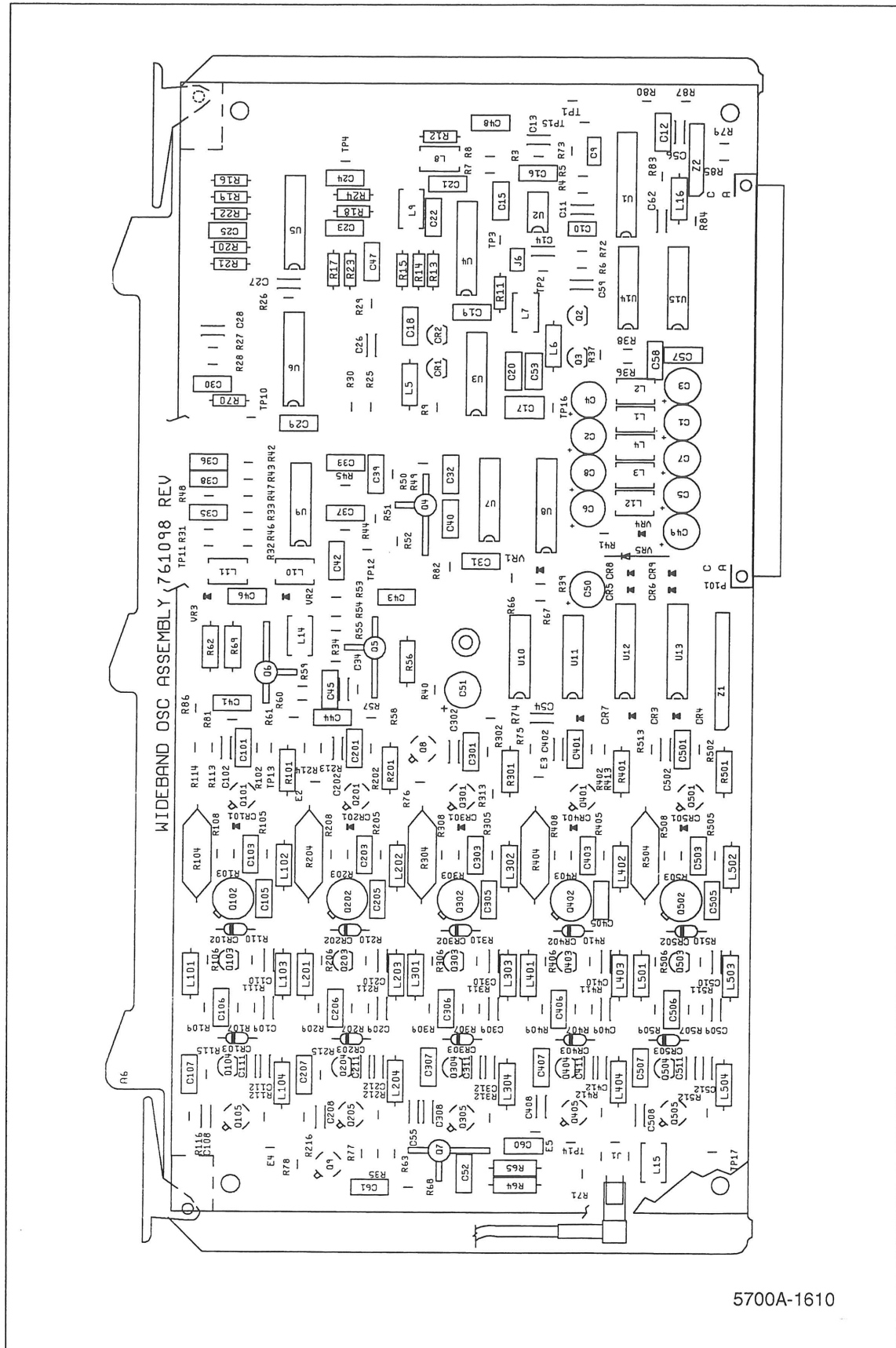
REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1- 8, 49- C 51	CAP, TA, 4.7UF, +-20%, 25V	807644 807644	56289	199D475X0025BA1	11	
C 9, 10	CAP, CER, 2700PF, +-5%, 50V, COG	832303	04222	SR595A272JAT	2	
C 11	CAP, CER, 15PF, +-20%, 50V, COG	697524	04222	SR215A150MAT	1	
C 12, 15, 16, C 18- 25, 29- C 33, 35- 48, C 52, 57, 58, C 60, 61, 101, C 103, 105-107, C 201, 203, 205- C 207, 301, 303, C 305-307, 401, C 403, 405-407, C 501, 503, 505- C 507	CAP, POLYES, 0.1UF, +-10%, 50V	649913 649913 649913 649913 649913 649913 649913 649913 649913 649913 649913	60935	185-2/0.1K0050RAB	60	
C 13, 14	CAP, CER, 0.047UF, +-10%, 100V, X7R	844733	04222	SR591C473KAATR1A	2	
C 17	CAP, POLYES, 0.22UF, +-10%, 50V	706028	60935	185-2/.22K0050RAB	1	
C 26- 28	CAP, CER, 0.01UF, +-10%, 100V, X7R	557587	04222	SR21C103MAT	3	
C 34, 209-212	CAP, CER, 82PF, +-2%, 50V, COG	714857	04222	SR595A820GAT	5	
C 53	CAP, CER, 6800PF, +-5%, 50V, COG	542894	04222	SR215A682JAT	1	
C 54, 55, 102, C 108, 202, 208, C 302, 308, 402, C 408, 502, 508	CAP, POLYES, 0.001UF, +-10%, 50V	720938 720938 720938 720938	60935	185/.001/K0050RAB	12	
C 56, 59	CAP, CER, 33PF, +-5%, 50V, COG	714543	04222	SR215A330JAT	2	
C 62, 409-412	CAP, CER, 390PF, +-2%, 50V, COG	820530	04222	SR215A391GAT	5	
C 109-112	CAP, CER, 47PF, +-2%, 100V, COG	832295	04222	SR211A470GAT	4	
C 309-312	CAP, CER, 180PF, +-2%, 50V, COG	820522	04222	SR215A181GAT	4	
C 509-512	CAP, CER, 820PF, +-2%, 50V, COG	631002	04222	SR215A821GAT	4	
CR 1, 2	DIODE, SILICON, VARACTOR, PIV= 28V	598078	04713	MVAM125	2	
CR 3- 9, 101, CR 201, 301, 401, CR 501	DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516 659516 659516	03508	1N4448	12	
CR 102, 103, 202, CR 203, 302, 303, CR 402, 403, 502, CR 503	DIODE, SI, SWITCHING, PIN	334227 334227 334227 334227	96341	MA4P473	10	
E 2- 5	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	16	
E 6	JUMPER, REC, 2 POS, .100CTR, .025 SQ POST	757294	00779	850108-1	1	
H 1- 5	SPACER, TRANSISTOR MOUNT, DAP, TO-5	152207	07047	10123-DAP	5	
H 10	SCREW, PH, P, LOCK, SS, 6-32X0.750	376822	74594	376822	1	
J 1	CONN, COAX, SMB (M), PWB, RT ANG	353243	98291	051-053-0000-220	1	
J 6	HEADER, 1 ROW, .100CTR, 2 PIN	643916	22526	65500-102	1	
L 1- 4, 7- L 12, 14, 15	CHOKER, 6TURN	320911 320911	89536	320911	12	
L 5	INDUCTOR, 0.18UH, +-10%, 400MHZ, SHLD	249060	24759	MR-0.18	1	
L 6	INDUCTOR, 1500UH, +-5%, 2.5MHZ, SHLD	806505	24759	MR-1500	1	
L 16, 102, 104	INDUCTOR, 1UH, +-5%, 156MHZ, SHLD	806562	24759	MR-1	3	
L 101, 503	INDUCTOR, 22UH, +-10%, 38MHZ, SHLD	147843	24759	MR-22	2	
L 103	INDUCTOR, 1.5UH, +-5%, 128MHZ, SHLD	413856	89536	413856	1	
L 201	INDUCTOR, 33UH, +-10%, 33MHZ, SHLD	249086	24759	MR-33	1	
L 202, 204	INDUCTOR, 2.2UH, +-5%, 108MHZ, SHLD	806547	24759	MR-2.2	2	
L 203	INDUCTOR, 3.3UH, +-10%, 88MHZ, SHLD	174714	24759	MR-3.3	1	
L 301	INDUCTOR, 82UH, +-10%, 14MHZ, SHLD	542290	24759	MR-82	1	
L 302, 304	INDUCTOR, 3.9UH, +-5%, 84MHZ, SHLD	413864	24759	MR-3.9	2	
L 303	INDUCTOR, 5.6UH, +-10%, 69MHZ, SHLD	598219	24759	MR-5.6	1	
L 401	INDUCTOR, 120UH, +-5%, 11.2MHZ, SHLD	321042	24759	MR-120	1	
L 402, 404	INDUCTOR, 8.2UH, +-5%, 58MHZ, SHLD	806521	24759	MR-8.2	2	
L 403	INDUCTOR, 12UH, +-5%, 47MHZ, SHLD	820720	24759	MR-12	1	

Table 6-7. A6 Wideband Oscillator PCA, Option -03 (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
L 501	INDUCTOR, 220UH, +-5%, 9.4MHZ, SHLD	147835	24759	MR-220	1	
L 502, 504	INDUCTOR, 15UH, +-5%, 41MHZ, SHLD	806513	24759	MR-15	2	
MP 1	SHIELD, WIDEBAND OSCILLATOR, FRONT	775478	89536	775478	1	
MP 2	SHIELD, WIDEBAND OSCILLATOR, REAR	775486	89536	775486	1	
MP 5, 11, 12	CABLE ACCESSORY, CLAMP, ADHESIVE, NYLON	838300	06915	MWSSEB-1-01A	3	
MP 6, 7	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	2	
MP 8, 9	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 10	75 OHM RF CABLE	761304	89536	761304	1	
F 101	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	1	
Q 2, 3	TRANSISTOR, SI, NPN, SMALL SIGNAL	698241	04713	2N4401RLRA2	2	
Q 4- 7	TRANSISTOR, SI, NPN, HI-FREQ, SMALL SIGNAL	659417	04713	BFR96	4	
Q 8, 9, 101,	TRANSISTOR, SI, N-DMOS FET, TO-72	394122	18324	SD210EE	12	
Q 105, 201, 205,		394122				
Q 301, 305, 401,		394122				
Q 405, 501, 505		394122				
Q 102, 202, 302,	TRANSISTOR, SI, NPN HI-FREQ, TO-30	912522	04713	MRF544/5	5	
Q 402, 502		272930				
Q 103, 104, 203,	TRANSISTOR, SI, NPN, SMALL SIGNAL	820407	04713	MPS6544RLRA	10	
Q 204, 303, 304,		820407				
Q 403, 404, 503,		820407				
Q 504		820407				
R 3	RES, CF, 300K, +-5%, 0.25W	732818	59124	CF1-4VT304J	1	
R 4, 5, 39,	RES, CF, 12K, +-5%, 0.25W	757799	59124	CF1-4VT123J	4	
R 41		757799				
R 6, 87	RES, CF, 100, +-5%, 0.25W	810465	59124	CF1-4VT101J	2	
R 7	RES, CF, 9.1K, +-5%, 0.25W	706663	59124	CF1-4VT912J	1	
R 8, 25- 27,	RES, CF, 1K, +-5%, 0.25W	780585	59124	CF1-4VT102J	11	
R 38, 52, 66,		780585				
R 67, 79, 80,		780585				
R 83		780585				
R 9	RES, CF, 20K, +-5%, 0.25W	697110	59124	CF1-4VT203J	1	
R 11, 12, 15-	RES, CF, 51, +-5%, 0.25W	572990	59124	CF1-4510JB	8	
R 18, 21, 22		572990				
R 13, 14, 19,	RES, CF, 270, +-5%, 0.25W	573071	59124	CF1-4271JB	7	
R 20, 23, 24,		573071				
R 70		573071				
R 28- 30, 36,	RES, CF, 2K, +-5%, 0.25W	810457	59124	CF1-4VT202J	5	
R 81		810457				
R 31	RES, MF, 7.32K, +-1%, 0.125W, 100PPM	853630	59124	MF50DVT7321B	1	
R 32, 53	RES, MF, 1K, +-1%, 0.125W, 100PPM	816595	59124	MF50DVT1001F	2	
R 33, 42, 43,	RES, MF, 49.9, +-1%, 0.125W, 100PPM	820266	59124	MF50DVT4992F	13	
R 46, 50, 54,		820266				
R 60, 86, 103,		820266				
R 203, 303, 403,		820266				
R 503		820266				
R 34, 57	RES, MF, 30.1, +-1%, 0.125W, 100PPM	820563	59124	MF50DVT3012F	2	
R 35, 55	RES, MF, 3.32K, +-1%, 0.125W, 100PPM	817601	59124	MF50DVT3321F	2	
R 37	RES, CF, 3.9K, +-5%, 0.25W	810416	59124	CF1-4VT392J	1	
R 40, 48, 74-	RES, MF, 866, +-1%, 0.125W, 50PPM	816603	59124	MF50CVT8660F	33	
R 78, 102, 110,		816603				
R 111, 113-116,		816603				
R 202, 210, 211,		816603				
R 213-216, 302,		816603				
R 310, 311, 313,		816603				
R 402, 410, 411,		816603				
R 413, 502, 510,		816603				
R 511, 513		816603				
R 44	RES, CF, 4.7K, +-5%, 0.25W	721571	59124	CF1-4VT472J	1	
R 45, 47	RES, MF, 200, +-1%, 0.125W, 100PPM	820282	59124	MF50DVT2000F	2	
R 49	RES, MF, 10K, +-1%, 0.125W, 100PPM	658914	59124	MF50DVT1002F	1	
R 51	RES, MF, 4.99K, +-1%, 0.125W, 100PPM	721548	59124	MF55D4991F	1	
R 56	RES, CC, 330, +-5%, 0.5W	108936	01121	EB3315	1	

Table 6-7. A6 Wideband Oscillator PCA, Option -03 (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
R 58, 112, 212, R 312, 412, 512	RES, MF, 110, +-1%, 0.125W, 100PPM	820571 820571	59124	MF50DVT1100F	6	
R 59	RES, MF, 14.3K, +-1%, 0.125W, 100PPM	721803	59124	MF50D1432F VT	1	
R 61	RES, MF, 2.49K, +-1%, 0.125W, 100PPM	810523	59124	MF50VTD2491F	1	
R 62, 64, 65, R 69	RES, CC, 680, +-5%, 0.5W	178392 178392	01121	EB6815	4	
R 63	RES, CF, 200, +-5%, 0.25W	810390	59124	CF1-4VT201J	1	
R 68	RES, MF, 1.62K, +-1%, 0.125W, 100PPM	772004	59124	MF50DVT1621F	1	
R 71	RES, MF, 75, +-1%, 0.125W, 100PPM	820241	59124	MF50DVT75R0F	1	
R 72, 73	RES, MF, 6.65K, +-0.1%, 0.125W, 100PPM	772558	59124	MF50DVT6651B	2	
R 82	RES, CF, 6.2K, +-5%, 0.25W	714337	59124	CF1-4VT622J	1	
R 84, 85	RES, CF, 240, +-5%, 0.25W	830588	59124	CF1-4VT241J	2	
R 101, 201, 301, R 401, 501	RES, CC, 220, +-5%, 0.5W	186031 186031	01121	EB2215	5	
R 104, 204, 304, R 404, 504	RES, MF, 249, +-1%, 0.5W, 100PPM	241281 241281	91637	CMF65-2490F T-1	5	
R 105, 205, 305, R 405, 505	RES, MF, 100, +-1%, 0.125W, 100PPM	817627 817627	59124	MF50DVT1000F	5	
R 106, 107, 206, R 207, 306, 307, R 406, 407, 506, R 507	RES, CF, 130, +-5%, 0.25W	817593 817593 817593 817593	59124	CF1-4VT131J	10	
R 108, 208, 308, R 408, 508	RES, MF, 523, +-1%, 0.125W, 100PPM	820274 820274	59124	MF50DVT5230F	5	
R 109, 209, 309, R 409, 509	RES, MF, 2.67K, +-1%, 0.125W, 100PPM	820290 820290	59124	MF50DVT2671F	5	
U 1	IC, CMOS, 4-BIT PHASE LCKD LOOP FRQ SYN	799452	04713	MC145145P-1	1	
U 2	IC, OP AMP, JFET INPUT, 8 PIN DIP	472779	27014	LF356N	1	
U 3	IC, ECL, VOLTAGE CONTROLLED OSCILLATOR	454975	04713	MC1648P	1	
U 4	IC, ECL, DUAL D M/S F/F, W/SET&RESET	454959	04713	MC10131P	1	
U 5	IC, ECL, 4-BIT BINARY COUNTER, 125MHZ	799460	04713	MC10154P	1	
U 6	IC, ECL, 8-1 LINE MULTIPLEXER (MUX)	799510	04713	MC10164P	1	
U 7, 10, 11	IC, COMPARATOR, QUAD, 14 PIN DIP	387233	27014	LM339N	3	
U 8	IC, CMOS, BCD-DEC & BIN-OCTAL DCDR	473769	27014	CD4028BCN	1	
U 9	IC, PBLR, MONOLITHIC, DIFF. AMP	783738	34371	CA3102E	1	
U 12, 13	IC, ARRAY, 5 TRANS, NPN, 5 ISOLATED TRANS	380188	34371	CA3183E	2	
U 14	IC, CMOS, QUAD INPUT NOR GATE	811158	04713	MC74HC02N	1	
U 15	IC, COMPARATOR, HI-SPEED, 14 PIN DIP	647115	18324	NE522N	1	
VR 1, 4	ZENER, UNCOMP, 5.1V, 5%, 20.0MA, 0.5W	853700	14552	1N5231B	2	
VR 2, 3	ZENER, UNCOMP, 10.0V, 5%, 20.0MA, 0.5W	820480	65940	1N5240BT-88	2	
VR 5	ZENER, UNCOMP, 6.2V, 5%, 200MA, 5W	806802	04713	1N5341B	1	
Z 1	RES, CERM, SIP, 10 PIN, 9 RES, 10K, +-2%	414003	91637	CSC10A-01-103G	1	
Z 2	RES, CERM, SIP, 6 PIN, 5 RES, 10K, +-2%	500876	91637	CSC06A-01 103G	1	
NOTES:	† Static sensitive part.					



5700A-1610

Figure 6-7. A6 Wideband Oscillator PCA, Option -03

Table 6-8. A7 Current/High-Res Oscillator PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1, 71	CAP, CER, 0.22UF, +80-20%, 50V, Z5U	649939	04222	SR595E2242AA	2	
C 2, 3, 18- C 20, 29, 32- C 35, 47, 48, C 50, 51, 55, C 56	CAP, POLYES, 0.1UF, +-10%, 50V	649913 649913 649913 649913 649913	60935	185-2/0.1K0050RAB	16	
C 4, 5	CAP, CER, 100PF, +-2%, 100V, COG	812115	04222	SR291A101GAA	2	
C 6, 7, 21- C 24, 37, 38, C 40, 43, 52, C 53, 60, 61	CAP, TA, 4.7UF, +-20%, 25V	807644 807644 807644 807644	56289	199D475X0025BA1	14	
C 8	CAP, CER, 18PF, +-2%, 100V, COG	830638	04222	SR211A180GAT	1	
C 9	CAP, CER, 47PF, +-20%, 50V, COG	706705	04222	SR215A470MAT	1	
C 10	CAP, CER, 470PF, +-5%, 50V, COG	830430	04222	SR215A471MAT	1	
C 11	CAP, CER, 4700PF, +-20%, 100V, COG	743427	04222	SR301A472MAT	1	
C 12, 13, 70	CAP, AL, 47UF, +-20%, 50V, SOLV PROOF	822403	62643	KME50VB47RM6X11RP	3	
C 14	CAP, AL, 6.8UF, +-20%, 35V, SOLV PROOF	643189	62643	LR35VB6R8M6X0LLV	1	
C 15	CAP, TA, 2.2UF, +-20%, 16V	706804	56289	199D225X0016AA1	1	
C 16	CAP, CER, 1000PF, +-2%, 50V, COG	807966	04222	SR215A102GAT	1	
C 17, 45, 46, C 54	CAP, CER, 33PF, +-5%, 50V, COG	714543 714543	04222	SR215A330JAT	4	
C 25, 26, 30, C 36, 41, 42, C 49	CAP, POLYES, 0.047UF, +-10%, 50V	820548 820548 820548	60935	185/2473K0050RAB	7	
C 27, 28	CAP, POLYES, 1UF, +-10%, 50V	733089	60935	185/1.00K0050RGB	2	
C 31, 67	CAP, POLYES, 0.22UF, +-5%, 50V	747519	60935	185/.22J0050RCB	2	
C 39	CAP, TA, 22UF, +-20%, 25V	845149	56289	199D226X0025DG2	1	
C 44	CAP, CER, 15PF, +-20%, 50V, COG	697524	04222	SR215A150MAT	1	
C 59	CAP, CER, 390PF, +-2%, 50V, COG	820530	04222	SR215A391GAT	1	
C 62	CAP, CER, 820PF, +-2%, 50V, COG	631002	04222	SR595A821GAA	1	
C 65, 66	CAP, CER, 82PF, +-2%, 100V, COG	512350	04222	SR291A820GATR	2	
C 68	CAP, CER, 150PF, +-2%, 100V, COG	512988	05397	C315C11J1G5EA	1	
C 69	CAP, CER, 27PF, +-2%, 100V, COG	816652	89536	816652	1	
CR 1, 2, 10, CR 11	† DIODE, SI, BV=125.0V, IO=150MA, 500 MW	844647 844647	07263	FDH300	4	
CR 3, 4	† DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516	03508	1N4448	2	
CR 9	DIODE, SILICON, VARACTOR, PIV= 28V	598078	04713	MVAM125	1	
CR 12, 13	DIODE, SI, BV=200V, IO=200MA	876867	07263	FDH400	2	
E 1, 2	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	1SOT1	20	
H 1- 4	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
HR 2	† RN/HYBRID CURRENT HYBRID	775387	89536	775387	1	
K 1- 3, 6, K 7, 10- 13, K 16	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307 769307 769307	61529	DS2EML2DC5VH284	10	
K 4, 5, 8, K 9	RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078 715078	61529	DS4E-ML2-DC5V-C-H239	4	
K 14, 15, 17	RELAY, ARMATURE, 2 FORM C, 5V	733063	33297	MR602-5SR	3	
L 1- 3, 5, L 7- 9	CHOKE, 6TURN	320911 320911	89536	320911	7	
L 4	INDUCTOR, 3.3UH, +-10%, 88MHZ, SHLD	174714	24759	MR-3.3	1	
L 10	INDUCTOR, 1UH, +-5%, 156MHZ, SHLD	806562	24759	MR-1	1	
L 11	INDUCTOR, 150UH, +-5%, 10.5MHZ, SHLD	174763	24759	MR-150	1	
L 12	INDUCTOR, 6800UH, +-5%, 1.5MHZ, SHLD	363184	24759	MR-6800J	1	
MP 1- 5	HEAT DIS, PWB MT, .75X.50X.50, TO-220	816587	30161	5968B	5	
MP 6	MOLDED COVER, HYBRID, R-NET	775619	89536	775619	2	
MP 7, 8	SHIELD, HIGH RES., FRONT	775684	89536	775684	2	
MP 9, 10	SHIELD, HIGH RES., REAR	764589	89536	764589	2	
MP 11, 12	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	

Table 6-8. A7 Current/High-Res Oscillator PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
P 211, 212	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
Q 1	TRANSISTOR, SI, BV=40V, 40W, TO-220	369660	04713	TIP32T	1	
Q 2, 5, 16, Q 18	TRANSISTOR, SI, NPN, SMALL SIGNAL	698225 698225	04713	2N3904RLRA2	4	
Q 3, 4, 19	TRANSISTOR, SI, PNP, T092	698233	04713	2N3906RLRA	3	
Q 6, 7	TRANSISTOR, SI, BV=100V, 10W	495689	04713	MPS-U56	2	
Q 8, 9	TRANSISTOR, SI, BV= 80V, 10W, TO-202	535468	04713	MPS-U06	2	
Q 10, 11	TRANSISTOR, SI, BV=45V, 27W, TO-220	325753	09214	D45C5	2	
Q 12, 13	TRANSISTOR, SI, BV= 45V, 30W, TO-220	325761	09214	D44C5	2	
Q 14, 25	TRANSISTOR, SI, BV= 60V, 65W, TO-220	386128	01295	TIP120T	2	
Q 15	TRANSISTOR, SI, NPN, SMALL SIGNAL	698241	04713	2N4401RLRA2	1	
Q 17	TRANSISTOR, SI, VMOS, PWR, TO-237, VN10KM	640516	17856	V11809	1	
Q 20- 23	TRANSISTOR, SI, N-DMOS PWR FET, TO-92	782565	59640	VN0104N3	4	
Q 24	TRANSISTOR, SI, BV=60V, 65W, TO-220	559989	04713	TIP125	1	
R 1, 38- 40, R 44, 54, 55, R 61, 62, 65, R 78, 91	RES, CF, 1K, +-5%, 0.25W	780585 780585 780585 780585	59124	CF1-4VT102J	12	
R 3, 36	RES, CF, 4.7K, +-5%, 0.25W	721571	59124	CF1-4VT472J	2	
R 4, 9, 94	RES, MF, 1K, +-1%, 0.125W, 100PPM	816595	59124	MF50DVT1001F	3	
R 5, 8	RES, CF, 62K, +-5%, 0.25W	713941	59124	CF1-4VT623J	2	
R 6, 7	RES, MF, 8.87K, +-1%, 0.125W, 100PPM	658922	59124	MF50DVT8871F	2	
R 10, 12, 29, R 32	RES, MF, 8.25K, +-1%, 0.125W, 100PPM	820357 820357	59124	MF50DVT8251F	4	
R 11, 13, 81, R 82	RES, MF, 1K, +-1%, 0.125W, 100PPM	820308 820308	59124	MF50DVT1001F	4	
R 14	RES, WW, 1.2, +-5%, 2W	248658	23237	SPH21R2J	1	
R 16	RES, CF, 20K, +-5%, 0.25W	697110	59124	CF1-4VT203J	1	
R 17, 37, 50- R 52	RES, CF, 16K, +-5%, 0.25W	714303 714303	59124	CF1-4VT163J	5	
R 18, 89, 95	RES, CF, 1.5K, +-5%, 0.25W	810432	59124	CF1-4VT152J	3	
R 19	RES, MF, 150, +-1%, 0.125W, 100PPM	822171	59124	MF50DVT1500F	1	
R 20- 23	RES, MF, 162, +-1%, 0.125W, 100PPM	820340	59124	MF50DVT1620F	4	
R 24- 27	RES, MF, 13, +-1%, 0.5W, 100PPM	820233	23783	820223	4	
R 28, 30, 33	RES, MF, 10K, +-1%, 0.125W, 100PPM	658914	59124	MF50DVT1002F	3	
R 31	RES, MF, 4.12K, +-1%, 0.125W, 100PPM	820381	59124	MF50DVT4121F	1	
R 34	RES, MF, 1.91K, +-1%, 0.125W, 100PPM	820365	59124	MF50DVT1911F	1	
R 35, 66, 72, R 73, 90	RES, CF, 100, +-5%, 0.25W	810465 810465	59124	CF1-4VT101J	5	
R 42	RES, CF, 100K, +-5%, 0.25W	658963	59124	CF1-4VT104J	1	
R 43, 60, 67, R 68	RES, CF, 10K, +-5%, 0.25W	697102 697102	59124	CF1-4VT103J	4	
R 45, 46	RES, CF, 33K, +-5%, 0.25W	733667	59124	CF1-4VT333J	2	
R 47, 48	RES, CF, 130K, +-5%, 0.25W	747436	59124	CF1-4VT134J	2	
R 49	RES, CF, 2.4M, +-5%, 0.25W	772566	59124	CF1-4VT245J	1	
R 53	RES, CF, 9.1K, +-5%, 0.25W	706663	59124	CF1-4VT912J	1	
R 56, 57	RES, CC, 470, +-10%, 1W	109710	01121	GB4711	2	
R 58	RES, CF, 620, +-5%, 0.25W	810408	59124	CF1-4VT621J	1	
R 59, 63, 93	RES, CF, 3K, +-5%, 0.25W	810366	59124	CF1-4VT302J	3	
R 64	RES, MF, 10, +-1%, 0.125W, 100PPM	820399	59124	MF50DVT10R0F	1	
R 70	RES, MF, 100, +-1%, 0.125W, 100PPM	817627	59124	MF50D100F	1	
R 71	RES, MF, 7.32K, +-1%, 0.125W, 100PPM	853630	59124	MF50D8321F	1	
R 74, 75	RES, CF, 47, +-5%, 0.25W	822189	59124	CF1-4VT470J	2	
R 76, 77, 92	RES, CF, 240, +-5%, 0.25W	830588	59124	CF1/4VT241J	3	
R 79, 80	RES, MF, 787, +-1%, 0.125W, 100PPM	853627	59124	MF50DVT7870F	2	
R 83, 84	RES, CF, 330, +-5%, 0.25W	830596	59124	CF1-4VT331J	2	

Table 6-8. A7 Current/High-Res Oscillator PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
R 85, 86	RES, WW, 27, +-5%, 2W	844563	05347	CS3N101270J	2	
R 87, 88	RES, CF, 51K+-5%, 0.25W	747550	59124	CF1-4VT513J	2	
R 96, 97	RES, MF, 200, +-1%, 0.125W, 100PPM	820282	24759	MF50D2000F	2	
RT 1, 2	THERMISTOR, DISC, 4.85, 25C	838102	1EJ84	RXE017	2	
U 2, 3	⚡ IC, OP AMP, PRECISION, LOW NOISE	782920	64155	LT1007CN8	2	
U 4, 22	⚡ IC, OP AMP, JFET INPUT, 22V SUPPLY, DIP	832584	04713	LF356BN	2	
U 5, 18	⚡ IC, CMOS, QUAD BILATERAL SWITCH	910708	17856	DG444DJ	2	
U 6, 20	⚡ IC, OP AMP, DUAL, PRECISION, 8-PIN DIP	783696	64155	LT1013CN8	2	
U 7	⚡ IC, CMOS, PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1	
U 8- 10	⚡ IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	3	
U 11	⚡ IC, BIMOS, 4 CHNL HI-VOLT DRVR W/LATCH	820514	56289	UCN-5800A	1	
U 12	⚡ IC, CMOS, 8-1 LINE MUX/DEMUX ANALOG SW	836304	04713	MM74HC4051N	1	
U 13	⚡ IC, COMPARATOR, HI-SPEED, 14 PIN DIP	647115	18324	NE522N	1	
U 14	⚡ IC, CMOS, DUAL D F/F, +EDG TRG, W/CLR	741702	04713	MC74HC74N	1	
U 15	⚡ IC, CMOS, QUAD INPUT NOR GATE	811158	04713	MC74HC02N	1	
U 16	⚡ IC, CMOS, 4-BIT PHASE LCKD LOOP FRQ SYN	799452	04713	MC145145P1	1	
U 17	⚡ IC, CMOS, 4-BIT PHASE LCKD LOOP FRQ SYN	820506	04713	MC145146P1	1	
U 19	⚡ IC, ECL, VOLTAGE CONTROLLED OSCILLATOR	454975	04713	MC1648P	1	
U 21	⚡ IC, LSTTL, DUAL D F/F, +EDG TRG, W/CLR	393124	04713	SN74LS74AN	1	
VR 3	⚡ ZENER, UNCOMP, 5.6V, 5%, 20MA, 0.5W	820464	04713	1N5232BRR1	1	
XU 2, 3	SOCKET, IC, 8 PIN	478016	00779	2-640463-1	2	
Z 1	⚡ RES, NET, THN F, 40.K(8) +-500/2.0PPM	760835	89536	760835	1	
Z 2	RES, CERM, SIP, 6 PIN, 5 RES, 10K, +-2%	500876	91637	CSC06A-01-103G	1	
Z 3	RES, CERM, NET, 8 PINS, 4 RES, 10K	855150	91637	CSC08E-03-103G	1	
NOTES:	⚡ Static sensitive part.					

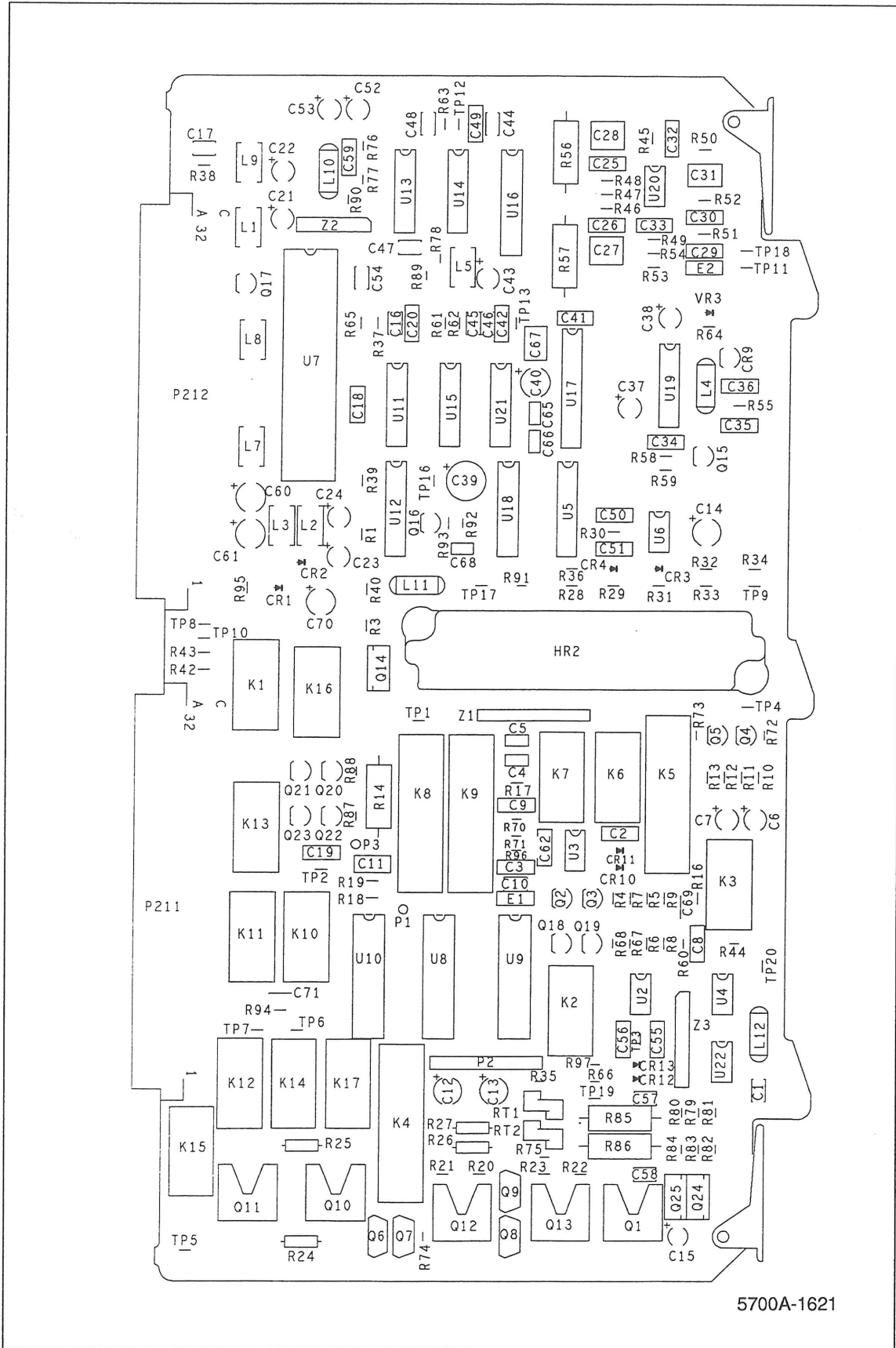


Figure 6-8. A7 Current/High-Res Oscillator PCA

Table 6-9. A8 Switch Matrix PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1, 3, 18	CAP,CER,470PF,+/-10%,50V,COG	733071	04222	SR215A471KAT	3	
C 2, 5	CAP,CER,33PF,+/-5%,50V,COG	714543	04222	SR215A330JAT	2	
C 4	CAP,CER,0.01UF,+80-20%,50V,Z5V	697284	51406	DD106L10Z5U103M50V	1	
C 6- 9, 12, C 13, 15, 16, C 21, 25- 27	CAP,POLYES,0.22UF,+/-5%,50V	747519 747519 747519	60935	185.22/J0050RCB	12	
C 10, 29	CAP,CER,100PF,+/-20%,50V,COG	721605	72982	RPE113Z5U101M50V	2	
C 14	CAP,CER,15PF,+/-2%,100V,COG	832287	04222	SR211A156GAT	1	
C 17	CAP,POLYES,1UF,+/-10%,50V	733089	60935	185/1.00K0050RAB	1	
C 20	CAP,CER,1000PF,+/-20%,50V,X7R	697458	89536	697458	1	
C 22	CAP,TA,15UF,+/-20%,20V	807610	56289	199D156X0020DA1	1	
C 23	CAP,CER,22PF,+/-2%,50V,COG	714832	04222	SR215A220GAT	1	
C 30	CAP,CER,330PF,+/-5%,50V,COG	697441	04222	SR215A331JAT	1	
C 31	CAP,POLYES,0.1UF,+/-10%,50V	649913	60935	185-2/0.1K0050RAB	1	
CR 1, 3, 4, CR 7- 9,	DIODE,SI,BV= 75.0V,RADIAL INSERTED	659516 659516	03508	1N4448	6	
CR 2, 10	DIODE,SI,100 PIV,1.0 AMP	698555	04713	1N4002RL	2	
CR 5, 6, 12 CR 13	DIODE,SI,BV=125V,IO=150MA,500MW	844647 844647	89536	844647	4	
CR 14, 15	DIODE,SI,100 PIV,1.0 AMP	820449	65940	1N4002A-T20 (A)	2	
H 5- 8	RIVET,S-TUB,OVAL,STL,.087,.343	838458		COMMERCIAL	4	
HY 1	HYBRID ASSEMBLY,TESTED	813436	89536	813436	1	
K 1, 3- 6, K 13, 15- 20, K 22, 24, 25	RELAY,ARMATURE,4 FORM C,5V,LATCH	715078 715078 715078	61529	DS4EML2DC5VCH239	15	
K 2, 7- 12, K 14, 21, 23, K 26- 33	RELAY,ARMATURE,2 FORM C,5V,LATCH	769307 769307 769307	61529	DS2EML2DC5VCH284	18	
L 1- 4	CHOKE,6TURN	320911	89536	320911	4	
MP 2	MOLDED COVER, HYBRID, R-NET	775619	89536	775619	1	
MP 9, 10	EJECTOR,PWB,NYLON	494724	32559	CP-66	2	
MP 18- 21	SPACER,.156 RND,SOLUBLE,.062,.060	296319	32559	TO-8-06	4	
P 201,202	CONN,DIN41612,TYPE C,RT ANG,64 PIN	807800	28213	7264-50D2TB	2	
Q 1,	TRANSISTOR,SI,BV= 60V, 65W,TO-220	386128	04713	TIP120T	1	
Q 2	TRANSISTOR,SI,NPN,SMALL SIGNAL	698225	04713	2N3904RLRA2	1	
Q 4	TRANSISTOR,SI,PNP,TO92	698233	04713	2N3906RLRA	1	
Q 6, 7, 11	TRANSISTOR,SI,N-DMOS PWR FET,TO-92	782565	59640	VN0104N3	3	
Q 9, 10	TRANSISTOR,SI,N-JFET,TO92	845073	17856	J2929	2	
Q 12, 13	TRANSISTOR,SI,N-JFET,HI-VOLTAGE,TO-92	832147	17856	J2907-TR3	2	
R 1	RES,MF,15.4K,+/-1%,0.125W,100PPM	772038	59124	MF50DVT1542J	1	
R 2	RES,MF,1.21K,+/-1%,0.125W,100PPM	810507	59124	MF50DVT1211F	1	
R 3, 4, 6	RES,CF,10K,+/-5%,0.25W	697102	59124	CF1-4VT103J	3	
R 5, 7, 10, R 19, 34	RES,MF,1K,+/-1%,0.125W,100PPM	816595 816595	59124	MF50DVT1001F	5	
R 8	RES,MF,12.7K,+/-1%,0.125W,25PPM	817510	91637	CMF501272F T-9	1	
R 9, 46, 47	RES,MF,10K,+/-0.1%,0.125W,50PPM	733972	59124	MF50CVT1002B	3	
R 11, 20, 35	RES,CF,560,+/-5%,0.25W	810440	59124	CF1-4VT561J	3	
R 12	RES,CF,1.5,+/-5%,0.25W	732800	59124	CF1-4VT1R5J	1	
R 13	RES,CF,330,+/-5%,0.25W	830596	59124	CF1-4VT331J	1	
R 14,	RES,CF,4.7K,+/-5%,0.25W	721571	59124	CF1-4VT472J	1	
R 15- 17, 21	RES,CF,100K,+/-5%,0.25W	658963	59124	CF1-4VT104J	4	
R 18, 33, 44	RES,MF,20K,+/-0.1%,0.25W,25PPM	810564	91637	CMF552002B T-9	3	
R 22	RES,CF,1K,+/-5%,0.25W	780585	59124	CF1/4102J	1	
R 23, 39, R 40	RES,CF,100,+/-5%,0.25W	810465 810465	59124	CF1-4VT101J	3	
R 24	1/4 WATT HERM. W.W. RESISTOR	864207	89536	864207	1	

Table 6-9. A8 Switch Matrix PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
R 25	RES,CF,6.2K,+5%,0.25W	714337	59124	CF1-4VT622J	1	
R 26	RES,CF,9.1K,+5%,0.25W	706663	59124	CF1-4VT912J	1	
R 27, 28	RES,CF,620,+5%,0.25W	810408	59124	CF1-4VT621J	2	
R 29, 30	RES,MF,14.3,+1%,0.125W,100PPM	831396	59124	MF50DVT14R3F	2	
R 32	RES,MF,10,+1%,0.125W,100PPM	820399	59124	MF50DVT10R0F	1	
R 36, 37	RES,MF,4.99K,+1%,0.125W,100PPM	721548	59124	MF55D4991F	2	
R 38	RES,CC,47,+5%,0.125W	512061	01121	BB4705	1	
R 41, 42	RES,CF,20,+5%,0.25W	810382	59124	CF1-4VT200J	2	
R 43	RES,MF,150,+1%,0.125W,100PPM	822171	59124	MF50DVT1500F	1	
T 1	MV COMMON MODE CHOKE	802751	89536	802751	1	
TP 1- 10	JUMPER,WIRE,NONINSUL,0.200CTR	816090	91984	1SOT1	10	
U 1	IC,CMOS,PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1	
U 2	IC,CMOS,BCD-DEC & BINRY-OCTAL DECODER	650689	04713	MC14028BCPD	1	
U 3	IC,BPLR,FAHRENHEIT TEMPERTURE SENSOR	845156	27014	LM34CZ	1	
U 4	IC,CMOS,8-1 LINE MUX/DEMUX ANALOG SW	836304	04713	MM74HC4051N	1	
U 5- 13	IC,BIMOS,8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	9	
U 15	IC,COMPARATOR,DUAL,LO-PWR,8 PIN DIP	478354	27014	LM393N	1	
U 17	IC,OP AMP,GEN PURPOSE,COMPEMSATED	402750	27014	LM741CN	1	
U 19	IC,ARRAY,5 TRANS,5 ISO: 2-PNP,3-NPN	418954	02735	CA3096E	1	
U 20	IC,OP AMP,PRECISION,LOW NOISE	782920	64155	LT1007CN8	1	
U 21	IC,OP AMP,LO-OFFSET VOLTAGE,LO-NOISE	605980	06665	OP-07DP	1	
VR 1, 2	ZENER,UNCOMP,6.8V,5%,20.0MA,0.4W	820431	04713	1N754ARR1	2	
VR 3, 4	ZENER,UNCOMP,5.1V,5%,20.0MA,0.5W	853700	04713	IN5231B	2	
Z 1	RES,NET,THN F	759647	89536	759647	1	
Z 2	RNET,8840A OUTPUT DIVIDER	655811	89536	655811	1	
Z 3, 4	RES,CERM,SIP,6 PIN,5 RES,330,+2%	408302	91637	CSC06A-01-3R30G	2	
Z 5	RES,CERM,SIP,8 PIN,4 RES,10K,+2%	513309	91637	CSC08A-03-103G	1	
Z 6	RES,CERM,SIP,6 PIN,5 RES,1K,+2%	408310	91637	CSC06A-01-102G	1	
NOTES:	⚡ Static sensitive part.					

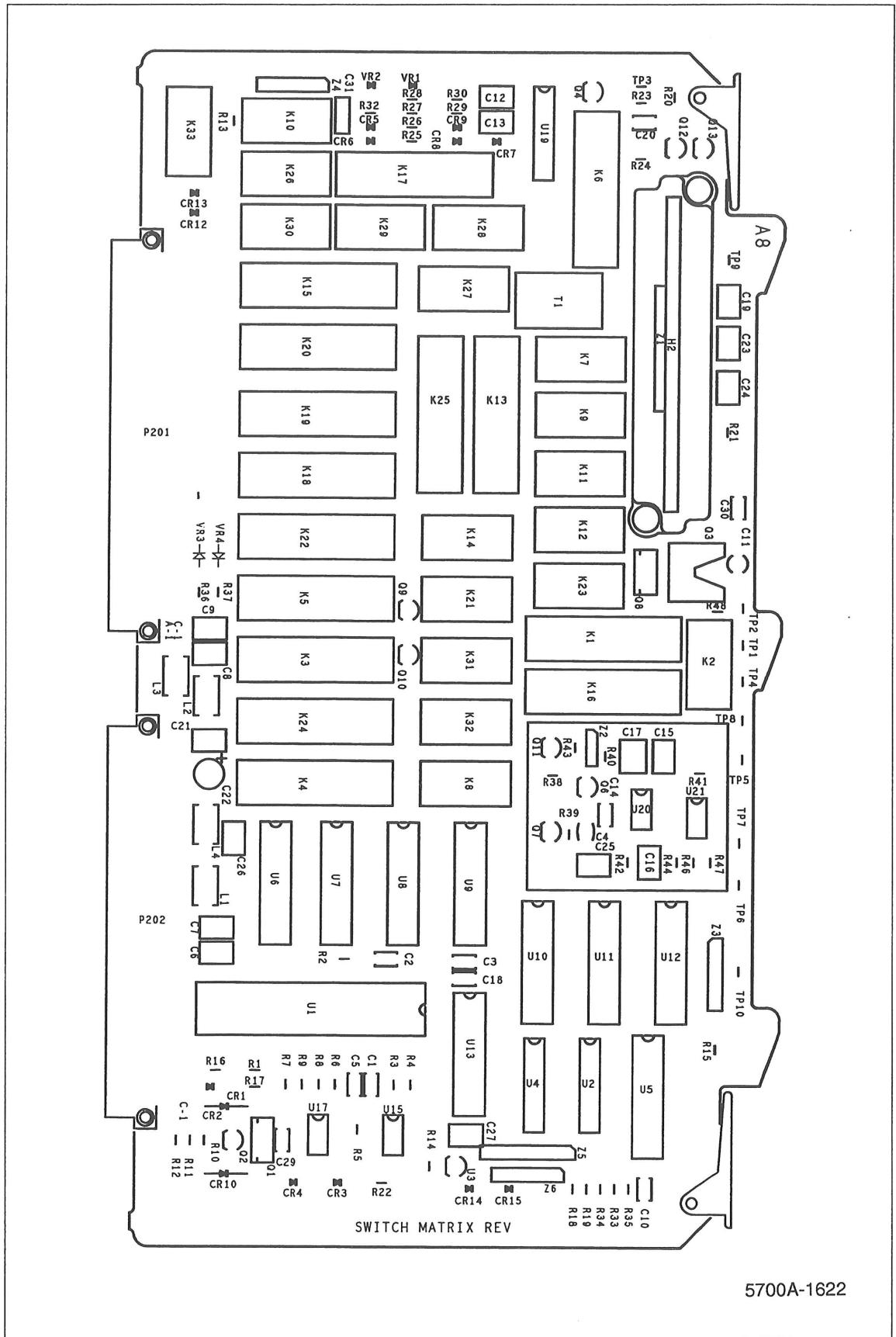


Figure 6-9. A8 Switch Matrix PCA

Table 6-10. A9 Ohms Cal PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1, 28, 29, C 55	CAP, POLYES, 0.1UF, +-10%, 50V	649913 649913	60935	185-2/0.1K0050RAB	4	
C 2, 3, 32, C 35	CAP, CER, 1000PF, +-20%, 100V, X7R	816181 816181	04222	SR171C102MAA	4	
C 4, 5, 8, C 10, 14, 15, C 31, 37- 43, C 45	CAP, POLYES, 0.22UF, +-5%, 50V	747519 747519 747519 747519	60935	185.22/J/0050/R/C/B	15	
C 6	CER, 470PF, +-10%, 50V, COG	733071	89536	733071	1	
C 7, 9, 22, C 23	CAP, TA, 2.2UF, +-10%, 35V	697433 697433	31433	T356E225K035AS	4	
C 12, 13	CAP, CER, 220PF, +-20%, 50V, COG	740654	04222	SR215A221MAT	2	
C 16, 17	CAP, CER, 22PF, +-5%, 50V, COG	714550	04222	SR215A220JAT	2	
C 18, 33	CAP, TA, 4.7UF, +-20%, 25V	807644	56289	199D475X0025BA1	2	
C 19, 24, 25	CAP, TA, 10UF, +-20%, 35V	816512	56289	199D106X9035DA1	3	
C 20, 52	CAP, CER, 0.22UF, +80-20%, 50V, Z5U	649939	04222	SR215E224MAA	2	
C 21	CAP, CER, 2700PF, +-5%, 50V, COG	832303	04222	SR215A272JAT	1	
C 26, 27	CAP, CER, 1800PF, +-5%, 50V, COG	832717	04222	SR215A182JAT	2	
C 30	CAP, POLYPR, 0.1UF, +-10%, 160V	446781	60935	171/.1/K/160/D	1	
C 34, 51	CAP, CER, 33PF, +-5%, 50V, COG	714543	04222	SR215A330JAT	2	
C 36	CAP, TA, 47UF, +-20%, 10V	733246	56289	199D476X0010DA1	1	
C 48	CAP, POLYPR, 0.47UF, +-10%, 160V	446807	60935	171/.47K160H	1	
C 53, 54	CAP, POLYES, 1UF, +-10%, 50V	733089	60935	185/1.00K0050RGB	2	
CR 1- 10	DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516	03508	1N4448	10	
H 1- 4	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
H 5	SCREW, MACH, PH, P, STL, 6-32X0.250	152140		COMMERCIAL	1	
K 1- 5, 10, K 11, 13, 15- K 18, 20, 22- K 27, 31	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307 769307 769307 769307	61529	DS2EML2DC5VH284	20	
K 6- 9, 12, K 14, 19, 21, K 28- 30	RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078 715078 715078	61529	DS4E-ML2-DC5V-C-H239	11	
L 2- 8	CHOKE, 6TURN	320911	89536	320911	7	
M 4	SHIELD, OHMS CAL	775312	89536	775312	1	
MP 1, 2	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 3	SLEEV, PVC, 0.500ID, CLEAR	113761	88690	ASTRA703/105	2	
MP 4	SHIELD, HIGH VOLTAGE CONTROL	761197	89536	761197	1	
MP 6- 17	SPACER, RND, SOLUBLE, .1560D, .060THK	296319	32559	TO-8-06	15	
P 311, 312	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
Q 1	TRANSISTOR, SI, BV= 60V, 65W, TO-220	386128	04713	TTP120T	1	
Q 2- 4	TRANSISTOR, SI, VMOS, PWR, TO-237	640516	17856	V11809	3	
Q 5	TRANSISTOR, SI, PNP, T092	698233	04713	2N3906RLRA	1	
Q 6	TRANSISTOR, SI, NPN, SMALL SIGNAL	698225	04713	2N3904RLRA2	1	
R 1-3, 80	RES, CF, 10K, +-5%, 0.25W	697102	59124	CF1-4VT103J	4	
R 4, 8, 13, R 32, 35, 39, R 45	RES, CF, 1K, +-5%, 0.25W	780585 780585 780585	59124	CF1-4VT102J	7	
R 9, 10, 43, R 44	RES, CF, 47, +-5%, 0.25W	822189 822189	59124	CF1-4VT470J	4	
R 11	RES, CC, 330, +-5%, 1W	163394	01121	GB3311	1	
R 12, 23	RES, CF, 100K, +-5%, 0.25W	658963	59124	CF1-4VT104J	2	
R 26, 46	RES, CF, 100, +-5%, 0.25W	810465	59124	CF1-4VT101J	2	
R 14, 15	RES, CF, 24, +-5%, 0.25W	817528	59124	CF1-4VT240J	2	
R 16, 17	RES, MF, 10K, +-0.1%, 0.125W, 100PPM	658955	59124	MF50DVT1002B	2	
R 18	RES, MF, 76K, +-0.1%, 0.125W, 50PPM	851332	59124	MF50CVT763B	1	
R 24, 31	RES, CF, 22K, +-5%, 0.25W	747535	59124	CF55VT223J	2	
R 25	RES, CC, 150, +-5%, 1W	178566	01121	GB1515	1	

Table 6-10. A9 Ohms Cal PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
R 27	RES,MF,10K,+-1%,0.125W,100PPM	658914	59124	MF50DVT1002F	1	
R 29, 30	RES,CF,200,+-5%,0.25W	810390	59124	CF1-4VT201J	2	
R 32, 35, 39, R 45	RES,CF,1K,+-5%,0.25W	780585 780585	59124	CF1-4VT102J	4	
R 33	RES,CF,16K,+-5%,0.25W	714303	59124	CF1-4VT163J	1	
R 41	RES. SET,1.0 OHM 0.04% 3PPM TC	824193	89536	824193	1	
R 42	RES. SET,1.9 OHM 0.04% 3PPM TC	824201	89536	824201	1	
T 1	TRANSFORMER, OHMS 2W COMP	802652	89536	802652	1	
TP 1, 2, 5- TP 20	JUMPER,WIRE,NONINSUL,0.200CTR	816090 816090	91984	150T1	18	
U 1- 3	⚡ IC,OP AMP,LO-OFFSET VOLTAGE,LO-NOISE	605980	06665	OP-07DP	3	
U 4	⚡ IC,OP AMP,PRECISION,LOW NOISE	782920	64155	LT1007CN8	1	
U 5	⚡ IC,OP AMP,GEN PURPOSE,COMPENSATED	402750	27014	LM741CN	1	
U 6	⚡ IC,BIPOLAR,REG PULSE WIDTH MODULATOR	811935	64155	LT3526N	1	
U 7	⚡ IC,OP AMP,CHOPPER STABILIZED,LOW NOISE	810952	64155	LT1052CN/FLOW 52	1	
U 8, 9	⚡ IC,OP AMP,LO-NOISE,8 PIN DIP	495051	18324	N35534N	2	
U 10	⚡ IC,OP AMP,DUAL,JFET INPUT,8 PIN DIP	854059	06665	OP215EZ	1	
U 11	⚡ IC,CMOS,PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1	
U 12	⚡ IC,CMOS,BCD-DEC & BINRY-OCTAL DECODER	650689	04713	MC14028BCPD	1	
U 13	⚡ IC,CMOS,3-8 LINE DCDR W/ENABLE	773036	04713	MC74HC138N	1	
U 14- 20	⚡ IC,BIMOS,8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	7	
U 21	⚡ IC,CMOS,8-1 LINE MUX/DEMUX ANALOG SW	836304	04713	MM74HC4051N	1	
U 22	⚡ IC,CMOS,HEX INVERTER,UNBUFFERED	741199	04713	MC74HCU04N	1	
VR 1, 2	⚡ ZENER,UNCOMP,8.2V,5%,20MA,0.4W	810309	04713	1N756ARR1	2	
VR 3	⚡ ZENER,UNCOMP,3.3V,5%,20.0MA,0.4W	820423	04713	1N746ARR1	1	
Z 1	⚡ RES NET THK FILM TESTED	813659	89536	813659	1	
Z 2	⚡ RES NET THK FILM TESTED	809368	89536	809368	1	
Z 3	RES,CERM,SIP,10 PIN,5 RES,10K,+-2%	529990	71450	750	1	
Z 4	RES,CERM,SIP,6 PIN,5 RES,1K,+-2%	408310	91637	CSC10A-03-101G	1	
Z 5	OHMS CAL REF DIVIDER	915889	89536	915889	1	
NOTES:	⚡ Static sensitive part.					

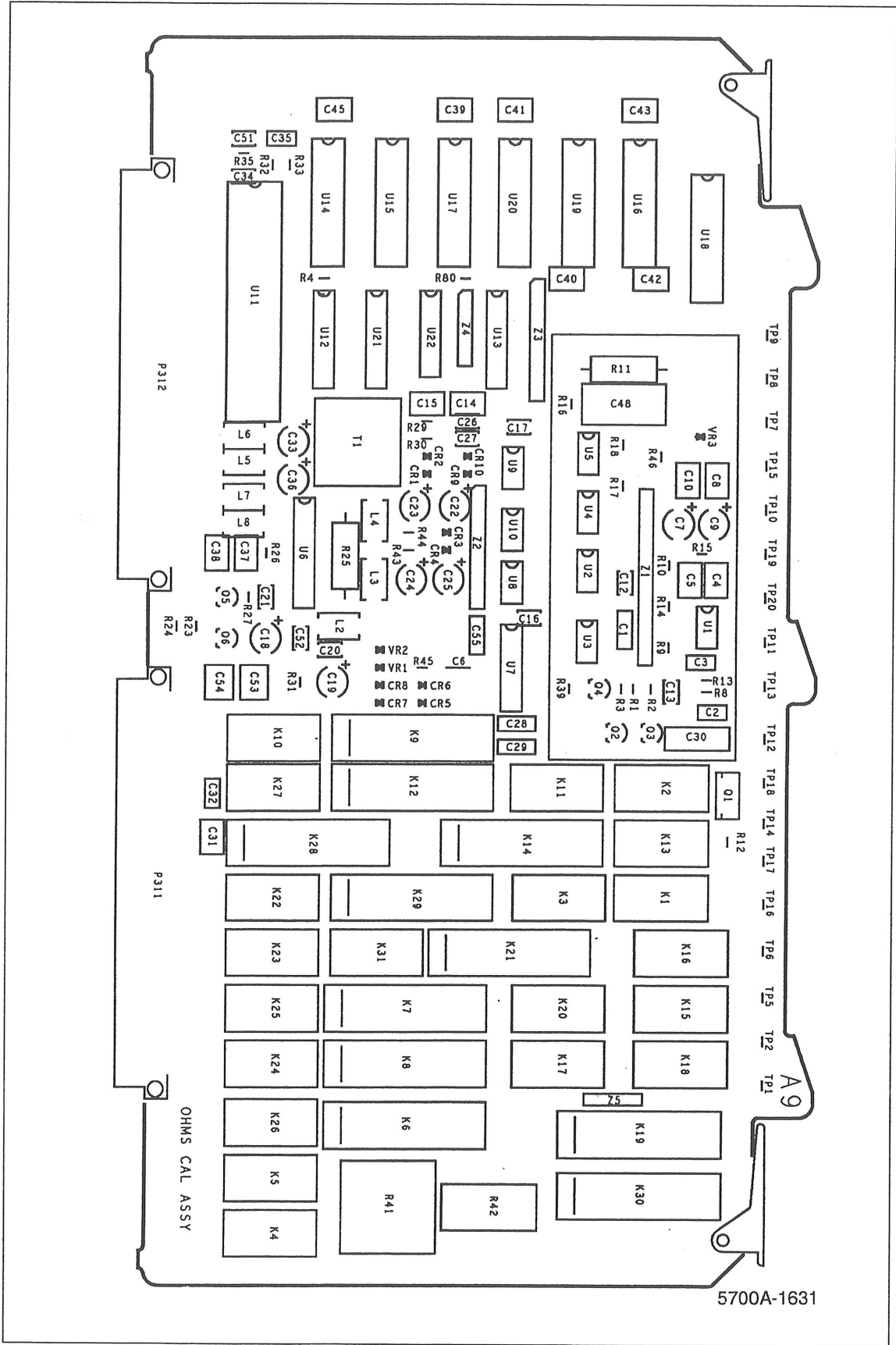


Figure 6-10. A9 Ohms Cal PCA

Table 6-11. A10 Ohms Main PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1, 2, 7, C 10- 13, 16	CAP, POLYES, 0.22UF, +-5%, 50V	747519 747519	68919	MKS2224J50	8	
C 3, 4	CAP, TA, 10UF, +-20%, 35V	816512	56289	199D106X0035DG2	2	
C 6	CAP, TA, 4.7UF, +-20%, 25V	807644	56289	199D475X0025BE2	1	
H 3- 6	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
H 7, 8	SCREW, PH, P, LOCK, STL, 6-32, .250	152140	74594	152140	2	
K 1- 4, 7, K 9, 10, 13- K 17, 28- 30, K 33- 37	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307 769307 769307 769307	61529	DS2EML2DC5VCH284	20	
K 5	RELAY, REED, 1 FORM A, 5VDC	806950	71707	7003-5065	1	
K 6, 8, 11, K 12	RELAY, REED, 1 FORM A, 4.5VDC	544031 544031	71707	1240-0129	4	
K 18- 27, 31, K 32, 39	RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078 715078	61529	DS4EML2DC5VCH239	13	
K 38	RELAY, ARMATURE, 2 FORM C, 5V	733063	61529	DS2E-S-DC5V	1	
L 4, 5	CHOKE, 6TURN	320911	89536	320911	2	
MP 1, 2	SPACER, SWAGE, .250 RND, BR, 6-32, .875	266486	55566	3057B632B14	2	
MP 3, 4	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 6	FOOT, RUBBER, ADHES, BLK, .50 SQ, .12 THK	543488	28213	SJ-5008	1	
MP 7	OHMS, MAIN, HEAT SHIELD	872325	89536	872325	1	
P 301, 302	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
R 1	RES, CERM, 90M, +- .025%, 0.75W, 10 PPM	783654	19647	TF656R	1	
R 2, 3	RES, CF, 270, +-5%, 0.25W	810424	59124	CF1/4 271J	2	
R 5	RES, CF, 100, +-5%, 0.25W	810465	59124	CF1/4 101J	1	
R 6	RES, MF, 110K, +-1%, 0.125W, 100PPM	719526	91637	CMF-55 1103F T-1	1	
TP 1- 5	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	5	
U 1	IC, OP AMP, JFET INPUT, LOW NOISE, TO-99	807933	13919	OPA111AM	1	
U 2, 3, 5- U 8, 11- 13	IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912 782912	56289	UCN-5801A	9	
U 9	IC, CMOS, BCD-DEC & BINRY-OCTAL DECODER	650689	04713	MC14028BCPD	1	
U 10	IC, CMOS, 3-8 LINE DCDR W/ENABLE	773036	01295	SN74HC138N	1	
VR 1	ZENER, UNCOMP, 3.3V, 5%, 20.0MA, 0.4W	820423	04713	1N746	1	
Z 1	RES NET THN F TESTED	798330	89536	798330	1	
Z 2	RES, NET, THN F, 10.MEG, (7) +-250/20PPM	759753	89536	759753	1	
Z 3	RES, NET, THN F,	759803	89536	759803	1	
NOTES:	/ Static sensitive part.					

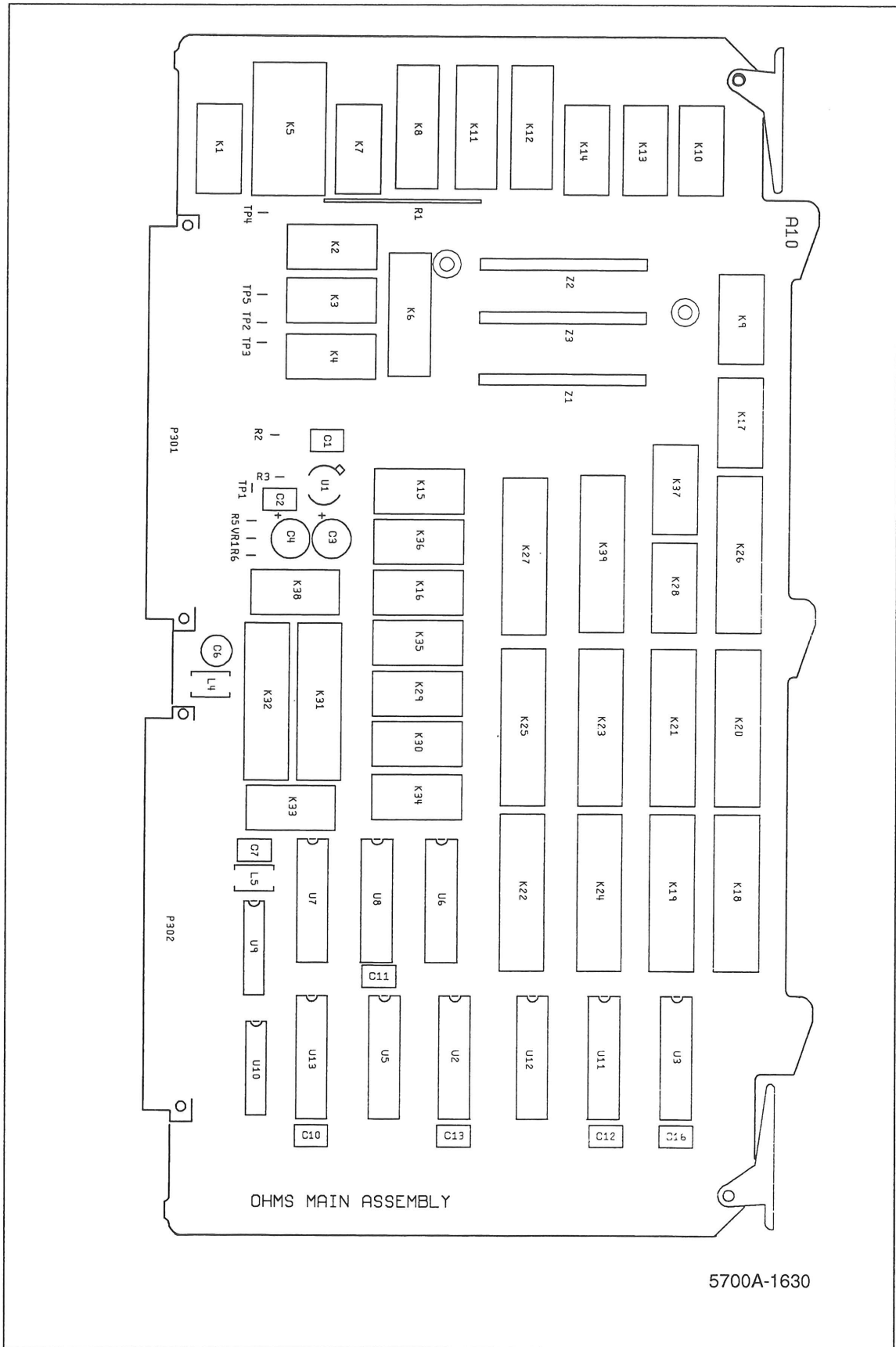


Figure 6-11. A10 Ohms Main PCA

Table 6-12. A11 DAC PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
A 1	DAC FILTER SIP PCA	761395	89536	761395	1	
A 2	⚡ DAC BUFFERED REFERENCE SIP PCA	764639	89536	764639	1	
C 1, 2, 4- C 8, 10, 11, C 13- 18, 21, C 23- 26, 41, C 42, 46- 49, C 53- 56, 58 C 62, 64, 65, C 76, 77, 81, C 86- 88, 91, C 92, 96- 98, C 100,104-109	CAP, CER, 0.22UF, +80-20%, 50V, Y5V, 1206	740597 740597 740597 740597 740597 740597 740597 740597 740597 740597	51406	GRM42-Y5U221Z050PB	52	
C 3	CAP, CER, 3300PF, +-10%, 25V, X7R, 0805	602870	04222	08051C332KAT050R	1	
C 9, 12	CAP, AL, 10UF, +-20%, 63V, SOLV PROOF	816843	62643	KME63VB10RM5X11RP	2	
C 19, 20	CAP, TA, 2.2UF, +-10%, 35V	697433	56289	199D225X9035BG2	2	
C 27	CAP, CER, 15PF, +-20%, 50V, COG	697524	04222	SR595A150MAATR1A	1	
C 29	CAP, CER, 220PF, +-2%, 100V, COG	816728	04222	SR591A221GAATR1A	1	
C 30, 31	CAP, TA, 1.5UF, +-20%, 50V	780478	89536	780478	2	
C 32	CAP, CER, 0.1UF, +-10%, 25V, X7R, 1206	747287	04222	12063C104KAT060B	1	
C 40, 80	CAP, CER, 47PF, +-10%, 50V, COG, 1206	747352	04222	12065A470KAT060B	2	
C 43	CAP, CER, 0.01UF, +-10%, 50V, X7R, 1206	747261	04222	12065C103KAT060R	1	
C 44, 60, 63, C 94,102	CAP, CER, 1000PF, +-10%, 50V, COG, 1206	747378 747378	04222	12065A102KAT060B	5	
C 45, 89, 95	CAP, POLYPR, 0.1UF, +-10%, 160V	446781	60935	171/0.1/K/160/D	3	
C 52,101,103	CAP, CER, 33PF, +-10%, 50V, COG, 1206	769240	04222	12065A330KAT050B	3	
C 57, 85	CAP, CER, 22PF, +-5%, 50V, COG	714550	04222	SR595A220JAATR1A	2	
C 59, 67	CAP, CER, 100PF, +-10%, 50V, COG, 1206	740571	04222	12065A101KAT060B	2	
C 78	CAP, POLYES, 0.47UF, +-10%, 50V	697409	60935	185-2/0.47/K/0050/R/A/B	1	
C 79	CAP, CER, 10PF, +-10%, 100V, COG, 1206	806943	04222	12061A100KAT050B	1	
C 84	CAP, POLYPR, 0.022UF, +-10%, 160V	494948	68919	MKP4-223-K-160V	1	
C 90	CAP, POLYPR, 0.033UF, +-10%, 63V	721050	68919	MKP20-333-K-63V	1	
C 93	CAP, CER, 330PF, +-5%, 50V, COG	697441	04222	SR595A331JAATR1A	1	
C 110,111	CAP, POLYES, 0.22UF, +-10%, 50V	706028	60935	185-2/0.22/K/0050/R/C/B	2	
CR 1, 3- 6, CR 8, 12, 13	⚡ DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516 659516	03508	1N4448	8	
CR 2	⚡ DIODE, SI, N-JFET, CURRENT REG, IF=0.24MA	741512	17856	J9060TR	1	
CR 7	⚡ DIODE, SI, N-JFET, CURRENT REG, IF=1.0 MA	832105	17856	J2900	1	
CR 9, 10	⚡ DIODE, SI, BV=75V, IO=250MA, SOT23	830489	8A233	BAS16	2	
CR 14	⚡ DIODE, SI, N-JFET, CURRENT REG, IF=5.3MA	852116	17856	J9010	1	
H 1	SCREW, PH, P, LOCK, SS, 6-32, .500	320051	89536	320051	1	
H 2	FORM, C-MOS-HANDLING	464016	89536	464016	1	
H 9- 12	RIVET, S-TUB, OVAL, STL, .087, .343	838458	40551	502	4	
H 21	SCREW, PH, P, STL, LOCK, 4-40, .187	129882	89536	129882	1	
H 26	NUT, HEX, STL, 4-40	184044	73734	8002A-NP	1	
H 28	TERM, RING 5/64 & .144, SOLDR	101055	79963	9.074.020, BR, ELEC-TIN	1	
H 32	SHIELD, DAC, FRONT	786483	89536	786483	1	
HR 5	⚡ REFERENCE HYBRID ASSY	761338	89536	761338	1	
HR 6	⚡ DC AMP HYBRID ASSY	761411	89536	761411	1	
K 1, 2, 4	RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078	61529	DS4EML2DC5VCH239	3	
K 3, 5- 8	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307	61529	DS2EML2DC5VCH284	5	
L 1- 7, 10	CHOKE, 6TURN	320911	89536	320911	8	
M 2	SHIELD, DAC-ADC AMP	786509	89536	786509	1	
M 3	SHIELD, DAC, REAR	786491	89536	786491	1	
MP 1	MOLDED COVER, HYBRID, R-NET	775619	89536	775619	1	
MP 2, 3	SPACER, SWAGED, .250 RND, BR, 6-32, .875	266486	06540	9543B-B-0632	2	

Table 6-12. A11 DAC PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
MP 4	BAG, STATIC SHIELDING, 10"X14"	680967	89536	680967	1	
MP 5, 6	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 7- 9	HEAT DIS, PWB MT, .75X.50X.50, TO-220	816587	30161	5968B	3	
MP 10	HEAT DIS, VERT, .75X.52X.50, TO-220	811760	30161	5972B	1	
MP 11	SHIELD, DAC, FRONT, SMALL	786434	89536	786434	1	
MP 31	MOLDED COVER, REFERENCE HYBRID	797746	89536	797746	1	
P 401, 402	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
Q 1, 9	TRANSISTOR, SI, BV= 60V, 65W, TO-220	386128	04713	TIP120T	2	
Q 2, 3	TRANSISTOR, SI, BV=40V, 40W, TO-220	369660	04713	TIP32T	2	
Q 4- 7, 11, Q 22, 25, 26	TRANSISTOR, SI, N-DMOS PWR FET, TO-92	782565 782565	59640	VN0104N3	8	
Q 8	TRANSISTOR, SI, PNP, SMALL SIG, SELECTED	380394	04713	MPS404A	1	
Q 10, 19, 56	TRANSISTOR, SI, NPN, SMALL SIGNAL, TO-92	698225	04713	2N3904RLRA2	3	
Q 12, 13, 16, Q 17, 23, 24	TRANSISTOR, SI, N-JFET, HI-VOLTAGE, TO-92	832147 832147	17856	J2907-TR3	6	
Q 14, 15, 18, Q 20, 21, 52, Q 53	TRANSISTOR, SI, N-CHAN, TO-92, SWITCH	832139 832139 832139	17856	J2903	7	
Q 30, 32	TRANSISTOR, SI, N-JFET, SOT23	844584	17856	SSTH20	2	
Q 31, 33, 35	TRANSISTOR, SI, NPN, SMALL SIGNAL, SOT-23	806463	04713	MMBT2369T	3	
Q 34	TRANSISTOR, SI, PNP, SMALL SIGNAL, SOT-23	838516	04713	MMBTH81T1	1	
Q 57	TRANSISTOR, SI, PNP, T092	698233	04713	2N3906RLRA	1	
R 1, 28, 33, R 39, 44, 83, R 84	RES, CERM, 4.7K, +-5%, .125W, 200PPM, 1206	740522 740522 740522	91637	CRCW1206-4701JB02	7	
R 2	RES, CF, 3K, +-5%, 0.25W	810366	59124	CF1-4 VT 302 J B	1	
R 3	RES, CF, 2K, +-5%, 0.25W	441469	59124	CF1-4 202 J B	1	
R 6	RES, CERM, 910, +-5%, .125W, 200PPM, 1206	769257	91637	CRCW1206-9100JB02	1	
R 7	RES, CERM, 620, +-5%, .125W, 200PPM, 1206	745984	91637	CRCW1206-6200JB02	1	
R 9	RES, CERM, 1.8, +-5%, .125W, 200PPM, 1206	746453	59124	RM73B-2B	1	
R 10	RES, MF, 2.49K, +-1%, 0.125W, 100PPM	810523	59124	MF50DVT2491F REEL	1	
R 12	RES, CERM, 200, +-5%, .125W, 200PPM, 1206	746339	91637	CRCW1206-2000JB02	1	
R 13	RES, CERM, 22, +-5%, .125W, 200PPM, 1206	746230	91637	CRCW1206-22R0JB02	1	
R 14	RES, MF, 61.9M, +-1%, 0.25W, 150PPM	851741	19701	5053YL61M90F	1	
R 15	RES, MF, 1.21K, +-1%, 0.125W, 100PPM	810507	59124	MF50DVT1211F REEL	1	
R 16	RES, CER, 750, +-5%, 0.125W, 200PPM, 1206	746404	91637	CRCW1206-7500JB02	1	
R 19- 21, 29, R 31, 41, 48, R 82, 115, 116	RES, CERM, 10K, +-5%, .125W, 200PPM, 1206	746610 746610 746610	91637	CRCW1206-1002JB02	10	
R 22	RES, CF, 20K, +-5%, 0.25W	697110	59124	CF1-4 VT 203 J B	1	
R 23, 32	RES, CERM, 10, +-5%, .125W, 200PPM, 1206	746214	91637	CRCW1206-10R0JB02	2	
R 24	RES, CERM, 2.49K, +-1%, .125W, 100PPM, 1206	806448	91637	CRCW1206-2491FB02	1	
R 25	RES, CERM, 51.1, +-1%, .125W, 100PPM, 1206	806422	91637	CRCW1206-51R1FB02	1	
R 26, 27, 70, R 89, 90	RES, MF, 20K, +-0.1%, 0.25W, 25PPM	810564 810564	91637	CMF55 2002 B T-9	5	
R 30, 50, 85	RES, CERM, 510, +-5%, .125W, 200PPM, 1206	746388	91637	CRCW1206-5100JB02	3	
R 36, 77, 78, R 103, 105	RES, CERM, 1.2K, +-5%, .125W, 200PPM, 1206	746412 746412	91637	CRCW1206-1202JB02	5	
R 37, 106, 110	RES, CERM, 12, +-5%, .125W, 200PPM, 1206	845458	91637	CRCW1206-12R0JB02	3	
R 38, 49	RES, CERM, 270, +-5%, .125W, 200PPM, 1206	746354	91637	CRCW1206-2700JB02	2	
R 40	RES, CERM, 100K, +-5%, .125W, 200PPM, 1206	740548	91637	CRCW1206-1003JB02	1	
R 43, 52, 109	RES, CERM, 3K, +-5%, .125W, 200PPM, 1206	746511	91637	CRCW1206-3001JB02	3	
R 45	RES, CERM, 2.7K, +-5%, .125W, 200PPM, 1206	746503	91637	CRCW1206-J2700B02	1	
R 46	RES, CERM, 360, +-5%, .125W, 200PPM, 1206	783290	91637	CRCW1206-3600JB02	1	
R 47, 60, 62, R 66, 75, 76	RES, CERM, 100, +-5%, .125W, 200PPM, 1206	746297 746297	91637	CRCW1206-1000JB02	6	
R 51	RES, CERM, 150, +-1%, .125W, 100PPM, 1206	772780	91637	CRCW-1206-151FB02	1	

Table 6-12. A11 DAC PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
R 53, 71	RES, CERM, 5.1K, +-5%, .125W, 200PPM, 1206	746560	91637	CRCW1206-5101JB02	2	
R 58, 59, 64, R 73, 124-127	RES, CERM, 56K, +-5%, .125W, 200PPM, 1206	746701 746701	91637	CRCW1206-5602JB02	8	
R 61	RES, CF, 1.5K, +-5%, 0.25W	810432	59124	CF1-4 VT 152 J B	1	
R 63, 65, 95, R 96, 99	RES, CERM, 1K, +-5%, .125W, 200PPM, 1206	745992 745992	91637	CRCW1206-1001JB02	5	
R 68	RES, MF, 40K, +-0.1%, 0.125W, 100PPM	821702	59124	MF50DVT4002B REEL	1	
R 69	RES, MF, 18.12K, +-0.1%, 0.125W, 50PPM	734020	59124	MF50CVT18121B	1	
R 72	RES, CF, 200, +-5%, 0.25W	810390	59124	CF1-4 VT 201 J B	1	
R 74	RES, CERM, 470K, +-5%, .125W, 200PPM, 1206	746792	91637	CRCW1206-4703JB02	1	
R 79- 81	RES, CERM, 100K, +-1%, .125W, 100PPM, 1206	769802	91637	CRCW1206-104FB02	3	
R 86, 87, 100	RES, CERM, 330, +-5%, .125W, 200PPM, 1206	746370	91637	CRCW1206-3300JB02	3	
R 88	RES, MF, 50K, +-0.1%, 0.25W, 25PPM	810580	91637	CMF55 5002 B T-9	1	
R 91	RES, MF, 4.12K, +-1%, 0.125W, 100PPM	820381	59124	MF50DVT4121F REEL	1	
R 92, 94	RES, CERM, 2K, +-5%, .125W, 200PPM, 1206	746461	91637	CRCW1206-2001JB02	2	
R 93	RES, CERM, 8.06K, +-1%, .125W, 100PPM, 1206	806356	91637	CRCW1206-8061FB02	1	
R 97, 98, 114	RES, CERM, 22K, +-5%, .125W, 200PPM, 1206	746651	91637	CRCW1206-2202JB02	3	
R 104	RES, CERM, 15K, +-5%, .125W, 200PPM, 1206	746628	91637	CRCW1206-1502JB02	1	
R 107, 108	RES, CERM, 1.8K, +-5%, .125W, 200PPM, 1206	746453	91637	CRCW1206-1801JB02	2	
R 111	RES, CF, 33K, +-5%, 0.25W	733667	59124	CF1-4 VT 333 J B	1	
R 112, 113	RES, CF, 10K, +-5%, 0.25W	697102	59124	CF1-4 VT 103 J B	2	
R 117-119, 123	RES, CERM, 7.5K, +-5%, .125W, 200PPM, 1206	746586	91637	CRCW1206-7501JB02	4	
T 1	PULSE TRANSFORMER	802892	89536	802892	1	
TP 1, 3, 8- TP 10, 12	JUMPER, WIRE, NONINSUL, 0.200CTR	816090 816090	91984	150T1	6	
U 1	IC, OP AMP, DUAL, LO OFFST VOLT, LO-DRIFT	851704	27014	LF412ACN	1	
U 20	IC, OP AMP, DUAL, PRECISION, 8-PIN DIP	783696	64155	LT1013CN8	1	
U 5	IC, OP AMP, POWER, IO=250MA	807917	27014	LM77000CP	1	
U 6	IC, CMOS, PROGRMBL INTERVAL TIMER, PLCC	806612	34371	CS82C54 T/R	1	
U 7	IC, COMPARATOR, HI-SPEED, PRECISION	822197	64155	LT1016CN8	1	
U 8	IC, CMOS, OCTL INV LINE DRVR, SOIC	782938	01295	SN74HC240DWR	1	
U 9	IC, CMOS, QUAD 2 INPUT OR GATE, SOIC	783712	01295	SN74HC32DR	1	
U 10	IC, COMPARATOR, HI-SPEED, 14 PIN DIP	647115	18324	NE522N	1	
U 11	IC, OP AMP, SINGLE, LOW NOISE FAST, SOIC	783720	01295	TL071CDR	1	
U 12, 37	ISOLATOR, OPTO, LED TO TRANSISTOR, DUAL	454330	50579	ILCT-6-254	2	
U 13	ISOLATOR, 20 MHZ OPTOCOUPLER	742817	28480	HCPL-2400, OPTION 100	1	
U 14	IC, CMOS, DUAL D F/F, +EDG TRG, SOIC	782995	01295	SN74HC74DR	1	
U 15	IC, CMOS, DUAL MONOSTB MULTIVBRTR, SOIC	806620	27014	MM74HC423AM	1	
U 19	IC, OP AMP, DUAL, PRECISION MATCHED	782375	64155	OP227GN	1	
U 22	IC, OP AMP, JFET INPUT, 22V SUPPLY, DIP	832584	04713	LF356BN	1	
U 23	IC, DMOS, QUAD ANALOG SWITCH, SOIC	928291	89536	928291	1	
U 24	IC, OP AMP, PRECISION, JFET INPUT	808097	64155	LT1056CN8	1	
U 25	IC, CMOS, RR A/D CONVERTER	715680	89536	715680	1	
U 26	IC, OP AMP, DUAL, LO-NOISE, 8 PIN DIP	707976	18324	NE5532N	1	
U 27, 28	IC, OP AMP, DUAL, JFET IN, HIGH SPEED	855069	64155	LT1057CN8	2	
U 29, 38	IC, OP AMP, JFET INPUT, 8 PIN DIP	472779	27014	LF356N	2	
U 31	IC, CMOS, PROGRAMBL PERIPH INTRFC, PLCC	806604	34371	CS82C55A T/R	1	
U 32	IC, CMOS, 3-8 LINE DCDR W ENABLE, SOIC	783019	01295	SN74HC138DR	1	
U 33, 34	IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	2	
U 35, 36	IC, COMPARATOR, QUAD, 14 PIN, SOIC	741561	18324	LM339DT	2	
VR 1, 17, 21, VR 31, 32	ZENER, UNCOMP, 20.0V, 5%, 6.2MA, 0.4W	810275 810275	65940	1N968BT-88	5	
VR 2, 8, 24	ZENER, UNCOMP, 10.0V, 5%, 12.5MA, 0.4W	810267	65940	1N961BT-88	3	
VR 3	ZENER, UNCOMP, 16.0V, 7.8MA, 0.4W	822205	04713	1N966BRR1	1	

Table 6-12. A11 DAC PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
VR 4	‡ ZENER, UNCOMP, 18.0V, 5%, 7.0MA, 0.4W	810325	65940	1N967BT-88	1	
VR 5, 19, 20, VR 35, 36	‡ ZENER, UNCOMP, 3.3V, 5%, 20.0MA, 0.4W	820423 820423	65940	1N753AT-88	5	
VR 6, 30	‡ ZENER, UNCOMP, 12.0V, 10%, 10.5MA, 0.4W	741074	04713	1N963A	2	
VR 7, 16	‡ ZENER, UNCOMP, 22.0V, 5%, 5.6MA, 0.4W	811927	65940	1N969BT-88	2	
VR 10, 12	‡ ZENER, UNCOMP, 10V, 5%, 20MA, 0.2W, SOT-23	783704	04713	MMBZ5240T1	2	
VR 11	‡ ZENER, UNCOMP, 10.0V, 5%, 20.0MA, 0.5W	820480	65940	1N5240BT-88	1	
VR 13	‡ ZENER, UNCOMP, 13V, 5%, 9.5MA, 0.5W	820456	04713	1N5243BRR1	1	
VR 18, 22	‡ ZENER, UNCOMP, 15.0V, 5%, 8.5MA, 0.4W	820415	04713	1N965BRR1	2	
VR 25	‡ ZENER, UNCOMP, 3.3V, 10%, 20.0MA, 0.4W	309799	04713	1N746	1	
VR 26	‡ ZENER, UNCOMP, 3.3V, 5%, 20MA, 0.2W, SOT-23	807008	04713	MMBZ5226T1	1	
VR 27	‡ ZENER, UNCOMP, 7.5V, 5%, 20MA, 0.2W, SOT-23	837138	04713	MMBZ5236BT1	1	
VR 28	‡ ZENER, UNCOMP, 8.2V, 5%, 20MA, 0.2W, SOT-23	837146	04713	MMBZ5237T1	1	
VR 29	‡ ZENER, COMP, 6.4V, +2-3.4%, 20PPM, 1MA	810259	04713	SZ2475TA2	1	
VR 33, 34	‡ ZENER, UNCOMP, 7.5V, 5%, 20.0MA, 0.4W	810291	65940	1N755AT-88	2	
X 1	SOCKET, IC, 40PIN, DUAL WIPE, BEAM TYPE	756668	00779	2-641616 (-1)	1	
Z 2	‡ RES NET THIN FILM TESTED	890244	89536	890244	1	
Z 4	RES, CERM, SIP, 10 PIN, 5 RES, 56K, +-2%	529131	91637	CSC10A-03-563G	1	
Z 5	RES, CERM, SIP, 6 PIN, 5 RES, 510, +-2%	459974	91637	CSC06A-01-511G	1	
Z 8	‡ RES NET THN F TESTED	809418	89536	809418	1	
Z 10	RES NET THN F TESTED	833830	89536	833830	1	
Z 12	RES, CERM, SIP, 6 PIN, 5 RES, 10K, +-2%	500876	91637	CSC06A-01-103G	1	
NOTES:	‡ Static sensitive part.					

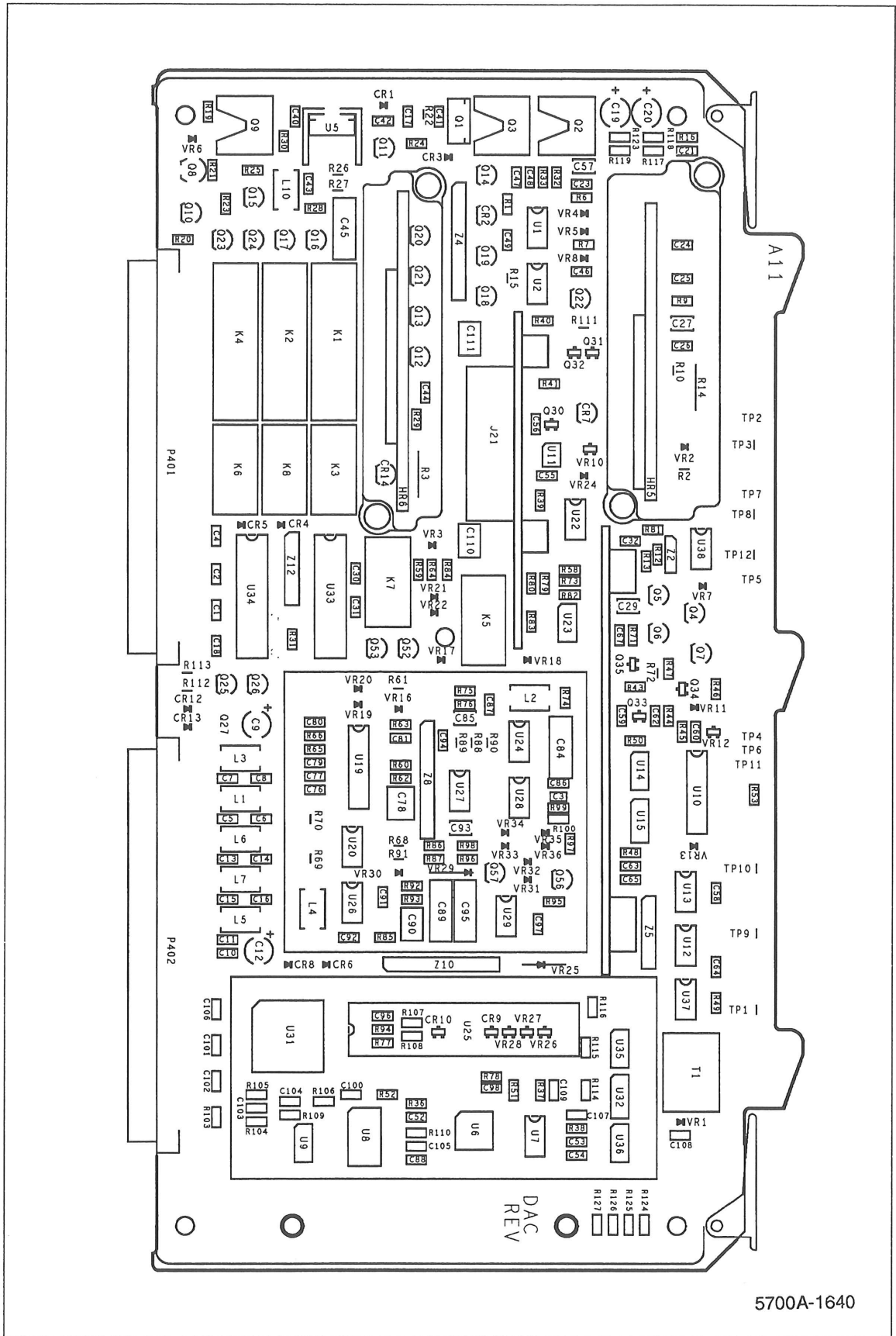
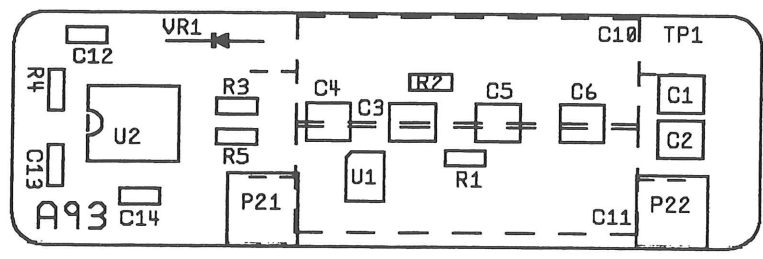


Figure 6-12. A11 DAC PCA

Table 6-13. A11A1 DAC Filter SIP PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1- 6	CAP, POLYES, 0.33UF, +-20%, 50V	853903	68919	MKS02334M5	6	
C 10, 11	CAP, POLYPR, 1UF, +-5%, 50V, HERMETIC	783811	84411	JF136	2	
C 12, 13	CAP, CER, 0.22UF, +80-20%, 50V, Y5V, 1206	740597	51406	GRM42Y5U221Z50VPB	2	
C 14	CAP, CER, 100PF, +-10%, 50V, COG, 1206	740571	04222	12065A101KAT050R	1	
P 21, 22	HEADER, 2 ROW, .100CTR, RT ANG, 6 PTN	912217	0AKZ5	IPEG06DRT1R125135	2	
R 1, 2	RES, CERM, 11K, +-5%, .125W, 250PPM, 1206	769752	91637	CRCW12061102JB02	2	
R 3, 5	RES, CERM, 18K, +-5%, .125W, 200PPM, 1206	746636	91637	CRCW12061802JB02	2	
R 4	RES, CERM, 22K, +-5%, .125W, 200PPM, 1206	746651	59124	RM73B2BJ2202B	1	
U 1	IC, OP AMP, ULTRA-LOW-NOISE, SOIC	783001	01295	OP07CDR	1	
U 2	IC, OP AMP, PRECISION, LOW NOISE	782920	64155	LT1007CN8	1	
VR 1	ZENER, UNCOMP, 15.0V, 5%, 8.5MA, 0.4W	698704	04713	IN965B-SR4348RL	1	
NOTES:	⚡ Static sensitive part.					

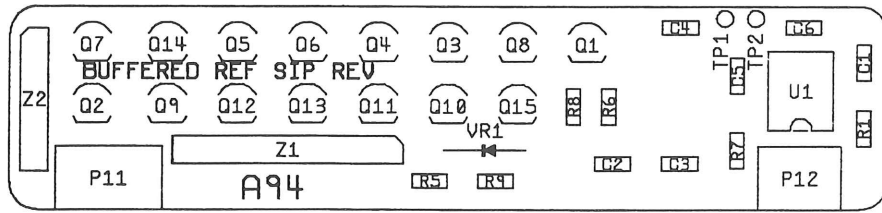


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Figure 6-13. A11A1 DAC Filter SIP PCA

Table 6-14. A11A2 DAC Buffered Reference SIP PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1, 5	CAP, CER, 10PF, +-10%, 100V, COG, 1206	806943	51406	GRMM42-6C0G100F100FT	2	
C 2, 3	CAP, CER, 0.22UF, +80-20%, 50V, Y5V, 1206	740597	51406	GRM42Y5U221Z50VPB	2	
C 4, 6	CAP, CER, 1000FF, +-10%, 50V, COG, 1206	747378	04222	12065A1001KAT050R	2	
P 11	HEADER, 2 ROW, .100CTR, RT ANG, 10 PIN	658112	00779	87230-5	1	
P 12	HEADER, 2 ROW, .100CTR, RT ANG, 8 PIN	424200	00779	87230-4	1	
Q 1- 15	† TRANSISTOR, SI, N-JFET, HI-VOLTAGE, TO-92	832147	17856	J2907-TR3	15	
R 1, 6- 8	† RES, CERM, 1K, +-5%, .125W, 200PPM, 1206	745992	59124	RM73B2BJ102B	4	
R 5	† RES, CERM, 10, +-5%, .125W, 200PPM, 1206	746214	09969	CRCW1206100JBO2	1	
R 9	† RES, CERM, 100K, +-1%, .125W, 100PPM, 1206	769802	59124	RK73H2BF104B	1	
U 1	† IC, OP AMP, DUAL, PRECISION, 8-PIN DIP	783696	64155	LT1013CN8	1	
U 2	† IC, OP AMP, DUAL, LO-NOISE, 8 PIN DIP	707976	18324	NE5532N	1	
VR 1	† ZENER, UNCOMP, 22.0V, 5%, 5.6MA, 0.4W	181073	04713	1N969B	1	
Z 1	RES, CERM, SIP, 10 PIN, 5 RES, 56K, +-2%	529131	91637	CSC10A-03-563G	1	
Z 2	RES, CERM, SIP, 6 PIN, 5 RES, 51K, +-2%	514042	91637	CSC06A-03-513G	1	
NOTES:	† Static sensitive part.					



5700A-1644

Figure 6-14. A11A2 DAC Buffered Reference SIP PCA

Table 6-15. A12 Oscillator Control PCA

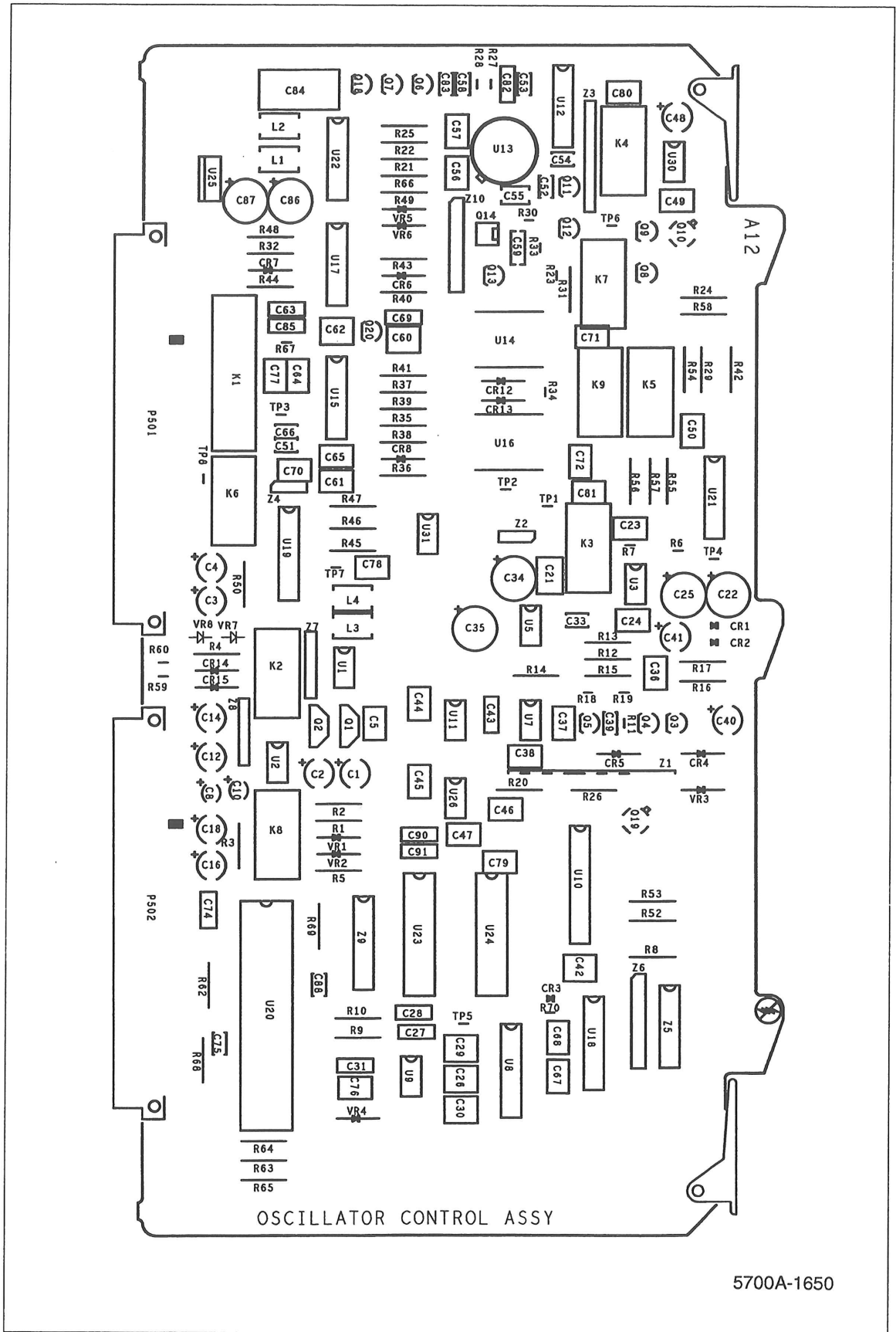
REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1- 4, 12, C 14, 16, 18, C 48	CAP, TA, 4.7UF, +-20%, 25V	807644 807644 807644	56289	199D475X0025BA1	9	
C 8, 10	CAP, AL, 2.2UF, +-20%, 50V, SOLV PROOF	769687	62643	KM50VB2R2M45X85LL	2	
C 21	CAP, CER, 10PF, +-10%, 3000V, COG	817049	60705	564CTK302EE100K	1	
C 22, 25	CAP, TA, 330UF, +-20%, 3V	385963	56289	196D337X0004TE4	2	
C 23, 24, 36- C 38, 44- 47, C 49, 50, 56, C 57, 61, 64, C 65, 67, 68, C 70- 72, 76- C 81	CAP, POLYES, 0.22UF, +-5%, 50V	747519 747519 747519 747519 747519 747519	60935	195.22J0050RCB	27	
C 26, 29, 30, C 42, 60	CAP, POLYES, 0.47UF, +-10%, 50V	697409 697409	84411	J1320R47MF10PCT50V	5	
C 27, 28, 31, C 43, 63	CAP, POLYES, 0.047UF, +-10%, 50V	820548 820548	60935	185-2/473K0050RAB	5	
C 33, 58, 59	CAP, CER, 120PF, +-5%, 50V, COG	721142	04222	SR215A121JAT	3	
C 34, 35, 86, C 87	CAP, TA, 47UF, +-20%, 20V	822403 822403	62643	KME50T47RM6X11RP	4	
C 39, 53	CAP, CER, 330PF, +-5%, 50V, COG	697441	04222	SR215A331JAT	2	
C 40, 41	CAP, TA, 10UF, +-20%, 25V	714774	56289	199D106X0025CA1	2	
C 51, 52, 66	CAP, CER, 82PF, +-2%, 50V, COG	714857	04222	SR215A821GAT	3	
C 54	CAP, CER, 3.3PF, +0.25PF, 100V, COJ	816678	04222	SR211COJ3R3CAA	1	
C 55	CAP, CER, 6.8PF, +-0.25PF, 50V, COG	715243	51406	RPE122COG689K50V	1	
C 62	CAP, POLYES, 1UF, +-10%, 50V	733089	60935	185/1.00K0050RGB	1	
C 69, 90, 91	CAP, POLYES, 0.01UF, +-10%, 50V	715037	60935	185/.01K0050RGB	3	
C 74	CAP, CER, 3300PF, +-5%, 50V, COG	830612	04222	SR215A332JAT	1	
C 75, 88	CAP, CER, 33PF, +-5%, 50V, COG	714543	04222	SR215A330JAT	2	
C 82, 85	CAP, POLYES, 0.022UF, +-10%, 50V	715268	60935	185-2/.022K0050RCB	2	
C 83	CAP, CER, 150PF, +-10%, 50V, X7R	682377	04222	SR215C151CAA	1	
C 84	CAP, POLYPR, 0.47UF, +-10%, 160V	446807	60935	171/.47K160H	1	
CR 1- 3	DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516	03508	1N4448	3	
CR 4, 5	DIODE, SI, SCHOTTKY BARRIER, SMALL SIGNAL	408815	28480	HP5082-6265	2	
CR 6- 8	DIODE, SI, BV= 75.0V, IO=150MA, 500MW	698720	65940	1N4448	3	
CR 12- 15	DIODE, SI, BV= 70.0V, 500 MW	851910	07263	1N4606	4	
H 4- 7	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
H 13	SCREW, MACH, PH, P, STL, 6-32X0.250	152140		COMMERCIAL	1	
HS 1	HEAT DIS, RAD, .54X1.25X.35, TO-8	808204	13103	2268B	1	
K 1	RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078	61529	DS4EML2DC5VCH239	1	
K 2- 9	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307	61529	DS2EML2DC5VCH284	8	
L 1- 4	CHOKE, 6TURN	320911	89536	320911	4	
M 12	OSCILLATOR THERMAL COVER	797696	89536	797696	1	
MP 8, 9	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 10	SHIELD, HIGH VOLTAGE CONTROL	761197	89536	761197	1	
MP 14	SPACER, TRANSISTOR MOUNT, DAP, TO-5	837823	07047	10014	1	
P 501, 502	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
Q 1	TRANSISTOR, SI, 100V, 1W, CASE 152-02	806497	04713	MPSU07	1	
Q 2	TRANSISTOR, SI, 100V, 1W, CASE 152-02	806489	04713	MPSU57	1	
Q 3	TRANSISTOR, SI, PNP, SMALL SIG, SELECTED	851977	04713	SPS9432RLRA	1	
Q 4	TRANSISTOR, SI, NPN SMALL SIGNAL	853478	04713	MPSH10RLRA	1	
Q 5, 9, 11	TRANSISTOR, SI, N-JFET, TO-92	832162	27014	JF832162	3	
Q 6, 7, 12, Q 18, 20	TRANSISTOR, SI, N-CHAN, TO-92, SWITCH	832139 832139	17856	J2903	5	
Q 8, 13	TRANSISTOR, SI, N-JFET, UHF/VHF USE	851972	27014	J310	2	
Q 10	TRANSISTOR, SI, P-MOS, ZENER PROTECTED	306142	21845	M5141	1	
Q 14	TRANSISTOR, SI, NMOS, 1W, 4 PIN DIP	853692	17856	V12948	1	

Table 6-15. A12 Oscillator Control PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
Q 19	TRANSISTOR, SI, N-DMOS FET, TO-72	394122	18324	SD210EE	1	
R 1, 2, 55	RES, CF, 30K, +-5%, 0.25W	574251	65940	R25J303	3	
R 3	RES, MF, 143K, +-1%, 0.125W, 100PPM	719641	59124	MF55D1433F	1	
R 4, 12	RES, CF, 3K, +-5%, 0.25W	573279	59124	CF1-4302JB	2	
R 5, 13, 25, R 48, 52, 53, R 68, 69	RES, CF, 1K, +-5%, 0.25W	573170 573170 573170	59124	CF1-4102JB	8	
R 6	RES, CF, 750, +-5%, 0.25W	810374	59124	CF1-4VT751J	1	
R 7	RES, CF, 200, +-5%, 0.25W	810390	59124	CF1-4VT201J	1	
R 8- 10	RES, MF, 113K, +-1%, 0.125W, 100PPM	291302	91637	CMF551133F T-1	3	
R 11	RES, CF, 20K, +-5%, 0.25W	697110	59124	CF1-4VT203J	1	
R 14	RES, CF, 22K, +-5%, 0.25W	573451	59124	CF1-4223JB	1	
R 15	RES, CF, 5.1K, +-5%, 0.25W	573329	59124	CF1-4512JB	1	
R 16	RES, CF, 15, +-5%, 0.25W	641043	59124	CF1-4150JB	1	
R 17, 39	RES, CF, 510, +-5%, 0.25W	573139	59124	CF1-4511JB	2	
R 18	RES, CF, 47, +-5%, 0.25W	822189	59124	CF1-4VT470J	1	
R 19	RES, CF, 10, +-5%, 0.25W	807669	59124	CF1-4VT100J	1	
R 20	RES, MF, 301K, +-1%, 0.125W, 25PPM	379156	91637	CMG-553013F T-9	1	
R 21	RES, CF, 2K, +-5%, 0.25W	573238	59124	CF1-4202JB	1	
R 22, 24, 29, R 66	RES, CF, 100K, +-5%, 0.25W	573584 573584	59124	CF1-4104JB	4	
R 23, 30, 33	RES, CF, 100K, +-5%, 0.25W	658963	59124	CF1-4VT104J	3	
R 26	RES, MF, 316K, +-1%, 0.125W, 100PPM	720078	91637	CMF-553163F T-1	1	
R 27, 28	RES, CF, 1K, +-5%, 0.25W	780585	59124	CF1-4VT102J	2	
R 31, 37, 45	RES, MF, 866, +-0.1%, 0.125W, 50PPM	838441	91637	CMF-558660B T-2	3	
R 32, 50	RES, CF, 120, +-5%, 0.25W	643494	59124	CF1-4121JB	2	
R 34	RES, MF, 3.61K, +-0.25%, 0.25W, 100PPM	832394	59124	MF55D3611C	1	
R 35, 36, 40, R 41	RES, MF, 649K, +-1%, 0.125W, 100PPM	721597 721597	91637	CMF-556493F T-1	4	
R 38, 42	RES, MF, 357K, +-1%, 0.125W, 25PPM	312793	91637	CMF-3573F T-9	2	
R 43, 63- 65	RES, CF, 20K, +-5%, 0.25W	573444	59124	CF1-4203JB	4	
R 44	RES, CF, 2.2K, +-5%, 0.25W	573246	59124	CF1-4222JB	1	
R 46	RES, CF, 12K, +-5%, 0.25W	573402	59124	CF1-4123JB	1	
R 47	RES, CF, 560, +-5%, 0.25W	573147	59124	CF1-4561JB	1	
R 49, 54, 56	RES, CF, 10K, +-5%, 0.25W	573394	59124	CF1-4103JB	3	
R 57	RES, MF, 60.4K, +-1%, 0.125W, 100PPM	720425	91637	CMF-556042F T-1	1	
R 58	RES, MF, 1K, +-1%, 0.125W, 100PPM	719468	91637	CMF-551001F T-1	1	
R 59, 60	RES, MF, 4.99K, +-1%, 0.125W, 100PPM	721548	59124	MF55D4991F	2	
R 62	RES, CF, 4.7K, +-5%, 0.25W	573311	59124	CF1-4472JB	1	
R 67	RES, MF, 562K, +-1%, 0.125W, 100PPM	757815	59124	MF50DVT5623F	1	
R 70	RES, CF, 1K, +-5%, 0.25W	780585	59124	CF1/4102J	1	
TP 1- 8	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	1SOT1	8	
U 1, 3	IC, OP AMP, 50MHZ, CURRENT FEEDBACK AMP	836262	64762	EL2020CN	2	
U 2, 7	IC, OP AMP, HI-SLEW RATE, 8 PIN DIP	386268	27014	LM318N	2	
U 5, 26	IC, OP AMP, LO-OFFSET VOLTAGE, LO-NOISE	605980	06665	OP-07DP	2	
U 8, 19	IC, CMOS, QUAD BILATERAL SWITCH	910708	17856	DG2444CJ	2	
U 9	IC, OP AMP, DUAL, JFET INPUT, 8 PIN DIP	495192	27014	LF353N	1	
U 10	IC, CMOS, 14BIT DAC, 12BIT ACC, CUR OUT	773101	24355	AD7534KN	1	
U 11, 30, 31	IC, OP AMP, PRECISION, LOW NOISE	782920	64155	LT1007CN8	3	
U 12	IC, OP AMP, DUAL, PRECISION MATCHED	782375	64155	OP227GN	1	
U 13	IC, OP AMP, JFET INPUT, WIDE BANDWIDTH	808105	64762	EL2006CG	1	
U 14, 16	RMS CONVERTER TESTED 400 OHM-A GRADE	842591	89536	842591	2	
U 15	IC, OP AMP, QUAD JFET INPUT, 14 PIN DIP	659748	01295	TL074CN	1	
U 17	IC, ARRAY, 5 TRANS, NPN, 3 ISO, 2 DIFF CON	248906	04713	MC3346P	1	

Table 6-15. A12 Oscillator Control PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
U 18	⚡ IC, CMOS, 8-1 LINE MUX/DEMUX ANALOG SW	836304	04713	MM74HC4051N	1	
U 20	⚡ IC, CMOS, PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1	
U 21, 22	⚡ IC, COMPARATOR, QUAD, 14 PIN DIP	387233	27014	LM339N	2	
U 23, 24	⚡ IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	2	
U 25	⚡ IC, VOLT REG, FIXED, +5 VOLTS, 1.5 AMPS	428847	04713	MC7805T	1	
VR 1, 2	⚡ ZENER, UNCOMP, 10.0V, 5%, 12.5MA, 0.4W	698696	04713	1N748	2	
VR 3	⚡ ZENER, UNCOMP, 5.1V, 5%, 20MA, 0.4W	722926	04713	1N751A	1	
VR 4	⚡ ZENER, UNCOMP, 6.8V, 2%, 175.0MA, 5.0W	325845	04713	1N5342C	1	
VR 5, 6	⚡ ZENER, UNCOMP, 6.8V, 5%, 37.0MA, 1.0W	454595	14552	1N4736A	2	
VR 7, 8	⚡ ZENER, UNCOMP, 5.1V, 5%, 20.0MA, 0.5W	853700	04713	1N5231B	2	
Z 1	⚡ RES, NET, THK F,	760686	89536	760686	1	
Z 2, 4	⚡ RNET, 8840A OUTPUT DIVIDER	655811	89536	655811	2	
Z 3	⚡ RES, NET, THN F FINAL TEST	760645	89536	760645	1	
Z 5	RES, CERM, DIP, 14 PIN, 7 RES, 10K, +-5%	364000	89536	364000	1	
Z 6	RES, CERM, SIP, 8 PIN, 7 RES, 1K, +-2%	414557	91637	CSC08A-01-102G	1	
Z 7, 8	⚡ RES NET THK F,	785105	89536	785105	2	
Z 9	RES, CERM, DIP, 16 PIN, 8 RES, 5.1K, +-5%	544130	91637	MDP16-03-512J	1	
Z 10	RES, CERM, SIP, 8 PIN, 4 RES, 4.7K, +-2%	573881	91637	CSC08A-03-102G	1	
NOTES:	⚡ Static sensitive part.					



5700A-1650

Figure 6-15. A12 Oscillator Control PCA

Table 6-16. A13 Oscillator Output PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
A 1	OSCILLATOR WIDEBAND SMD PCA				1	1
C 2- 4, 16, C 20, 23, 26- C 28, 32, 33, C 46, 47, 51, C 52, 54, 55, C 68- 71, 88- C 92,102-104, C 110,111,113, C 114	CAP, POLYES, 0.22UF, +-5%, 50V	747519 747519 747519 747519 747519 747519 747519 747519	60935	185.22/J/0050/R/C/B	33	
C 116, 117	CAP, AL, 10UF, +-20%, 63V, SOLV PROOF	816843	62643	KME63T1-RMX11RP	2	
C 5, 14, 30	CAP, CER, 15PF, +-20%, 50V, COG	697524	04222	SR215A150MAT	3	
C 6, 15, 31	CAP, CER, 82PF, +-2%, 50V, COG	714857	04222	SR215A150MAT	3	
C 7, 8	CAP, CER, 0.01UF, +-10%, 100V, X7R	557587	04222	SR21C103MAT	2	
C 17, 29	CAP, CER, 2.7PF, +-0.25PF, 50V, COG	773044	51406	RPE122C0G279K50V	2	
C 19, 34, 85	CAP, CER, 56PF, +-2%, 50V, COG	714378	04222	SR215A560GAT	3	
C 21, 37	CAP, MICA, 560PF, +-1%, 300V	494609	93790	CD15FC561F0	2	
C 22, 38	CAP, POLYCA, 6150PF, +-1%, 50V	800466	84411	JF 125	2	
C 24, 40	CAP, POLYCA, 0.0621UF, +-1%, 50V	800482	84411	JF 152	2	
C 25, 41	CAP, POLYCA, 0.622UF, +-1%, 50V	800474	84411	JF 125	2	
C 44, 123	CAP, CER, 10PF, +-20%, 50V, COG	721589	04222	SR215A100MAT	2	
C 45	CAP, POLYFR, 0.033UF, +-10%, 63V	721050	68919	MKP20-336-K-63V	1	
C 48, 84	CAP, AL, 10UF, +-20%, 16V, NP, SOLV PROOF	697177	62643	KME-BP16VB10RM5X11RP	2	
C 49	CAP, AL, 470UF, +-20%, 10V, SOLV PROOF	822387	62643	KME10VB471M8X11RP	1	
C 56- 59	CAP, TA, 22UF, +-20%, 10V	658971	56289	199D226X0010CA1	4	
C 60, 61, 108, C 109	CAP, TA, 4.7UF, +-20%, 25V	807644 807644	56289	199D475X0025BA1	4	
C 62	CAP, POLYES, 0.47UF, +-10%, 50V	697409	84411	J1320R47MF10PCT50V	1	
C 75	CAP, CER, 120PF, +-5%, 50V, COG	721142	04222	SR215A121JAT	1	
C 76, 77, 124, C 125	CAP, CER, 1000PF, +-20%, 50V, X7R	697458 697458	89536	697458	4	
C 78, 79	CAP, POLYES, 0.01UF, +-10%, 50V	715037	60935	185-.01-K-0050-R	2	
C 80, 81	CAP, POLYES, 0.1UF, +-10%, 50V	649913	60935	185-2/0.1K0050RAB	2	
C 82, 83	CAP, POLYES, 1UF, +-10%, 50V	733089	60935	185/1.00K0050RGB	2	
C 93- 99, 106, C 107	CAP, TA, 10UF, +-20%, 25V	714774 714774	56289	199D106X0025CA1	9	
C 100, 101, 118	CAP, AL, 2.2UF, +-20%, 50V, SOLV PROOF	769687	62643	KM50VB2R2M45X85LL	3	
C 105	CAP, CER, 3300PF, +-5%, 50V, COG	830612	04222	SR215A332JAT	1	
C 112	CAP, CER, 4.7PF, +-0.25PF, 50V, COG	721837	51406	RPE122C0G479K50V	1	
C 115	CAP, CER, 6800PF, +-5%, 100V, COG	816710	04222	SR211A682JAA	1	
C 119, 120	CAP, CER, 33PF, +-5%, 50V, COG	714543	04222	SR215A330JAT	2	
C 122	CAP, CER, 27PF, +-2%, 100V, COG	816652	04222	SR211A270GAT	1	
CR 1- 11, 22, CR 23	DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516 659516	03508	1N4448	13	
CR 13- 20	DIODE, SI, N-JFET, CURRENT REG, IF=5.3 MA	852116	17856	J9010-TR3	8	
H 4- 7	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
H 9- 12, 14 H 15	SCREW, MACH, PH, P, STL, 6-32X0.250	152140 152140		COMMERCIAL	6	
HS 1- 3	HEAT DIS, RAD, .54X1.25X.35, TO-8	808204	13103	2268B	3	
HS 4- 7	HEAT DIS, CLIP, .80X.85X.30, CASE 152	800136	13103	6046PB	4	
HS 9, 10	HEAT DIS, SLEEVE, TO-5	380220	13103	1115B	2	
					1	
K 1	RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078	61529	DS4EML2DC5VCH239	1	
K 2- 4	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307	61529	DS2EML2DC5VH284	3	
L 1- 5, 13, L 14	CHOKE, 6TURN	320911 320911	89536	320911	7	
L 6- 12	CORE, TORCID, FERRITE, .047X.138X.118	321182	02114	56-590-65-4B	7	
L 15	TRANSFORMER, PULSE	660589	89536	660589	1	

Table 6-16. A13 Oscillator Output PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
MP 1	OSCILLATOR HEAT SINK RETAINER	775296	89536	775296	1	
MP 2, 3	EJECTOR, PWB, NYLON	494724	32559	CF-66	2	
MP 4- 6	SPACER, TRANSISTOR MOUNT, DAP, TO-5	152207	07047	10123-DAP	3	
MP 8	AIR DUCT, OSCILLATOR	802959	89536	802959	1	
MP 9	TAPE, SPONGE, SILICONE, W/LINER, .125X.5W	853387	71643	100S-1/8-500	2	
MP 13- 15	SPACER, TRANSISTOR MOUNT, DAP, TO-5	837823	07047	10014	3	
P 511, 512	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
Q 6	TRANSISTOR, SI, N-JFET, TO-92	832162	27014	JF832162	1	
Q 7	TRANSISTOR, SI, N-DMOS FET, TO-72	394122	18324	SD210EE	1	
Q 8	TRANSISTOR, SI, NPN, SM SIGNAL, HI-FREQ	272930	04713	2N5943	1	
Q 9	TRANSISTOR, SI, NPN, SMALL SIGNAL	698225	04713	2N3904RLRA2	1	
Q 10, 11	TRANSISTOR, SI, 100V, 1W, CASE 152-02	806497	04713	MPSU07	2	
Q 13	TRANSISTOR, SI, NPN, 1 GHZ, VIDEO	601242	04713	BFQ232A	1	
Q 14	TRANSISTOR, SI, PNP, 70, 400 MA, TO-39	866769	04713	MRF545	1	
Q 15	TRANSISTOR, SI, PNP, T092	698233	04713	2N3906RLRA	1	
Q 16, 17	TRANSISTOR, SI, 100V, 1W, CASE 152-02	806489	04713	MPSU57	2	
R 1, 6, 43, R 60, 65	RES, MF, 2K, +-1%, 0.125W, 100PPM	816629 816629	59124	MF50DVT2001F	5	
R 2, 40, 64 R 67, 69	RES, CF, 1K, +-5%, 0.25W	780585 780585	59124	CF1-4VT102J	9	
R 7, 9, 11, R 18	RES, CF, 200, +-5%, 0.25W	810390 810390	59124	CF1-4VT201J	4	
R 12, 13, 83	RES, MF, 4.99K, +-1%, 0.125W, 100PPM	721548	59124	MF55D4991F	3	
R 19, 37, 50, R 70, 79	RES, CF, 10K, +-5%, 0.25W	697102 697102	59124	CF1-4VT103J	5	
R 25	RES, CF, 39K, +-5%, 0.25W	912621	59124	CF1/4 393J	1	
R 33, 38, 51, R 78	RES, CF, 16K, +-5%, 0.25W	714303 714303	59124	CF1-4VT163J	4	
R 28	RES, MF, 1K, +-1%, 0.125W, 100PPM	816595	59124	MF50DVT1001F	1	
R 29, 62, 68	RES, MF, 10K, +-1%, 0.125W, 100PPM	658914	89536	658914	3	
R 32	RES, CF, 20K, +-5%, 0.25W	697110	59124	CF1-4VT203J	1	
R 35, 36, 47, R 52, 53, 59, R 63, 74, 75, R 80- 82, 107	RES, CF, 4.7K, +-5%, 0.25W	721571 721571 721571	59124	CF1-4VT472J	13	
R 39, 54, 76	RES, CF, 12K, +-5%, 0.25W	757799	59124	CF1-4VT123J	3	
R 41	RES, CF, 100K, +-5%, 0.25W	658963	59124	CF1-4VT104J	1	
R 42	RES, MF, 10.5K, +-1%, 0.125W, 100PPM	816611	59124	MF50DVT1052F	1	
R 48	RES, CF, 51K+-5%, 0.25W	747550	59124	CF1-4VT513J	1	
R 49	RES, CF, 270, +-5%, 0.25W	810424	59124	CF1-4VT271J	1	
R 55, 77	RES, CF, 24K, +-5%, 0.25W	697599	59124	CF1/4 243J	2	
R 56	RES, MF, 34.8K, +-0.1%, 0.125W, 50PPM	772582	59124	MF50CVT3482B	1	
R 57	RES, CF, 43K, +-5%, 0.25W	821777	59124	CF1-4VT433J	1	
R 58	RES, CF, 47K, +-5%, 0.25W	721787	59124	CF1-4VT473J	1	
R 61, 66	RES, MF, 7.87K, +-1%, 0.125W, 100PPM	810549	59124	MF50DVT7871F	2	
R 71, 73	RES, CF, 3K, +-5%, 0.25W	810366	59124	CF1-4VT302J	2	
R 84, 85	RES, CF, 33K, +-5%, 0.25W	733667	59124	CF1-4VT333J	2	
R 87, 94	RES, CF, 100, +-5%, 0.25W	810465	59124	CF1-4VT101J	2	
R 88	RES, CF, 4.7, +-5%, 0.25W	816637	59124	CF1-4VT4R7J	1	
R 89, 90, 97, R 98	RES, CF, 10, +-5%, 0.25W	807669 807669	59124	CF1-4VT100J	4	
R 91, 99	RES, CF, 2.7, +-5%, 0.25W	640953	59124	CF1-42R7J	2	
R 92, 93, 95, R 96	RES, CF, 3.9, +-5%, 0.25W	810473 810473	59124	CF1-4VT3R9J	4	
R 100, 101	RES, MF, 30.1K, +-1%, 0.125W, 100PPM	772061	59124	MF50DVT3012F	2	
S 1	SWITCH, SLIDE, SPDT	477984	79727	GS-115	1	

Table 6-16. A13 Oscillator Output PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
TP 1- 10	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	10	
U 2	⚡ IC, VOLT REG, FIXED, -12 VOLTS, 1.5 AMPS	381665	04713	MC7912CT	1	
U 3, 6, 9	⚡ IC, OP AMP, JFET INPUT, WIDE BANDWIDTH	808105	64762	EL2006CG	3	
U 5, 7, 11	⚡ RES NET HYBRID, TESTED	793885	89536	793885	3	
U 8, 29	⚡ IC, OP AMP, HI-SLEW RATE, 8 PIN DIP	386268	27014	LM318N	2	
U 10	⚡ IC, MULTIPLIER/DIV, 4 QUAD, 10MHZ, DIP	904714	24355	AD734BN	1	
U 15, 16, 19	⚡ IC, BPLR, FOUR-QUADRANT MULT, 16 PIN DIP	343335	04713	MC1494L	3	
U 12, 32, 33	⚡ IC, CMOS, OCTL D F/F W/3-STATE, +EDG TRG	585364	04713	MC74HCT374N	3	
U 17, 27	⚡ IC, CMOS, DUAL 4-1 LINE MUX/DMUX ANL SW	429886	04713	MC14052BCP	2	
U 18	⚡ IC, OP AMP, JFET INPUT, 8 PIN DIP	472779	27014	LF356N	1	
U 20	⚡ IC, COMPARATOR, DUAL, LO-PWR, 8 PIN DIP	478354	27014	LM393N	1	
U 21	⚡ IC, FTTL, QUAD 2 INPUT NAND GATE	654640	04713	MC74FOON	1	
U 22	⚡ IC, FTTL, DUAL JK F/F, -EDG TRIG	781211	18324	74F112N	1	
U 23	⚡ IC, COMPARATOR, DUAL, HI-SPEED, 14 DIP	647123	27014	LM319N	1	
U 24	⚡ IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	1	
U 25	⚡ IC, CMOS, 8-1 LINE MUX/DEMUX ANALOG SW	836304	04713	MM74HC4051N	1	
U 26	⚡ IC, CMOS, PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1	
U 28	⚡ IC, CMOS, DUAL 8 BIT DAC, CURRENT OUTPUT	722272	24355	AD7528JN	1	
U 31	⚡ IC, OP AMP, DUAL, JFET INPUT, 8 PIN DIP	495192	27014	LF353N	1	
VR 3, 4	⚡ ZENER, UNCOMP, 9.1V, 5%, SMA, 0.350W	853788	04713	IN5239BRR1	2	
VR 7	⚡ ZENER, UNCOMP, 8.2V, 5%, 20MA, 0.4W	810309	04713	1N756ARR1	1	
Z 1	RES, CERM, SIP, 6 PIN, 5 RES, 39K, +-2%	831065	91637	CSC06A-01-393G	1	
Z 2	RES, CERM, DIP, 14 PIN, 7 RES, 10K, +-5%	364000	91637	MDP14-03-103J	1	
Z 3	RES, CERM, SIP, 8 PIN, 7 RES, 1K, +-2%	414557	91637	CSC08A-01-102G	1	
Z 4, 5	RES, CERM, SIP, 8 PIN, 4 RES, 10K, +-2%	513309	91637	CSC08A-03-103G	2	
Z 6	RES, CERM, SIP, 6 PIN, 5 RES, 3.6K, +-2%,	478818	91637	CSC06A-01-362G	1	
NOTES:	⚡ Static sensitive part. 1. NON PROCURABLE. ORDER NEXT HIGHER ASSEMBLY.					

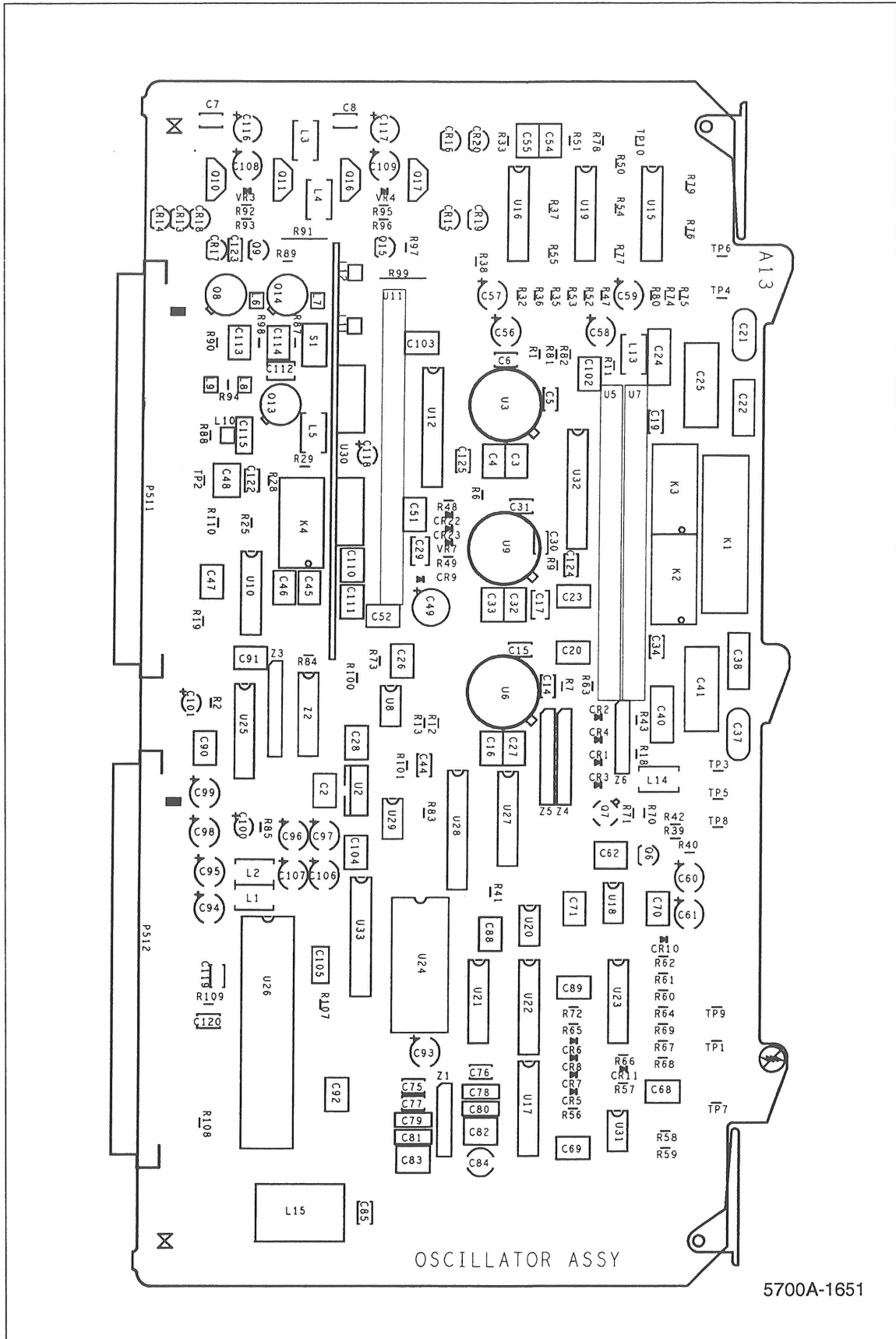
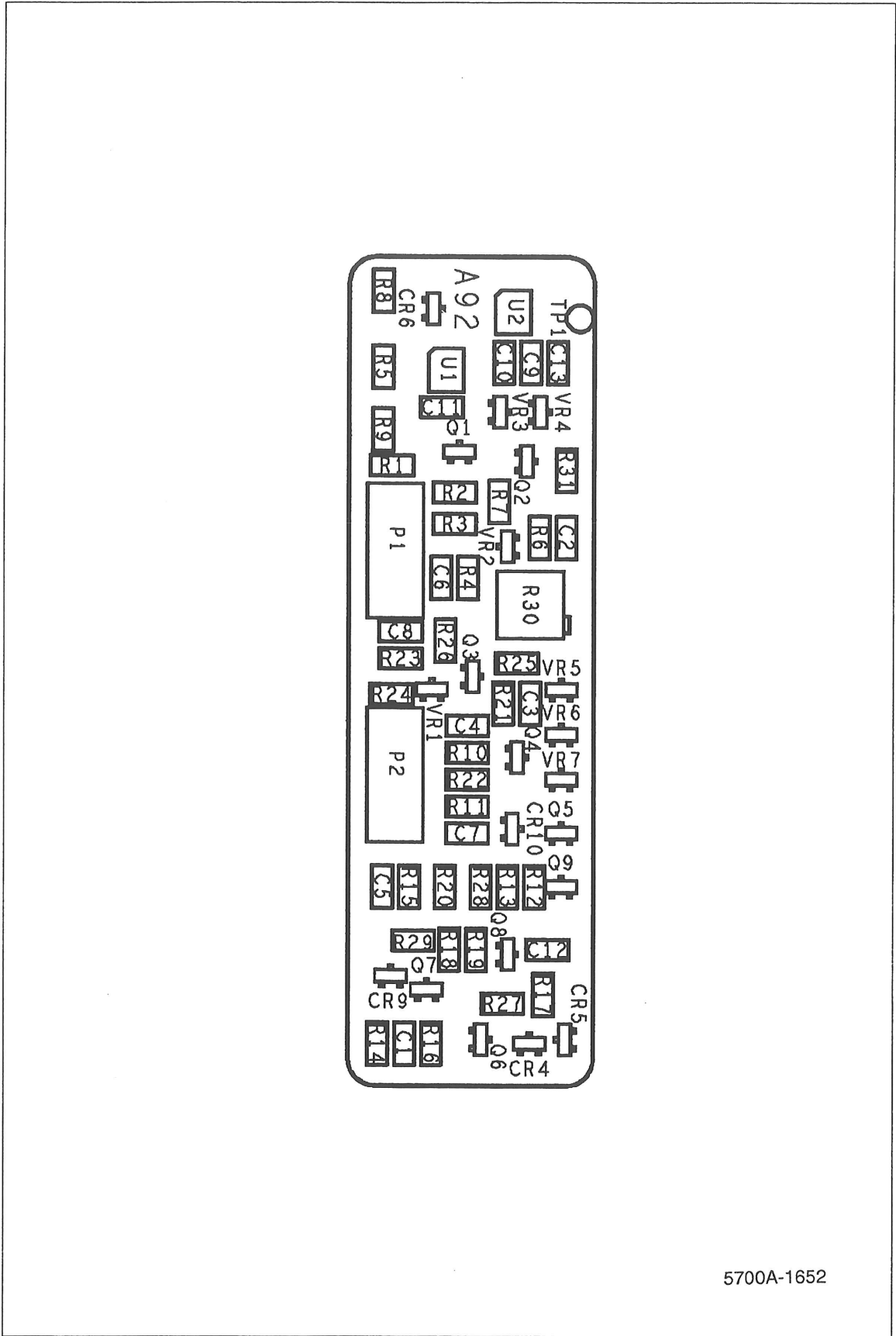


Figure 6-16. A13 Oscillator Output PCA

Table 6-17. A13A1 Oscillator Wideband SMD PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1, 3, 4, C 6- 8, 12, C 13	CAP, CER, 0.22UF, +-80-20%, 50V, Y5V, 1206	740597 740597 740597	51406	GRM42Y5U221Z50VPB	8	
C 2	CAP, CER, 100PF, +-10%, 50V, C0G, 1206	740571	04222	12065A101KAT050R	1	
C 5	CAP, CER, 10PF, +-10%, 100V, C0G, 1206	806943	51406	GRMM426C0G100F100PT	1	
C 9	CAP, CER, 470PF, +-10%, 50V, C0G, 1206	747360	04222	12065A471KAT050R	1	
C 10	CAP, CER, 1000PF, +-10%, 50V, C0C, 1206	747378	04222	12065A1001KAT050R	1	
C 11	CAP, CER, 0.01UF, +-10%, 50V, X7R, 1206	747261	04222	12065C103KAT050R	1	
CR 4- 6, 9 CR 10	DIODE, SI, BV=70.0V, IO=50MA, DUAL, SOT23	742320 742320	02114	BAV99	5	
F 1, 2	HEADER, 2 ROW, .100CTR, RT ANG, 12 PIN	806935	22526	68715-412	2	
Q 1	TRANSISTOR, SI, N-JFET, SOT23	844584	17856	SSTH20	1	
Q 2, 4, 5, Q 7	TRANSISTOR, SI, NPN, SMALL SIGNAL, SOT23	845438 845438	04713	MMBTH10	4	
Q 3	TRANSISTOR, SI, PNP, SMALL SIGNAL, SOT23	742684	04713	MMBT3906T1	1	
Q 6, 8	TRANSISTOR, SI, PNP, SMALL SIGNAL, SOT23	838516	04713	MMBTH81T1	2	
Q 9	TRANSISTOR, SI, NPN, SMALL SIGNAL, SOT23	742676	04713	MMBT3904T1	1	
R 1, 9	RES, CERM, 2K, +-5%, .125W, 200PPM, 1206	746461	59124	RM73B2BJ202J	2	
R 2	RES, CERM, 2.7K, +-5%, .125W, 200PPM, 1206	746503	91637	CRCW1206J2700B02	1	
R 3, 22	RES, CERM, 330, +-5%, .125W, 200PPM, 1206	746370	59124	RM73B2BJ331B	2	
R 4, 26	RES, CERM, 510, +-5%, .125W, 200PPM, 1206	746388	59124	RM73B2BJ511B	2	
R 5	RES, CERM, 5.1K, +-5%, .125W, 200PPM, 1206	746560	59124	RM73B2BJ512KB	1	
R 6, 23, 31	RES, CERM, 3.9K, +-5%, .125W, 200PPM, 1206	746545	91637	CRCW12063900JB02	3	
R 7, 16, 18, R 19, 21, 27- R 29	RES, CERM, 47, +-5%, .125W, 200PPM, 1206	746263 746263 746263	59124	RM73B2BJ470B	8	
R 8	RES, CERM, 100K, +-5%, .125W, 200PPM, 1206	740548	59124	RM73B2BJ100KB	1	
R 10	RES, CERM, 56, +-5%, .125W, 200PPM, 1206	807727	91637	CRCW1206560JB02	1	
R 11, 17	RES, CERM, 150, +-1%, .125W, 100PPM, 1206	772780	91637	CRCW1206151FB02	2	
R 12	RES, CERM, 27, +-5%, .125W, 200PPM, 1206	807735	59124	RM73B2BJ270B	1	
R 13	RES, CERM, 100, +-5%, .125W, 200PPM, 1206	746297	59124	RM73B2BJ101B	1	
R 14	RES, CERM, 620, +-5%, .125W, 200PPM, 1206	745984	09969	CRCW1206621JB02	1	
R 15	RES, CERM, 15K, +-5%, .125W, 200PPM, 1206	746628	59124	RM73B2BJ153B	1	
R 20	RES, CERM, 390, +-5%, .125W, 200PPM, 1206	740498	91637	CRCW1206391JB02	1	
R 24	RES, CERM, 910, +-5%, .125W, 200PPM, 1206	769257	59124	RM73B2BJ911B	1	
R 25	RES, CERM, 1.8K, +-5%, .125W, 200PPM, 1206	746453	59124	RM73B2BJ182B	1	1
R 30	RES, VAR, CERM, 1K, +-10%, 0.5W	912360	32997	3296P-1-102	1	
U 1	IC, OP AMP, ULTRA-LOW-NOISE, SOIC	783001	01295	OP07CDR	1	
U 2	IC, OP AMP, SINGLE, LOW NOISE FAST, SOIC	783720	01295	TL071CDR	1	
VR 1, 5- 7	ZENER, UNCOMP, 6.2V, 5%, 20MA, .35W, SOT23	782441	04713	MMBZ5234BT1	4	
VR 2	ZENER, UNCOMP, 22.0V, 5%, 5.6MA, SOT23	831230	04713	MMBZ5251BT1	1	
VR 3, 4	ZENER, UNCOMP, 3.3V, 5%, 2MA, .350W, SOT23	807008	04713	MMBZ5226T1	2	
NOTES:	† Static sensitive part. 1. R25 is selected at test as one of the following: 1.8K (746453), 2K (746461), or 2.2K					



5700A-1652

Figure 6-17. A13A1 Oscillator Wideband SMD PCA

Table 6-18. A14 High Voltage Control PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1	CAP, POLYES, 0.72UF, +-20%, 1300V	853929	84411	JF154	1	
C 2	CAP, POLYES, 0.1UF, +-20%, 1400V	821512	84411	JF129	1	
C 3, 4	CAP, AL, 470UF, +-20%, 16V, SOLV PROOF	772855	61058	ECEA1CU471	2	
C 5	CAP, POLYES, 1UF, +-10%, 50V	733089	60935	185/1.00/K0050RGB	1	
C 6, 7	CAP, TA, 10UF, +-20%, 35V	816512	56289	199D106X9035DA1	2	
C 8, 9	CAP, TA, 10UF, +-20%, 63V	816843	62643	KME63T10RMX11RP	2	
C 10, 20, 24- C 32	CAP, POLYES, 0.1UF, +-10%, 50V	649913 649913	60935	185-2/0.1K0050RAB	11	
C 11- 13	CAP, TA, 22UF, +-20%, 10V	658971	56289	199D226X0010CA1	3	
C 14	CAP, CER, 330PF, +-5%, 50V, COG	697441	04222	SR21A5331JAT	1	
C 15	CAP, CER, 120PF, +-5%, 50V, COG	721142	04222	SR215A121JAT	1	
C 17	CAP, POLYES, 2200PF, +-10%, 50V	832683	60935	185-2/2200K0050RAB	1	
C 18	CAP, TA, 1UF, +-20%, 35V	697417	56289	199D105X0035AA1	1	
C 21, 22	CAP, CER, 33PF, +-5%, 50V, COG	714543	04222	SR215A330JAT	2	
C 23	CAP, CER, 1000PF, +-20%, 50V, X7R	697458	89536	697458	1	
C 33	CAP, CER, 27PF, +-2%, 100V, COG	816652	04222	SR211A270GAT	1	
CR 1- 4	DIODE, SI, HIGH VOLTAGE, PIV=2K, 40MA	851956	14099	PF20. TR	4	
CR 5	DIODE, SI, RECT, BRIDGE, BV= 50V, IO=3.0A	586115	30800	KBL005	1	
CR 6- 12	DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516	03508	1N4448	7	
H 4- 7	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
H 8, 9, 11	SCREW, MACH, PH, P, STL, 6-32X0.250	152140		COMMERCIAL	3	
J 1	CONN, MATE-N-LOK, HEADER, 14 PIN	845318	27264	39-28-8140	1	
K 1, 2, 4, K 8, 10, 11, K 14	RELAY, ARMATURE, 2 FORM C, 5V	733063 733063 733063	33297	MR602-5SR	7	
K 3, 5, 6, K 9, 12, 13, K 15, 16	RELAY, ARMATURE, 1 FORM A/1 FORM B, 5VDC	831545 831545 831545	61529	DSP1E-DC5V	8	
K 7	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307	61529	DS2EML2DC5VH284	1	
L 1	CHOKE, 6TURN	320911	89536	320911	1	
MP 1, 2	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 3	SHIELD, HIGH VOLTAGE CONTROL	761197	89536	761197	1	
MP 5	CABLE ACCESS, TIE, 5.50L, .10W, 1.25 DIA	530360	06383	SST-1.5M	1	
MP 8	HEAT DIS, PRESS ON, TO-5	418384	13103	2225B	1	
MP 10, 13	WASHER, FLAT, STL, .149, .375, .031	110270	86928	5202-12-31	2	
P 611, 612	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
Q 2	TRANSISTOR, SI, NPN, SMALL SIGNAL	698225	04713	2N3904RLRA2	1	
Q 3, 4	TRANSISTOR, SI, P-JFET, TO-92	852111	17856	J6006-TR3	2	
R 1, 2	RES, CC, 47, +-5%, 0.5W	159608	01121	EB4705	2	
R 3- 5	RES, CC, 200K, +-5%, 1W	109926	01121	GB2041	3	
R 6, 8	RES, MF, 23.2, +-1%, 0.5W, 100PPM	200790	89536	200790	2	
R 65, 66	RES, CF, 10, +-5%, 0.25W	807669 807669	59124	CF1-4VT100JB	2	
R 7	RES, CF, 22K, +-5%, 0.25W	747535	59124	CF1-4VT223J	1	
R 9- 12, 64	RES, CF, 1.5M, +-5%, 0.25W	649962	59124	CF1-4VT155J	5	
R 13	RES, CF, 9.1K, +-5%, 0.25W	706663	59124	CF1-4VT912J	1	
R 14, 15	RES, CF, 620, +-5%, 0.25W	810408	59124	CF1-4VT621J	2	
R 17, 46, 55	RES, CF, 100K, +-5%, 0.25W	658963	59124	CF1-4VT104J	3	
R 18	RES, CF, 1K, +-5%, 0.25W	780585	59124	CF1-4VT102J	1	
R 19	RES, MF, 162K, +-1%, 0.125W, 100PPM	817569	59124	MF50DVT1623F	1	
R 20	RES, MF, 412K, +-1%, 0.125W, 50PPM	714287	59124	MF50CVT4123FT	1	
R 22	RES, CC, 3K, +-5%, 0.5W	109090	89536	109090	1	
R 21, 24, 33, R 34, 47, 56, R 68, 69	RES, CF, 10K, +-5%, 0.25W	697102 697102 697102	59124	CF1-4VT103J	8	
R 23	RES, CF, 200K, +-5%, 0.25W	681841	59124	CF1-4VT204J	1	

Table 6-18. A14 High Voltage Control PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
R 25	RES,CF, 750K,+5%, 0.25W	747543	59124	CF1-4VT754J	1	
R 26, 44, 45	RES,MF, 100K,+1%, 0.125W, 100PPM	757807	59124	MF50DVT1003F	3	
R 27, 29	RES,MF, 36.5K,+1%, 0.125W, 100PPM	820324	59124	MF50DVT3652F	2	
R 28	RES,MF, 20.5K,+1%, 0.125W, 100PPM	655233	59124	MF50DVT2052F	1	
R 30- 32	RES,MF, 18.2K,+1%, 0.125W, 100PPM	756429	59124	MF50DVT1822F	3	
R 35- 39, 50, R 52	RES,MF, 196K,+1%, 0.125W, 100PPM	769984 769984	59124	MF50DVT1963F	7	
R 40, 41	RES,MF, 464K,+1%, 0.125W, 100PPM	772020	59124	MF50DVT4643F	2	
R 42	RES,CF, 1.5K,+5%, 0.25W	810432	59124	CF1-4VT152J	1	
R 43	RES,MF, 301K,+1%, 0.125W, 100PPM	655274	59124	MF50DVT3013F	1	
R 54	RES,CF, 2K,+5%, 0.25W	810457	59124	CF1-4VT202J	1	
R 57, 58	RES,CF, 750,+5%, 0.25W	810374	59124	CF1-4VT751J	2	
R 59	RES,CF, 16K,+5%, 0.25W	714303	59124	CF1-4VT163J	1	
R 60, 61	RES,CF, 20K,+5%, 0.25W	697110	59124	CF1-4VT203J	2	
R 62, 63	RES,CF, 3K,+5%, 0.25W	810366	59124	CF1-4VT302J	2	
R 67	RES,CF, 3.9,+5%, 0.25W	810473	59124	CF1-4VT3R9J	1	
R 70, 71	RES,CC, 4.7M,+5%, 0.25W	220046	01121	CB4775	2	
T 1	TRANSFORMER, HIGH VOLTAGE	775288	89536	775288	1	
TP 1- 6	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	1SOT1	6	
U 1	⚡ IC, OP AMP, DUAL, LO OFFST, VOLT, LO-DRIFT	685164	27014	LF412CN	1	
U 2	⚡ IC, OP AMP, QUAD, JFET INPUT, 14 PIN DIP	483438	01295	TL084CN	1	
U 3	⚡ IC, OP AMP, SINGLE, HIGH VOLTAGE	782342	34371	HA2-2645-5	1	
U 4	⚡ IC, CMOS, MONOSTABL/ASTABL MULTIVIBRATR	535575	54590	CD4047BE	1	
U 6, 7	⚡ IC, CMOS, QUAD BILATERAL SWITCH	910708	17856	DG444CJ	2	
U 8	⚡ IC, CMOS, HEX INVERTER, UNBUFFERED	741199	04713	MC74HCU04N	1	
U 9	⚡ IC, CMOS, PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1	
U 10- 13	⚡ IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	4	
U 14	⚡ IC, CMOS, 8-1 LINE MUX/DEMUX ANALOG SW	836304	04713	MM74HC4051N	1	
VR 1	⚡ ZENER, UNCOMP, 6.8V, 5%, 20.0MA, 0.4W	820431	04713	1N754ARR1	1	
VR 2, 3	⚡ DIODE, TRANS SUPPRESSOR, 400V, 5%	845003	24444	1N6456A	2	
VR 4, 5	⚡ ZENER, UNCOMP, 16.0V, 5%, 15.5MA, 1.0W	313221	04713	1N4745ARL	2	
VR 6, 7	⚡ ZENER, UNCOMP, 3.3V, 5%, 20.0MA, 0.4W	820423	04713	1N746ARR1	2	
VR 8	⚡ ZENER, UNCOMP, 18.0V, 5%, 7.0MA, 0.4W	327973	89536	327973	1	
Z 1	RES, CERM, SIP, 8 PIN, 7 RES, 10K, +-2%	412924	91637	CSC08A-01-103G	1	
NOTES:	⚡ Static sensitive part.					

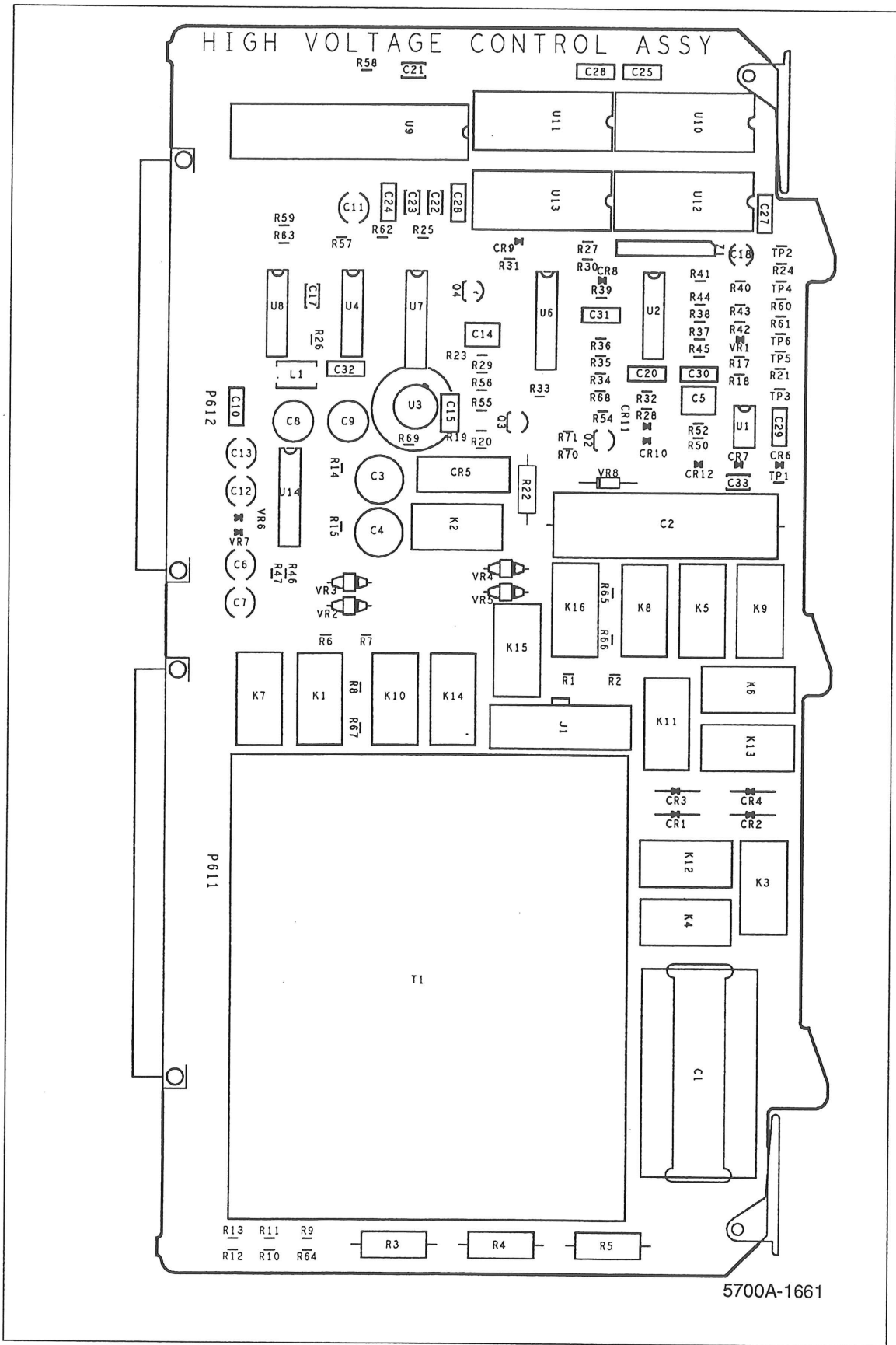


Figure 6-18. A14 High Voltage Control PCA

Table 6-19. A15 High Voltage/High Current PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 2, 22, 29, C 42	CAP, POLYES, 0.01UF, +-10%, 50V	715037 715037	60935	185-2/.01K0050R	4	
C 4	CAP, POLYPR, 0.022UF, +-5%, 1500V	806968	40402	MKP1841-322/134	1	
C 5, 15- 17, C 20, 21, 23- C 28, 32, 33, C 35, 38, 40	CAP, POLYES, 0.1UF, +-10%, 50V	649913 649913 649913 649913	60935	185-2/0.1K0050RAB	17	
C 6	CAP, POLYES, 0.047UF, +-10%, 50V	820548	60935	185-2/473K0050RAB	1	
C 7	CAP, CER, 180PF, +-2%, 50V, COG	820522	04222	SR215A181GAT	1	
C 8	CAP, CER, 680PF, +-5%, 50V, COG	743351	04222	SR215A681JAT	1	
C 10	CAP, CER, 82PF, +-2%, 50V, COG	714857	04222	SR215A820GAT	1	
C 11	CAP, CER, 47PF, +-20%, 50V, COG	706705	04222	SR215A470MAT	1	
C 12, 13, 43	CAP, POLYES, 0.47UF, +-10%, 50V	697409	84411	J1320R47MF10PCT50V	3	
C 14, 19	CAP, TA, 2.2UF, +-10%, 35V	697433	56289	199D225X9035BF	2	
C 18	CAP, CER, 100PF, +-5%, 50V, COG	831495	04222	SR225A101JAT	1	
C 30, 31, 37, C 39	CAP, TA, 10UF, +-20%, 35V	816512 816512	56289	199D106X9035DA1	4	
C 34	CAP, TA, 22UF, +-20%, 10V	658971	56289	199D226X0010CA1	1	
C 41	CAP, POLYES, 0.22UF, +-10%, 50V	706028	60935	185-2/.22/K0050RCB	1	
CR 1, 4, 11- CR 16	⚡ DIODE, SI, BV= 75.0V, IO=150MA, 500MW	698720 698720	65940	1N4448	8	
CR 5, 6, 9, CR 10, 22, 23	DIODE, SI, 100 PIV, 1.0 AMP	742874 742874	65940	1N4002A	6	
CR 2, 17, 18, CR 20, 21	⚡ DIODE, SI, N-JFET, CURRENT REG, IF=5.3 MA	852116 852116	17856	J9010-TR3	5	
CR 19	⚡ DIODE, SI, N-JFET, CURRENT REG, IF=1.0 MA	852124	17856	J9004-TR3	1	
CR 24, 25	DIODE, SI, BV=75.0V, IO=150MA, 500 MW	698720	65940	1N4448	2	
H 1, 2	SCREW, MACH, PH, P, STL, 6-32, .500	152173		COMMERCIAL	2	
H 4	⚡ HYBRID ASSEMBLY, TESTED	813444	89536	813444	1	
H 6- 10, 21	SCREW, MACH, PH, P, STL, 6-32X0.250	152140		COMMERCIAL	6	
H 17- 20	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
HR 7	⚡ HIGH VOLTAGE DC HYBRID	775254	89536	775254	1	
K 1	RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078	61529	DS4EML2DC5VCH239	1	
K 2, 3	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307	61529	DS2EML2DC5VH284	2	
K 4, 5, 8, K 9, 12	RELAY, ARMATURE, 2 FORM C, 5V	733063 733063	33297	MR602-5SR	5	
K 6, 7, 10, K 11, 14	RELAY, ARMATURE, 1 FORM A/1 FORM B, 5VDC	831545 831545	61529	DSP1E-DC5V	5	
L 4, 5	CHOKE, 6TURN	320911	89536	320911	2	
MP 1, 2	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 3	SHIELD, HIGH VOLTAGE, REAR	791921	89536	791921	1	
MP 4	MOLDED COVER, REFERENCE HYBRID	797746	89536	797746	1	
MP 5	MOLDED COVER, HYBRID, R-NET	775619	89536	775619	1	
MP 6- 9	INSERT, STANDOFF, BROACH, SNAP TOP, 1.062	832469	24347	KSSA-156-34	4	
MP 10	THERMAL INSULATOR, HIGH VOLTAGE	797829	89536	797829	1	
MP 22	HIGH VOLTAGE CLAMP BAR	760850	89536	760850	1	
P 601, 602	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
Q 3, 13	⚡ TRANSISTOR, SI, NPN, SMALL SIGNAL	346916	07263	2N2219A	2	
Q 4, 15, 22, Q 23	⚡ TRANSISTOR, SI, NPN, SMALL SIGNAL	698225 698225	04713	2N3904RLRA2	4	
Q 6, 12	⚡ TRANSISTOR, SI, PNP, SMALL SIGNAL	402586	04713	2N2905A	2	
Q 8, 18	⚡ TRANSISTOR, SI, BV=40V, 40W, TO-220	369660	04713	TIP32T	2	

Table 6-19. A15 High Voltage/High Current PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
Q 9, 19	† TRANSISTOR, SI, BV= 60V, 65W, TO-220	386128	04713	TTP102T	2	
Q 10	† TRANSISTOR, SI, P-JFET, TO-92	852111	17856	J6006-TR3	1	
Q 11	† TRANSISTOR, SI, BV=100V, 2W, TO-220	454041	04713	MJE15029	1	
Q 14	† TRANSISTOR, SI, BV=100V, 40W, TO-220	454033	04713	MJE15028	1	
Q 16, 24	† TRANSISTOR, SI, PNP, T092	698233	04713	2N3906RLRA	2	
Q 20, 21	† TRANSISTOR, SI, N-JFET, LOW IGSS, RAD T&R	707703	27014	SX53025	2	
R 1, 72	RES, CF, 1K, +-5%, 0.25W	573170	59124	CF1-4102JB	2	
R 2, 15, 39	RES, CF, 100K, +-5%, 0.25W	573584	59124	CF1-4104JB	3	
R 4, 11, 51, R 53, 61- 64, R 74	RES, CF, 100, +-5%, 0.25W	573014 573014 573014	59124	CF1-4101JB	9	
R 5	RES, CF, 1.5K, +-5%, 0.25W	810432	59124	CF1-4VT152J	1	
R 6, 9	RES, CF, 1M, +-5%, 0.25W	573691	59124	CF1-4105JB	2	
R 7	RES, CF, 51K+-5%, 0.25W	747550	59124	CF1-4VT513J	1	
R 8, 19	RES, CF, 3K, +-5%, 0.25W	573279	59124	CF1-4302JB	2	
R 10	RES, CF, 820, +-5%, 0.25W	574970	59124	CF1-4821JB	1	
R 12	RES, CF, 33K, +-5%, 0.25W	733667	59124	CF1-4VT333J	1	
R 13	RES, MF, 34.8K, +-1%, 0.125W, 100PPM	772319	59124	MF50DVT3482F	1	
R 14, 16, 21, R 27, 28, 40, R 44, 52, 54, R 71	RES, CF, 10K, +-5%, 0.25W	573394 573394 573394 573394	59124	CF1-4103JB	10	
R 17, 41	RES, CF, 4.7K, +-5%, 0.25W	573311	59124	CF1-4472JB	2	
R 18	RES, CF, 22K, +-5%, 0.25W	573451	59124	CF1-4223JB	1	
R 20	RES, CF, 1.5K, +-5%, 0.25W	573212	59124	CF1-4152JB	1	
R 22	RES, CF, 16K, +-5%, 0.25W	641118	59124	CF1-4163JB	1	
R 23, 24, 60, R 65	RES, CF, 10, +-5%, 0.25W	572941 572941	59124	CF1-4100JB	4	
R 25, 26	RES, MF, 14.3, +-1%, 0.125W, 100PPM	832097	91637	CMF5514R3F T-1	2	
R 29, 30	RES, CF, 8.2K, +-5%, 0.25W	573378	59124	CF1-4822JB	2	
R 31, 32	RES, CC, 2K, +-5%, 0.5W	169854	01121	EB2025	2	
R 33- 35	RES, CC, 470, +-10%, 0.5W	108415	01121	EB4711	3	
R 36	RES, CF, 47, +-5%, 0.25W	572982	59124	CF1-4470JB	1	
R 37, 38	RES, MF, 825, +-1%, 0.125W, 100PPM	294892	91637	CMF558250F T-1	2	
R 42, 43, 45, R 46	RES, MF, 10K, +-1%, 0.125W, 100PPM	719476 719476	91637	CMF551002F T-1	4	
R 47	RES, CF, 160, +-5%, 0.25W	641084	59124	CF1-4161JB	1	
R 48, 50	RES, MF, 2.21K, +-1%, 0.125W, 100PPM	347476	91637	CMF552211F T-1	2	
R 56, 69	RES, MF, 191, +-1%, 0.125W, 100PPM	719799	91637	CMF551910F T-1	2	
R 57, 68, 77, R 78	RES, WW, .1, +-3%, .7W	255679 255679	05347	MS2N1011ROH	4	
R 58, 67	RES, CF, 330K, +-5%, 0.25W	641159	59124	CF1-4334JB	2	
R 59, 66	RES, CF, 68, +-5%, 0.25W	643783	59124	CF1-4680JB	2	
R 73, 75	RES, CF, 2K, +-5%, 0.25W	573238	59124	CF1-4202JB	2	
R 76	RES, CF, 3.3, +-5%, 0.25W	348730	59124	CF1-43R3JB	1	
R 79, 82	RES, CF, 1K, +-5%, 0.25W	780585	59124	CF1-4VT102J	2	
R 80, 83	RES, CF, 4.7K, +-5%, 0.25W	721571	59124	CF1-4VT472J	2	
R 81, 84	RES, CF, 10K, +-5%, 0.25W	697102	59124	CF1-4VT103J	2	
TP 1, 3- 11	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	10	
TP 2	SOCKET, SINGLE, FWB, FOR 0.080 PIN	170480	74970	105-752	1	
U 1	† IC, OP AMP, JFET INPUT, 22V SUPPLY, DIP	832584	04713	LF356BN	1	

Table 6-19. A15 High Voltage/High Current PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
U 2, 4, 5	⚡ IC, OP AMP, JFET INPUT, 8 PIN DIP	472779	27014	LF356N	3	
U 3	⚡ IC, OP AMP, DUAL, LO OFFST, VOLT, LO-DRIFT	685164	27014	LF412CN	1	
VR 1, 2, 5, VR 6	⚡ ZENER, UNCOMP, 16.0V, 5%, 15.5MA, 1.0W ⚡	313221 313221	04713	1N4745ARL	4	
VR 3, 4	⚡ ZENER, UNCOMP, 20.0V, 5%, 6.2MA, 0.4W	832576	04713	1N968B	2	
VR 7, 8	⚡ ZENER, UNCOMP, 16.0V, 5%, 7.8MA, 0.4W	698712	04713	1N966B-SR4348RL	2	
W 1	HIGH VOLTAGE CABLE ASSEMBLY, 8.125"	881862	89536	881862	1	
W 2, 3	HIGH VOLTAGE CABLE ASSEMBLY, 7.375"	881859	89536	881859	1	
Z 5	⚡ R-NET/HEAT SINK ASSY-4R03	761288	89536	761288	1	
Z 6	⚡ R-NET/HEAT SINK ASSY-4R23	761296	89536	761296	1	
NOTES:	⚡ Static sensitive part.					

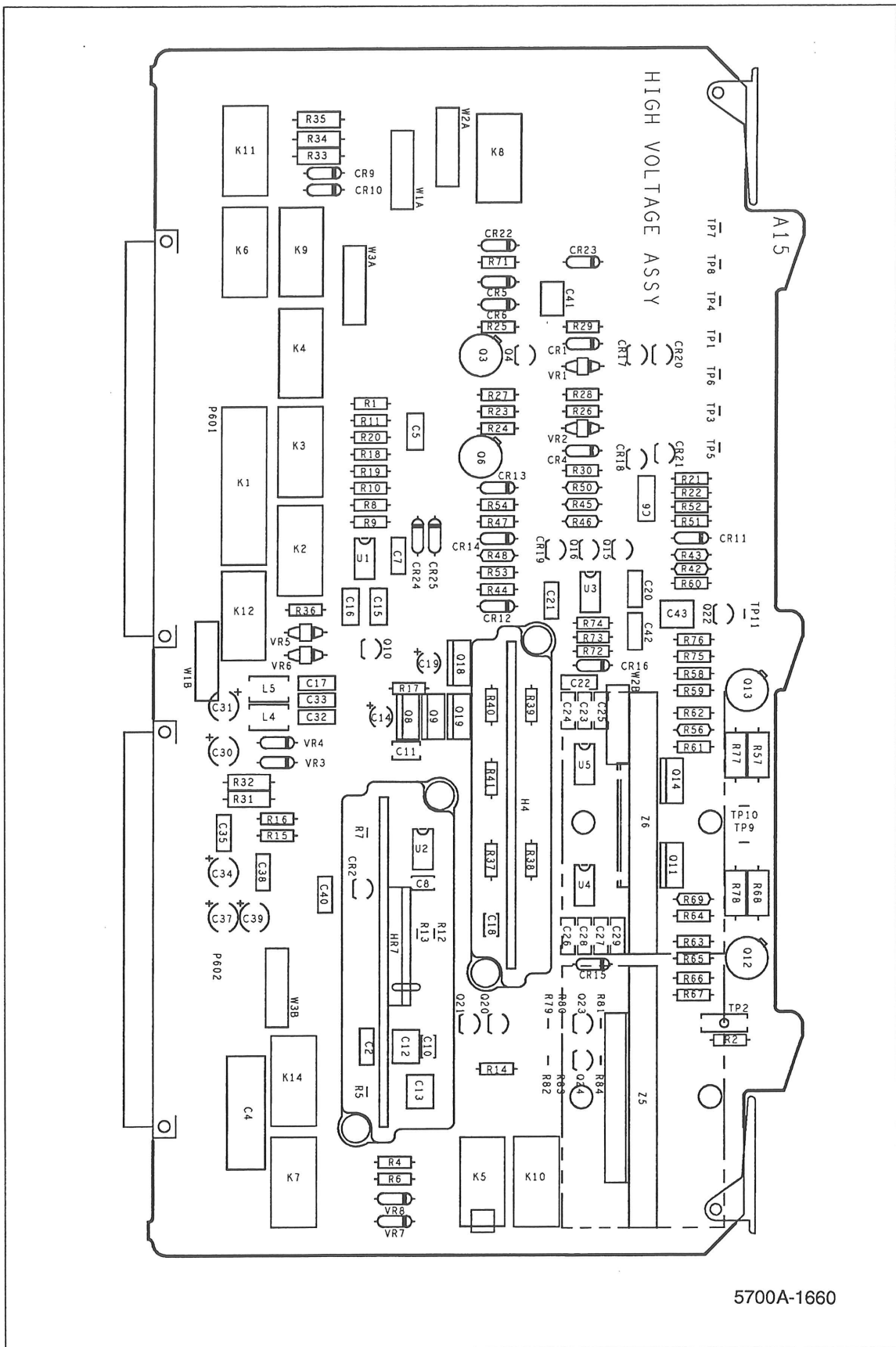


Figure 6-19. A15 High Voltage/High Current PCA

Table 6-20. A16 Power Amplifier PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
A 1	POWER AMP DIGITAL CONTROL SIP PCA	775320	89536	775320	1	
C 1, 2, 63	CAP,CER,10PF,+/-10%,3000V,C0G	817049	60705	564CTK302EE100K	3	
C 3	CAP,MICA,560PF,+/-5%,500V	170431	93790	CD19FD561J0	1	
C 4, 28	CAP,CER,0.02UF,+/-20%,500V,Z5U	407403	56289	562CZ5UAA501AJ203	2	
C 5, 75	CAP,POLYES,0.47UF,+/-10%,50V	820548	60935	185-2/473K0050RAB	2	
C 6, 17, 23	CAP,CER,22PF,+/-10%,1000V,C0G	817023	60705	561CCOGRE102EE220K	3	
C 7, 24, 43	CAP,CER,1000PF,+/-20%,50V,X7R	697458	89536	697458	3	
C 8, 13, 16, C 20, 47, 49, C 60, 61, 68- C 71	CAP,POLYES,0.22UF,+/-5%,50V	747519 747519 747519 747519	60935	185.22/J0050RCB	12	
C 9, 21	CAP,TA,15UF,+/-20%,20V	807610	56289	199D156X0020DA1	2	
C 10, 25	CAP,TA,1UF,+/-20%,35V	697417	56289	199D105X0035AA1	2	
C 11	CAP,CER,22PF,+/-2%,50V,C0G	714832	04222	SR215A220GAT	1	
C 12	CAP,CER,2000PF,+/-20%,100V,Z5U	757096	51406	DD10X-90B	1	
C 15	CAP,CER,0.01UF,+80-20%,500V,Z5U	816991	60705	562CZ5URE501AG103Z	1	
C 18	CAP,CER,6.8PF,+/-0.1PF,500V,C0J	485383	59660	831-085-C0J0-689B	1	
C 19	CAP,CER,100PF,+/-5%,50V,C0G	831495	31433	C330C101J5G5CA	1	
C 22	CAP,MICA,2PF,+/-0.5PF,500V	175208	93790	CD19CD19CD020D0	1	
C 26	CAP,CER,1000PF,+/-20%,3000V,Z5U	832709	60705	564CZ5UTK302EE102M	1	
C 27, 78, 79	CAP,AL,3.3UF,+30-20%,450V,SOLV PROOF	782524	62643	SM450VB3R3M12X24LDV	3	
C 31- 34	CAP,AL,22UF,+/-20%,35V,SOLV PROOF	817056	62643	KMA35T220M6X7FT	4	
C 40	CAP,POLYES,1UF,+/-10%,50V	733089	60935	185/1.00/K0050RGB	1	
C 41	CAP,POLYPR,0.15UF,+/-10%,400V	557504	84411	JF150	1	
C 42	CAP,CER,470PF,+/-10%,50V,C0G	733071	04222	SR215A100GAT	1	
C 45	CAP,TA,2.2UF,+/-10%,35V	697433	31433	T356E225K035AS	1	
C 48, 72	CAP,CER,1.2PF,+/-0.25PF,50V,M7J	715235	59660	8101-50-M7J-129B	2	
C 57	CAP,CER,100PF,+/-10%,1000V,S3N	816983	60705	561CR3LRE102EF101K	1	
C 65, 67	CAP,TA,4.7UF,+/-20%,25V	807644	56289	199D475X0025BA1	2	
C 73	CAP,CER,0.05UF,+80-20%,500V,Z5U	105676	60705	562CBZ501AK503ZA32	1	
C 74	CAP,POLYES,0.1UF,+/-10%,50V	649913	60935	185-2/0.1K0050RAB	1	
C 80, 81	CAP,POLYES,0.47UF,+/-10%,50V	697409	84411	J1320R47MF10PCT50V	2	
C 82	CAP,CER,10PF,+/-2%,50V,C0G	713875	72982	RPE122-901COG100G50V	1	
CR 1- 5, 7, CR 10, 12- 14, CR 16, 20, 21, CR 23- 25, 27, CR 29- 31, 61- CR 67	DIODE,SI,BV= 75.0V,RADIAL INSERTED	659516 659516 659516 659516 659516 659516	03508	1N4448	27	
CR 8, 9	DIODE,SI,100 PIV,1.0 AMP	820449	65940	1N4002A-T20 (A)	2	
CR 18, 19	DIODE,SI,BV=125.0V,IO=150MA,500 MW	844647	07263	FDH300	2	
CR 33, 68	DIODE,SI,N-JFET,CURRENT REG,IF=5.3 MA	852116	17856	J9010-TR3	2	
CR 35- 39, 69	DIODE,SI,BV=200V,IO=200MA	876867	07263	FDH400	6	
CR 53	DIODE,SI,N-JFET,CURRENT REG,IF=1.0 MA	334839	17856	J9013	1	
H 1, 2	SCREW,PH,P,LOCK,SS,6-32X0.500	320051	2M530	320051	2	
H 3, 4	SCREW,PHKP,LOCK,STL,6-32,.750	114223	89536	114223	2	
H 10, 48, 59, H 60	SCREW,MACH,PH,P,STL,6-32X0.375	334458 334458		COMMERCIAL	4	
H 13- 16	RIVET,S-TUB,OVAL,STL,.087,.343	838458		COMMERCIAL	4	
HR 8	POWER AMP DC HYBRID	775437	89536	775437	1	
K 1, 2	RELAY,ARMATURE,4 FORM C,5V,LATCH	715078	61529	DS4EML2DC5VCH239	2	
K 3, 4	RELAY,ARMATURE,2 FORM C,5V,LATCH	769307	61529	DS2EML2DC5VH284	2	
K 10, 11, 13- K 16	RELAY,ARMATURE,2 FORM C,5V	733063 733063	33297	MR602-5SR	6	
K 12, 17	RELAY,ARMATURE,2 FORM C,5V	911271	33297	MR602-5USR	2	
L 1- 3	CHOKE,6TURN	320911	89536	320911	3	

Table 6-20. A16 Power Amplifier PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
L 10	INDUCTOR, 1.5UH, +-5%, 128MHZ, SHLD	413856	89536	413856	1	
L 12	CHOKE, 2TURN	417196	89536	417196	1	
M 17	OSCILLATOR THERMAL COVER	797696	89536	797696	1	
MP 3	AIR DUCT DIVIDER, PWR AMP	791939	89536	791939	1	
MP 4	MOLDED COVER, HYBRID, R-NET	775619	89536	775619	1	
MP 5- 8	HEAT DIS, PRESS ON, TO-5	418384	13103	2225B	4	
MP 9- 12	RIVET, POP, DOME, AL, .125X.316	807347	0CLN7	AD42H	4	
MP 20- 23	SPACER, TRANSISTOR MOUNT, DAP, TO-5	152207	07047	10123-DAP	4	
MP 43, 44	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 41, 42, 45- MP 47	SCREW, MACH, PH, P, STL, 6-32X0.250	152140 152140		COMMERCIAL	5	
MP 49	HEATSINK, POWER AMP	803007	89536	803007	1	
MP 50	SHIELD, HIGH VOLTAGE, REAR	791921	89536	791921	1	
MP 51- 54	INSUL PART, TRANSISTOR, NYL, .4, .61, .14	844837	06915	IEC-T0-220-18	4	
MP 55	THERMAL INSULATOR, POWER AMP	791988	89536	791988	1	
MP 56, 57	POWER AMP CLAMP BAR	803015	89536	803015	2	
MP 58	AIR DUCT, PWR AMP	775601	89536	775601	1	
P 701, 702	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
Q 1, 3	TRANSISTOR, SI, N-MOS, 30W, 500V, TO-220	782540	04713	MTP2N50	2	
Q 2	TRANSISTOR, SI, N-JFET, UHF/VHF USE	851972	27014	J310	1	
Q 4, 7, 32, Q 60, 62	TRANSISTOR, SI, NPN, SMALL SIGNAL	698225 698225	04713	2N3904RLRA2	5	
Q 5	TRANSISTOR, SI, NPN, HI-FREQ, TO-39	912522	04713	MRF544	1	
Q 6	TRANSISTOR, SI, PNP, SMALL SIGNAL	844993	55464	MFS6522	1	
Q 8	TRANSISTOR, SI, N-DMOS FET, TO-72	394122	18324	SD210EE	1	
Q 9, 16, 54	TRANSISTOR, SI, NPN SMALL SIGNAL	853478	04713	MPSH10RLRA	3	
Q 10	TRANSISTOR, SI, PNP, 70V, 400MA, TO-39	866769	04713	MRF545	1	
Q 11	TRANSISTOR, SI, PNP, SWITCHING, TO-92	831446	04713	MFS364ORLRA	1	
Q 12, 14	TRANSISTOR, SI, N-DMOS, 400V, TO-39	783753	59640	VN0550N2	2	
Q 13	TRANSISTOR, SI, P-MOS, 500V, TO-92	782508	59640	VP0550N3	1	
Q 15, 17	TRANSISTOR, SI, P-MOS, POWER, 500VT0220AB	782482	04713	MTP2P50	2	
Q 31	TRANSISTOR, SI, VMOS, PWR, TO-237, VN10KM	640516	17856	V11809	1	
Q 33, 34	TRANSISTOR, SI, N-JFET, LOW IGSS, RAD T&R	707703	27014	SX53025	2	
Q 35	TRANSISTOR, SI, BV= 60V, 65W, TO-220	386128	04713	TIP12T	1	
Q 38	TRANSISTOR, SI, BV=40V, 40W, TO-220	369660	04713	TIP32T	1	
Q 39, 40, 50, Q 51, 57, 58	TRANSISTOR, SI, N-DMOS PWR FET, TO-92	782565 782565	59640	VN0104N3	6	
Q 61	TRANSISTOR, SI, PNP, T092	698233	04713	2N3906RLRA	1	
R 1	RES, CF, 9.1K, +-5%, 0.25W	706663	59124	CF1-4VT912J	1	
R 2, 18, 54, R 56, 89, 90, R 134, 135	RES, CF, 10K, +-5%, 0.25W	697102 697102 697102	59124	CF1-4 VT 103J	8	
R 3, 4, 81- R 83	RES, MF, 100K, +-0.1%, 0.5W, 50PPM	369371 369371	19701	5053RC1003B	5	
R 5	RES, MF, 30.1K, +-1%, 0.125W, 100PPM	772061	59124	MF50DVT3012F	1	
R 6	RES, CF, 51K+-5%, 0.25W	747550	59124	CF1-4VT513J	1	
R 7	RES, MF, 1.5M, +-1%, 0.125W, 100PPM	714998	59124	MF50DVT1504F	1	
R 8, 86	RES, MF, 10K, +-0.1%, 0.125W, 50PPM	733972	59124	MF50CVT1002B	2	
R 9, 10, 16, R 33, 40, 50, R 59, 115, 148, R 149	RES, MF, 1K, +-1%, 0.125W, 100PPM	816595 816595 816595 816595	59124	MF50DVT1001F	10	
R 11, 12	RES, MF, 16.5K, +-1%, 0.5W, 100PPM	162529	91637	CMF1652F T-1	2	
R 13	RES, MF, 17.4K, +-1%, 0.5W, 100PPM	247270	91637	CMF651742F T-1	1	
R 14, 73, 137	RES, CF, 43K, +-5%, 0.25W	821777	59124	CF1-4VT433J	3	

Table 6-20. A16 Power Amplifier PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
R 15, 19, 52, R 57	RES, CC, 68K, +-10%, 1W	109629 109629	01121	GB6831	4	
R 17, 53	RES, MF, 4.99K, +-1%, 0.125W, 100PPM	721548	59124	MF55D4991F	2	
R 20, 23	RES, CF, 3.9K, +-5%, 0.25W	810416	59124	CF1-4VT392J	2	
R 22, 109, 133	RES, CF, 430, +-5%, 0.25W	817577	59124	CF1-4VT431J	3	
R 24, 138	RES, CF, 200, +-5%, 0.25W	810390	59124	CF1-4VT201J	2	
R 25, 32	RES, CF, 750, +-5%, 0.25W	810374	59124	CF1-4VT751J	2	
R 26, 126, 128	RES, CF, 620, +-5%, 0.25W	810408	59124	CF1-4VT621J	3	
R 116, 129	RES, CF, 4.7K, +-5%, 0.25W	721571	59124	CF1-4VT472J	2	
R 27	RES, CC, 1K, +-5%, 0.5W	108597	01121	EB1025	1	
R 28, 29, 34, R 47	RES, CF, 1M, +-5%, 0.25W	714980 714980	59124	MF50D4993F	4	
R 30	RES, CF, 330, +-5%, 0.25W	830596	59124	CF1-4VT331J	1	
R 31	RES, CF, 100K, +-5%, 0.25W	658963	59124	CF1-4VT104J	1	
R 35, 74, 139	RES, CF, 20, +-5%, 0.25W	810382	59124	CF1-4VT200J	3	
R 36, 141, 151, R 152	RES, CF, 47, +-5%, 0.25W	822189 822189	59124	CF1-4VT470J	4	
R 37	RES, CF, 12K, +-5%, 0.25W	757799	59124	CF1-4VT123J	1	
R 38, 118	RES, CF, 47K, +-5%, 0.25W	721787	59124	CF1-4VT473J	2	
R 41, 51, 55	RES, CC, 200K, +-5%, 1W	109926	01121	GB2041	3	
R 46, 108, 110-R 113	RES, CF, 100, +-5%, 0.25W	810465 810465	59124	CF1-4VT101J	6	
R 58	RES, CF, 33, +-5%, 0.25W	414524	59124	CF1-4330JB	1	
R 61	RES, CF, 750K, +-5%, 0.25W	747543	59124	CF1-4VT754J	1	
R 84	RES, MF, 22.1K, +-1%, 0.125W, 100PPM	655266	59124	MF50DVT2212F	1	
R 85	RES, CC, 27M, +-5%, 0.25W	221994	01121	CB2765	1	
R 87	RES, MF, 84.5, +-1%, 0.125W, 100PPM	236851	91637	CMF5584R5F T-1	1	
R 88, 97, 98	RES, MF, 10, +-1%, 0.125W, 100PPM	820399	59124	MF50DVT10R0F	3	
R 92	RES JUMPER, 0.02MAX	682575	89536	682575	1	
R 117	RES, CF, 24K, +-5%, 0.25W	697599	59124	CF1-4VT243J	1	
R 120	RES, CC, 47, +-5%, 0.5W	159608	01121	EB4705	1	
R 125	RES, CF, 2K, +-5%, 0.25W	810457	59124	CF1-4VT202J	1	
R 132	RES, MF, 20K, +-0.1%, 0.25W, 25PPM	810564	91637	CMF552002B T-9	1	
R 142	RES, CF, 200K, +-5%, 0.25W	681841	59124	CF1-4VT204J	1	
R 143	RES, CF, 300K, +-5%, 0.25W	732818	59124	CF1-4VT304J	1	
R 144	RES, CF, 1K, +-5%, 0.25W	780585	59124	CF1-4VT102J	1	
R 146, 147	RES, CF, 2.4, +-5%, 0.25W	348508	80031	5043C2002R40J	2	
R 150	RES, CF, 15, +-5%, 0.25W	348755	59124	CF1-4150JB	1	
TP 1- 5, 7- TP 13, 16, 17	JUMPER, WIRE, NONINSUL, 0.200CTR	816090 816090	91984	1SOT1	14	
TP 6	SOCKET, SINGLE, PWB, FOR 0.080 PIN	170480	74970	105-752	1	
TP 14	SOCKET, SINGLE, PWB, FOR 0.080 PIN	149138	74970	105-0757	1	
TP 15	SOCKET, SINGLE, PWB, FOR 0.080 PIN	149120	74970	105-0754	1	
U 1	IC, OP AMP, PRGRBL OUT CURRNT, 8 PIN DIP	418913	27014	LM4250CN	1	
U 2, 5	IC, CMOS, QUAD BILATERAL SWITCH	910708	17856	DG444DJ	2	
U 4	IC, OP AMP, HI SPEED, LOW NOISE, 8 DIP	875815	13919	OPA627AF	1	
U 7	IC, OP AMP, JFET INPUT, 22V SUPPLY, DIP	832584	04713	LF356BN	1	
U 8	IC, CMOS, HEX INVERTER	381848	02735	CD4049AE	1	
U 9	IC, OP AMP, CHOPPER STABILIZED, 8 PIN PKG	831263	64155	LT1052CN8	1	
U 10	IC, BPLR, FAHRENHEIT TEMPERTURE SENSOR	845156	27014	LM34CZ	1	
VR 6, 11, 19, VR 22, 26, 28, VR 32	ZENER, UNCOMP, 10.0V, 5%, 12.5MA, 0.4W	810267 810267 810267	14552	DZ810317D	7	
VR 8, 9, 61, VR 62	ZENER, UNCOMP, 3.3V, 5%, 20.0MA, 0.4W	820423 820423	04713	1N746ARR1	4	
VR 15	ZENER, UNCOMP, 18.0V, 5%, 7.0MA, 0.4W	810325	04713	1N967BRR1	1	

Table 6-20. A16 Power Amplifier PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
VR 18	⚡ ZENER, UNCOMP, 15.0V, 5%, 8.5MA, 0.4W	820415	04713	1N965BRR1	1	
VR 51, 52, 57, VR 58	⚡ ZENER, UNCOMP, 6.8V, 5%, 20.0MA, 0.4W ⚡	820431 820431	04713	1N754ARR1	4	
VR 64	⚡ ZENER, UNCOMP, 24.0V, 5%, 20MA, 0.4W	810317	04713	1N970BRR1	1	
VR 65	⚡ ZENER, UNCOMP, 8.2V, 5%, 20MA, 0.4W	810309	65940	1N756AT-88	1	
Z 1	⚡ RES, NET, THN F. 396K, (2)+-500/5PPM	764399	89536	764399	1	
NOTES:	⚡ Static sensitive part.					

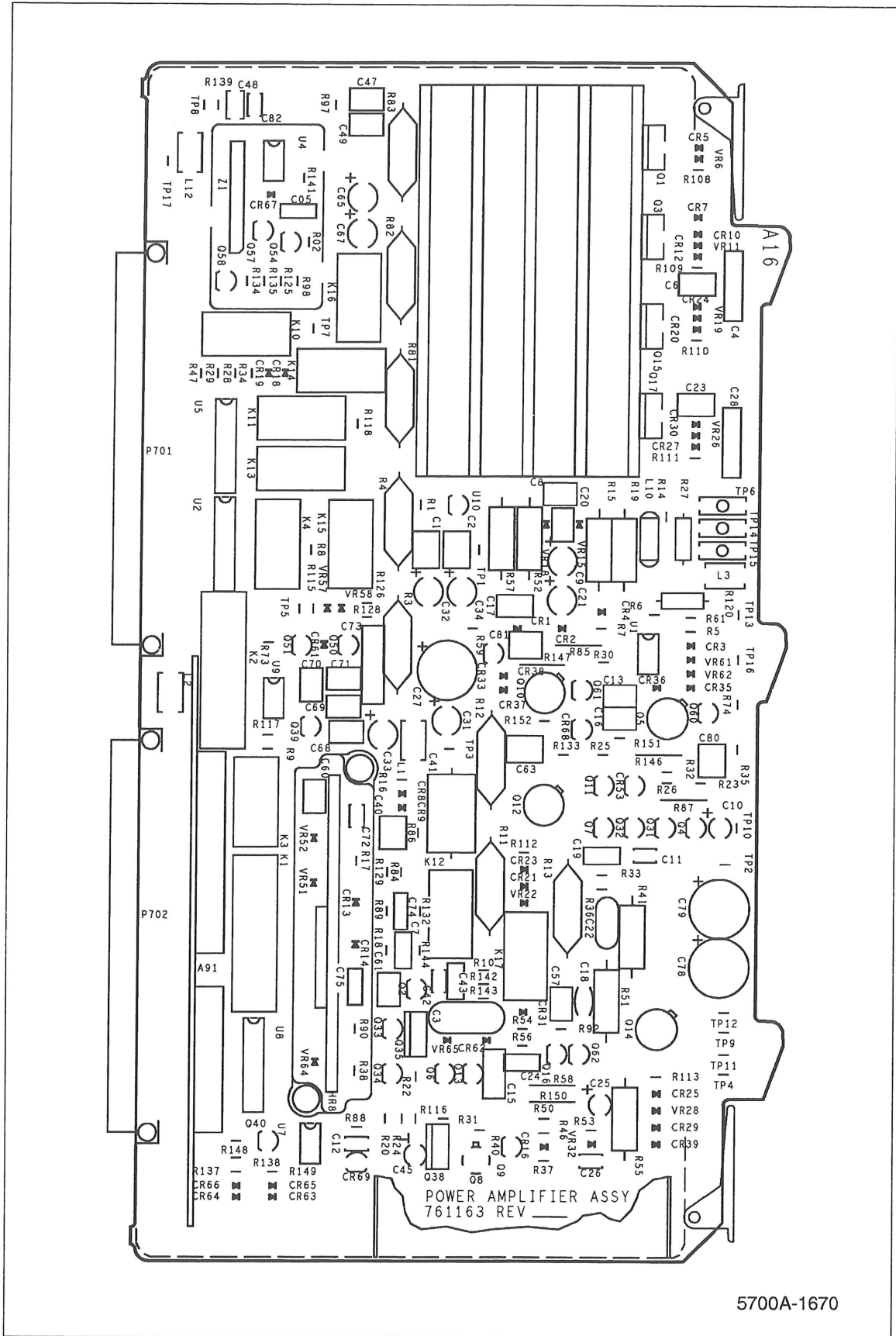


Figure 6-20. A16 Power Amplifier PCA

Table 6-21. A16A1 Power Amplifier Digital Control SIP PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 52	CAP, AL, 15UF, +-20%, 35V	614024	74840	156RLR035M	1	
C 53, 56	CAP, CER, 33PF, +-5%, 50V, COG	714543	04222	SR215A330JAT	2	
C 54	CAP, CER, 470PF, +-10%, 50V, COG	733071	04222	SR215A471KAT	1	
C 55, 57	CAP, POLYES, 0.22UF, +-5%, 50V	747519	60935	185.22J0050RCB	2	
L 4	CHOKE, 6TURN	320911	89536	320911	1	
MP 3	HEADER, 2 ROW, .100CTR, RT ANG, 10 PIN	658112	00779	1-87230-5	1	
P 1, 2	HEADER, 2 ROW, .100CTR, RT ANG, 26 PIN	512590	00779	1-87230-3	2	
R 101, 105	RES, MF, 1K, +-1%, 0.125W, 100PPM	816595	59124	MF50DVT1001F	2	
R 102	RES, CF, 16K, +-5%, 0.25W	714303	59124	CF1-4VT163J	1	
R 103	RES, CF, 10K, +-5%, 0.25W	697102	59124	CF1-4VT103J	1	
R 104	RES, CF, 4.7K, +-5%, 0.25W	721571	59124	CF1-4VT472J	1	
R 106	RES, CF, 1K, +-5%, 0.25W	780585	59124	CF1/4102J	1	
U 9	⚡ IC, LSTTL, 3-8 LINE DCDR W/ENABLE	407585	01295	SN74LS138N	1	
U 10, 12	⚡ IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	2	
U 11	⚡ IC, CMOS, PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1	
U 13, 15	⚡ IC, COMPARATOR, QUAD, 14 PIN DIP	387233	27014	LM339N	2	
U 14	⚡ IC, CMOS, 8-1 LINE MUX/DEMUX ANALOG SW	836304	04713	MM74HC4051N	1	
Z 1	RES, CERM, SIP, 10 PIN, 9 RES, 47K, +-2%	485193	91637	CSC10A-01-473G	1	
Z 2	RES, CERM, SIP, 10 PIN, 9 RES, 4.7K, +-2%	484063	91637	CSC10B-01-472G	1	
NOTES:	⚡ Static sensitive part.					

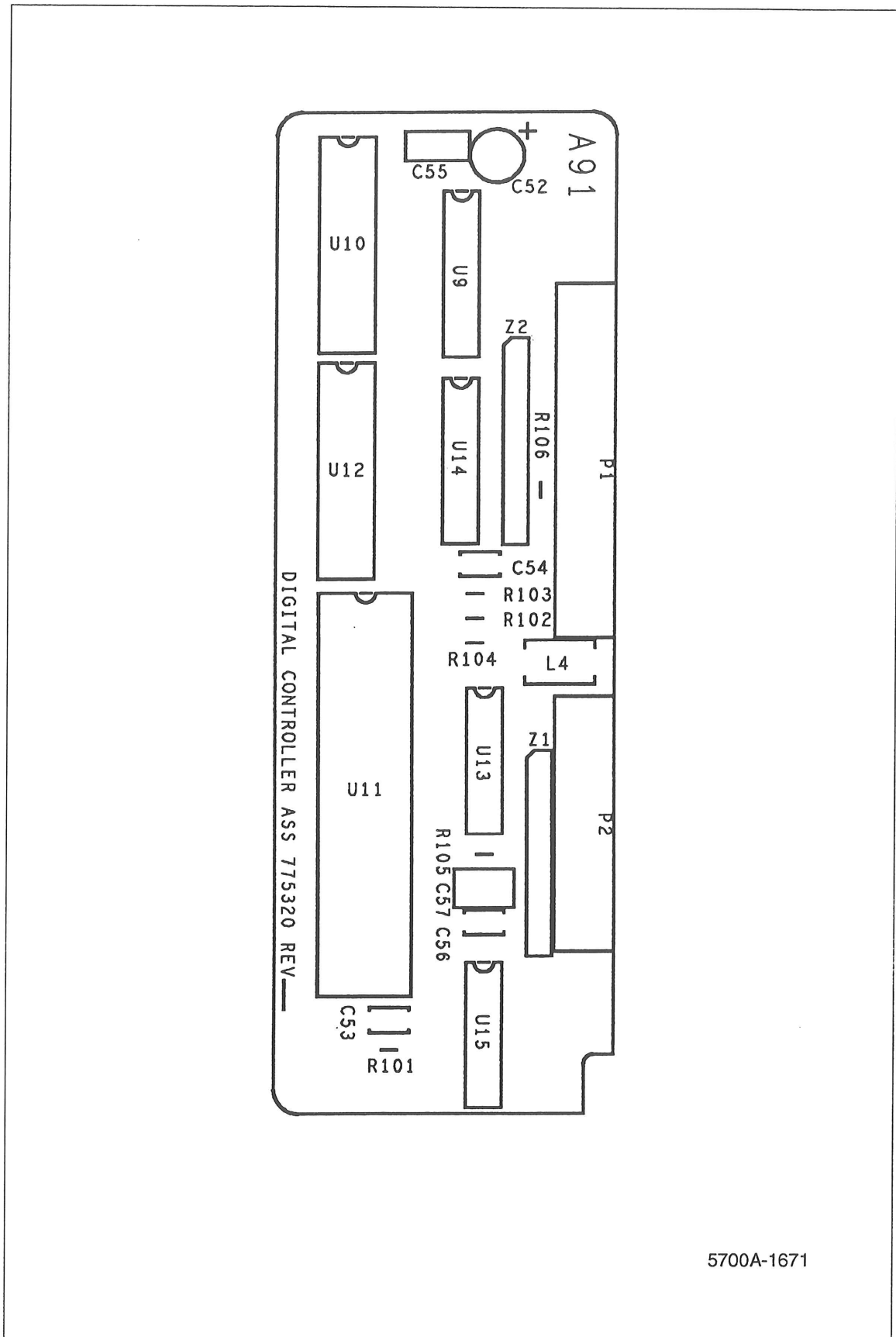


Figure 6-21. A16A1 Power Amplifier Digital Control SIP PCA

Table 6-22. A17 Regulator/Guard Crossing PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1, 2, 4, C 6, 7, 9, C 11, 12, 14- C 16, 19- 23, C 27, 28	CAP, AL, 10UF, +-20%, 50V, SOLV PROOF	799437 799437 799437 799437	62643	KMC50VB10RM5X11RP	18	
C 3, 10, 18, C 25	CAP, CER, 0.05UF, +-20%, 100V, Z5V	149161 149161	60705	565CBA101AR503MA05	4	
C 5, 24, 29, C 102	CAP, AL, 22UF, +-20%, 35V, SOLV PROOF	851766 851766	62643	KRF35VB22RM6X5RP	4	
C 8, 13	CAP, TA, 22UF, +-20%, 25V	845149	31433	T356G226M025AS	2	
C 17, 26, 65, C 66	CAP, AL, 10UF, +-20%, 63V, SOLV PROOF	816843 816843	62643	KM63VB10RM5X11RP	4	
C 52, 53	CAP, CER, 15PF, +-20%, 50V, COG	697524	04222	SR215A150MAT	2	
C 54, 56, 59, C 60, 101, 104- C 107, 109, 110, C 112-114	CAP, POLYES, 0.1UF, +-10%, 50V	649913 649913 649913 649913	60935	185-2/0.1/K0050RAB	14	
C 55, 58	CAP, TA, 10UF, +-20%, 10V	714766	56289	199D106X0010BA1	2	
C 57	CAP, TA, 47UF, +-20%, 10V	733246	56289	199D476X0010DA1	1	
C 61, 62	CAP, CER, 22PF, +-5%, 50V, COG	714550	04222	SR215A220JAT	2	
C 63, 64	CAP, CER, 100PF, +-2%, 50V, T2J	362665	51406	RD8721N47010G50V	2	
C 67- 70	CAP, TA, 22UF, +-20%, 25V	357780	31433	T361B226M025AS	4	
CR 1- 34	DIODE, SI, 100 PIV, 1.0 AMP	742874	65940	1N4002A	34	
CR 35	DIODE, SI, SCHOTTKY BARRIER, SMALL SIGNL	313247	28480	5082-6264 T25	1	
CR 36	THYRISTOR, SI, SCR, VBO=200V, 8.0A	634147	04713	MCR72-4	1	
F 1	FUSE, 8X8.5MM, 3.15A, 250V, SLOW, RADIAL	832253	60046	19372-3.150	1	
H 19- 22	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
H 45- 48	SCREW, MACH, PH, F, STL, 6-32, .500	320051		COMMERCIAL	4	
H 49- 52	HEAT DIS ACC, NYL, TO-3	853952	13103	8181E1	4	
H 53- 60	NUT, CAP EXT LW, STL, 6-32X.109	152819	78189	511-061800-00	8	
J 801, 802	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
L 51	CHOKO, 3 TURN	452888	89536	452888	1	
L 53, 54	CHOKO, 2TURN	417196	89536	417196	2	
MP 1, 5, 13	HEAT DIS, PRESS ON, TO-5	418384	13103	2225B	3	
MP 2- 4, 9, MP 37	HEAT DIS, PWB MT, .75X.50X.50, TO-220	816587 816587	30161	5968B	5	
MP 6- 8, 11	HEAT DIS, HORIZ, 1.88X1.40X1.25, TO-3	643593	13103	6016B-1.25	4	
MP 10	HEAT DIS, SNAP ON, .75, TO-5	853283	30161	5784B	1	
MP 12	HEAT DIS, CLIP, 1.00, 1.18, .50, TO-220	643353	13103	6038B-TT	1	
MP 14	HEAT DIS, VERT, 1.00X.31X.81, TO-220	853395	98978	PSC2T-2CB	1	
MP 23	SHIELD, GUARD CROSSING	761353	89536	761353	1	
MP 24- 27	RIVET, POP, DOME, AL, .125X.316	807347	0CLN7	AD42H	4	
MP 35, 36	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 38	RIVETED, VOLTAGE REGULATOR AIR DUCT	883835	89536	883835	1	
MP 39- 42	INSUL PART, TRANS, SILICONE, TO-3	473165	55285	7403-09FR-05	4	
MP 59- 62,	SPACER, TRANSISTOR MOUNT, DAP, TO-5	152207	07047	10123-DAP	4	
MP 71, 72	PAD, ADHESIVE	735365	89536	735365	2	
Q 1	TRANSISTOR, SI, BV=60V, 65W, TO-220	559989	04713	TIP125	1	
Q 2	TRANSISTOR, SI, BV= 60V, 65W, TO-220	386128	01295	TIP120T	1	
R 1, 4	RES, MF, 113, +-0.1%, 0.125W, 100PPM	484238	91637	CMF551130B T-1	2	
R 2, 8	RES, MF, 2.67K, +-1%, 0.5W, 100PPM	161430	91637	CMF652671F T-1	2	
R 5, 11	RES, MF, 203, +-0.1%, .125W, 100PPM	851191	91637	CMF552030B T-1	2	
R 6	RES, MF, 2.61K, +-0.1%, 0.125W, 100PPM	851571	91637	CMF552611B T-1	1	
R 10	RES, MF, 2.67K, +-0.1%, 0.125W, 25PPM	340596	80031	5033RE2671F	1	
R 13	RES, CF, 10, +-5%, 0.25W	340075	59124	CF1-4100JB	1	
R 14, 18	RES, MF, 150, +-0.1%, 0.125W, 100PPM	832360	91637	CMF551500B T-1	2	
R 15, 17	RES, MF, 5.11K, 0.1%, 0.5W, 100PPM	832378	91637	CMF655111B T-1	2	

Table 6-22. A17 Regulator/Guard Crossing PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
R 19	RES, CC, 3K, +-5%, 0.5W	109090	01121	EB3021	1	
R 20, 58	RES, CF, 3K, +-5%, 0.25W	441527	59124	CF1-4302JB	2	
R 52	RES, MF, 1K, +-1%, 0.125W, 100PPM	168229	91637	CMF551001F T-1	1	
R 53	RES, CF, 10M, +-5%, 0.25W	875257	59124	CF1-4106JB	1	
R 54	RES, CF, 1.8K, +-5%, 0.25W	441444	65940	R25J182	1	
R 56	RES, CF, 150, +-5%, 0.25W	343442	59124	CF1-4151JB	1	
R 57	RES, CF, 100, +-5%, 0.25W	348771	59124	CF1-4101JB	1	
R 60, 61	THERMISTOR, DISC, POS, 100, +-20%, 25C	851303	91833	RL3510100110120PTS	2	
SW 51	SWITCH, PUSHBUTTON, SPST, MOMENTARY	782656	7Z884	SKHHAM	1	
T 51	RF TRANSFORMER 8 MHZ	813477	89536	813477	1	
TP 1, 4, 6, TP 8- 10, 12, TP 55, 58	JUMPER, WIRE, NONINSUL, 0.200CTR	816090 816090 816090	91984	1SOT1	9	
U 1, 5, 10	⚡ IC, VOLT REG, HIGH VOLTAGE	723445	27014	LM317HVK	3	
U 2, 4	⚡ IC, VOLT REG, FIXED, +15 VOLTS, 1.5 AMPS	413187	04713	MC7815CT	2	
U 3, 9	⚡ IC, VOLT REG, FIXED, -15 VOLTS, 1.5 AMPS	413179	04713	MC7915CT	2	
U 6	⚡ IC, VOLT REG, ADJ, POS, LOW DROPOUT	851717	64155	LT1085CK	1	
U 7	⚡ IC, VOLT REG, ADJ, NEG, LOW DROPOUT	851720	64155	LT1033CK	1	
U 8, 11	⚡ IC, VOLT REG, FIXED, +5 VOLTS, 1.0 A, TO-3	327981	34333	SG309K	2	
U 12	⚡ IC, VOLT REG, FIXED, -5 VOLTS, 1.5 AMPS	394551	04713	MC7905CT	1	
U 13	⚡ IC, VOLT REG, ADJ, -1.2 TO 47V, TO-39	845276	27014	LM337HVH	1	
U 51	⚡ IC, CMOS, HEX INVERTER, UNBUFFERED	741199	04713	MC74HC04N	1	
U 52	⚡ IC, CMOS, OCTL LINE DRVR W/3-ST OUT	741892	01295	SN74HCT244N	1	
U 53, 54	⚡ IC, CMOS, 3-8 LINE DECODER/DEMUX	799478	04713	MC74HC137N	2	
U 55	⚡ IC, CMOS, OCTAL BUS TRANSCEIVER	722017	18324	74HCT245N	1	
U 56	⚡ IC, CMOS, 8-BIT MPU, 2.0MHZ, 256 BYT RAM	876326	62786	HD63B03YP	1	
U 57	⚡ IC, TTL, DUAL AND DRVR W/OPEN COLLECTOR	393959	01295	SN75451BP	1	
U 58	⚡ IC, CMOS, PROG LOGIC, 35NS, 5700A-90780/A	875658	27014	875658	1	
U 59, 63	⚡ IC, CMOS, 14 STAGE BINARY COUNTER	807701	04713	MC74HC4020N	2	
U 60	⚡ IC, VOLT SUPERVISOR, 4.55V SENSE INPUT	780577	01295	TI7705ACP	1	
U 62	⚡ IC, CMOS, 8K X 8 STAT RAM, 120 NSEC	783332	12581	HM6264LP-12	1	
U 64	⚡ 32K X 8 PROM, PROGRAMMED 27C256	881698	89536	881698	1	
VR 1, 3	⚡ ZENER, UNCOMP, 43V, 5%, 30MA, 0.5W	851584	04713	1N5260B	2	
VR 2, 4	⚡ ZENER, UNCOMP, 10.0V, 5%, 12.5MA, 0.4W	246611	04713	1N748	2	
VR 5, 6	⚡ ZENER, UNCOMP, 5.6V, 5%, 220.0MA, 5.0W	454553	04713	1N5339B	2	
X 2	SOCKET, IC, 24 PIN	812198	14329	802-0241-812	1	
Y 51	CRYSTAL, 4.9152 MHZ, ± 0.005%, HC-18/U	800357	5W664	NDK 049	1	
Y 52	CRYSTAL, 8.00MHZ QUARTZ HC-18U	707133	89536	707133	1	
Z 1, 3	RES, CERM, SIP, 8 PIN, 4 RES, 10K, +-2%	513309	91637	CSC08A-03-103G	2	
Z 2	RES, CERM, SIP, 10 PIN, 5 RES, 10K, +-2%	529990	91637	CSC10A-03-101G	1	
Z 51	RES, CERM, DIP, 16 PIN, 15 RES, 10K, +-5%	355305	91637	MDP16-03-103J	1	
Z 52	RES, CERM, SIP, 8 PIN, 4 RES, 4.7K, +-2%	573881	91637	CSC08A-03 102G	1	
Z 53, 54	RES, CERM, SIP, 10 PIN, 5 RES, 33, +-2%	622761	91637	CSC10A-03-330G	2	
NOTES:	⚡ Static sensitive part.					

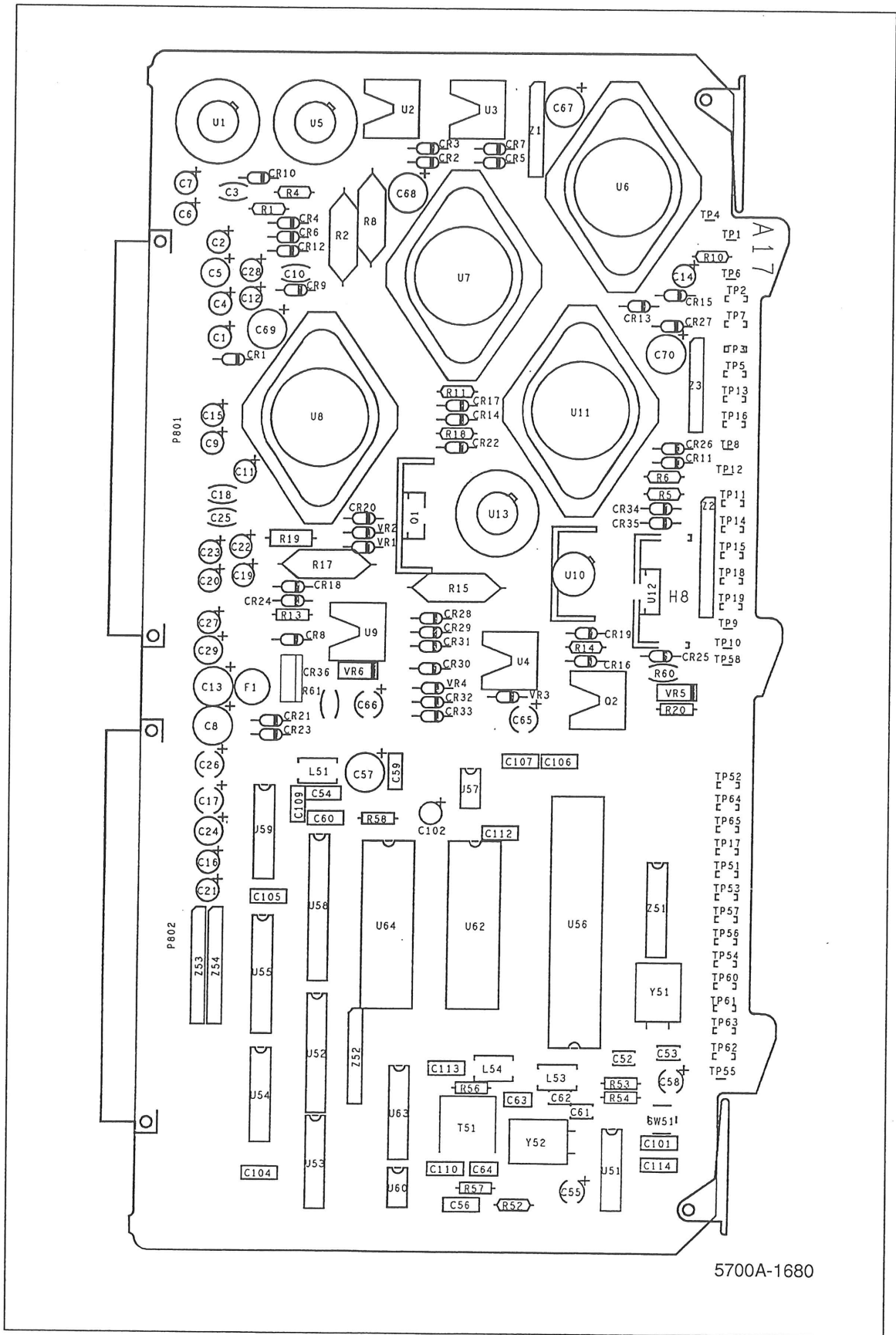


Figure 6-22. A17 Regulator/Guard Crossing PCA

Table 6-23. A18 Filter/PA Supply PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1, 10, 17	CAP, POLYES, 0.22UF, +-5%, 50V	747519	60935	185.22J0050RCB	3	
C 2, 3	CAP, AL, 6800UF, +30-20%, 25V, SOLV PROOF	782466	62643	KME25VN682M30X25LLV	2	
C 4, 6	CAP, AL, 1000UF, +-20%, 50V, SOLV PROOF	782391	00199	CEBSM1H102M	2	
C 5, 19	CAP, AL, 2200UF, +-20%, 25V, SOLV PROOF	782383	62643	KME25VB222M16X25LL	2	
C 7- 9, 18	CAP, AL, 330UF, +-20%, 100V, SOLV PROOF	816785	62643	KME100VB331M16X25LL	4	
C 11	CAP, AL, 220UF, +-20%, 25V, SOLV PROOF	816793	62643	KME25VB221M8X11.5RP	1	
C 12, 22	CAP, AL, 22UF, +-20%, 35V, SOLV PROOF	817056	62643	KMA35VB220M6X7PT	2	
C 13- 16	CAP, AL, 3300UF, +30-20%, 50V, SOLV PROOF	782458	62643	KME50VN332M30X30LLV	4	
C 20	CAP, AL, 10UF, +-20%, 63V, SOLV PROOF	816843	62643	KME63VB10RM5X11RP	1	
C 21	CAP, AL, 470UF, +-20%, 50V, SOLV PROOF	747493	62643	KMC50VB471M16X25LLV	1	
C 23, 209, 210	CAP, POLYES, 1UF, +-10%, 50V	733089	60935	185/1.00K0050RGB	3	
C 201, 203, 204, C 206	CAP, AL, 47UF, +-20%, 400V, SOLV PROOF	782532 782532	62643	NM400VN47RM22X30SDV	4	
C 202, 205	CAP, AL, 3.3UF, +30-20%, 450V, SOLV PROOF	782524	62643	SM450VB3R3M12X24LDV	2	
C 207, 208	CAP, AL, 100UF, +-20%, 16V, SOLV PROOF	816850	62643	KME16VB101M6.3X11RP	2	
C 211, 212	CAP, CER, 100PF, +-5%, 50V, COG	831495	31433	C330C101J5G5CA	2	
CR 1, 2, 4, CR 5	DIODE, SI, 150 FIV, 5.0 AMP	523720 403055	12969	UES1303	4	
CR 3, 14	DIODE, SI, RECT, BRIDGE, BV=100V, IO=1.0A	392910	21845	F903B-21G	2	
CR 6, 7	DIODE, SI, RECT, BRIDGE, BV=200V, IO=1.0A	296509	30800	KBP 02M	2	
CR 8, 10, 12, CR 13	DIODE, SI, 150 FIV, 5.0 AMP	523720 816363	12969	UES1303	4	
CR 9, 16, 18	DIODE, SI, 100 FIV, 1.0 AMP	742874	65940	1N4002A	3	
CR 11, 15, 17	DIODE, SI, RECT, BRIDGE, BV= 50V, IO=3.0A	586115	30800	KBL005	3	
CR 19	⚡ THYRISTOR, SI, TRIAC, VBO=200V, 8.0A	413013	02735	T2800B	1	
CR 201, 203, 208, CR 210, 234, 235, CR 239, 243	DIODE, SI, 400 FIV, 1 AMP	831586 831586 831586	65940	1N4004A	8	
CR 205, 217, 218, CR 220, 221, 223, CR 224, 227, 228, CR 240, 247, 248	DIODE, SI, 1K FIV, 1.0 AMP	707075 707075 707075 707075	04713	1N4007-SR4348RL	12	
CR 209, 236	⚡ DIODE, SI, N-JFET, CURRENT REG, IF=1.0 MA	334839	17856	J9013	2	
CR 222	DIODE, SI, RECT, BRIDGE, BV=800V, IO=1.0A	341016	30800	KBP 08M	1	
CR 244, 251-253	⚡ DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516	03508	1N4448	4	
F 1, 2, 8	FUSE, 8X8.5MM, 1.6A, 250V, SLOW, RADIAL	816488	60046	19372-1.600	3	
F 3- 5, 7, F 9	FUSE, 8X8.5MM, 0.5A, 250V, SLOW, RADIAL	831990 831990	60046	19372-0.500	5	
F 6, 201-204	FUSE, 8X8.5MM, 0.2A, 250V, SLOW, RADIAL	851949	60046	19372-0.200	5	
H 6- 9	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
J 201, 202	JUMPER, REC, 2 POS, .100CTR, .025 SQ POST	757294	00779	850108-1	2	
K 201	RELAY, ARMATURE, 2 FORM C, 5V	733063	61529	DS2E-S-DC5V	1	
MP 2	FOOT, ADHESIVE, RUBBER, BLACK, .50X.12	543488	28213	SJ5008	1	
MP 3	HEAT DIS, PRESS ON, TO-5	418384	13103	2225B	1	
MP 4, 5	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 10	SPACER, TRANSISTOR MOUNT, DAP, TO-5	152207	07047	10123-DAP	1	
MP 201, 202	HEADER, 1 ROW, .100CTR, 2 PIN	643916	22526	65500-102	2	
MP 203-206	HEAT DIS, VERT, 1.00X1.50X.375, TO-220	816546	13103	7019B-MT	4	
MP 207-210	INSUL PART, TRANS, SILICONE, POWER	534453	55285	7403-09FR-54	4	
MP 211-214	WASHER, SHOULDER, TEFLON, #4	844824	86928	5608-72	4	
MP 215-218	SCREW, MACH, PH, P, STL, 4-40X0.250	129890		COMMERCIAL	4	
MP 219-222	NUT, MACH, HEX, STL, 4-40	110635		COMMERCIAL	5	
P 901, 902	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
Q 201, 202	⚡ TRANSISTOR, SI, N-MOS, 30W, 500V, TO-220	782540	04713	MTP2N50	2	
Q 203, 206	⚡ TRANSISTOR, SI, PNP, SM SIG, SELECTED HFE	650846	04713	SPS8822RLRA2	2	

Table 6-23. A18 Filter/PA Supply PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
Q 204, 209, 210, Q 212	TRANSISTOR, SI, P-MOS, 500V, TO-92	782508 782508	59640	VP0550N3	4	
Q 205, 207, 208, Q 213	TRANSISTOR, SI, N-DMOS, 500V, TO-92	782490 782490	17856	V11949TR	4	
Q 211, 214	TRANSISTOR, SI, NPN, 350V, 0.625W, TO-92	853994	04713	2N6517	2	
Q 215, 216	TRANSISTOR, SI, P-MOS, POWER, 500VT0220AB	782482	04713	MTP2P50	2	
Q 217	TRANSISTOR, SI, 100V, 1W, CASE 152-02	806497	04713	MPSU07	1	
Q 218	TRANSISTOR, SI, NPN, SMALL SIGNAL	698225	04713	2N3904RLRA2	1	
Q 219	TRANSISTOR, SI, PNP, T092	698233	04713	2N3906RLRA	1	
R 1	RES, CC, 560, +-5%, 1W	266361	01121	GB5615	1	
R 2- 5	RES, CC, 20K, +-5%, 0.5W	109041	01121	EB2031	4	
R 201, 244	RES, CF, 8.2, +-5%, 0.25W	442269	59124	CF1-48R2JB	2	
R 202, 243	RES, CF, 5.1, +-5%, 0.25W	640995	59124	CF1-45R1J	2	
R 203, 241, 256, R 257	RES, CF, 9.1K, +-5%, 0.25W	706663 706663	59124	CF1-4VT912J	4	
R 204, 253	RES, CF, 1.5, +-5%, 0.25W	732800	59124	CF1-4VT1R5J	2	
R 205, 216, 229, R 240	RES, CC, 560K, +-10%, 0.5W	108795 108795	01121	EB5641	4	
R 206, 239	RES, CF, 1M, +-5%, 0.25W	649970	59124	CF1-4VT105J	2	
R 207, 209, 237, R 238	RES, CF, 470K, +-10%, 0.5W	108290 108290	01121	EB4741	4	
R 208, 210, 235, R 236	RES, CC, 220K, +-10%, 1W	109652 109652	01121	GB2241	4	
R 211	RES, CF, 47, +-5%, 0.25W	822189	59124	CF1-4VT470J	1	
R 212, 220, 222, R 231, 242	RES, CF, 33K, +-5%, 0.25W	733667 733667	59124	CF1-4VT333J	5	
R 213, 217, 218, R 230, 232, 245, R 249	RES, CF, 10K, +-5%, 0.25W	697102 697102 697102	59124	CF1-4VT103J	7	
R 214, 233	RES, CF, 200K, +-5%, 0.25W	681841	59124	CF1-4VT204J	2	
R 215, 234	RES, CC, 330, +-10%, 0.5W	108589	01121	EB3311	2	
R 221, 250	RES, CF, 82K, +-5%, 0.25W	655027	59124	CF1-4VT823J	2	
R 225	RES, CF, 100K, +-5%, 0.25W	573584	59124	CF1-4104JB	1	
R 226, 248	RES, MF, 3.16K, +-1%, 0.125W, 100PPM	235291	91637	CMF-553161F T-1	2	
R 228, 247	RES, CF, 100K, +-5%, 0.25W	658963	59124	CF1-4VT104J	2	
R 246, 251	RES, CF, 4.7K, +-5%, 0.25W	721571	59124	CF1-4VT472J	2	
R 252	RES, CF, 300K, +-5%, 0.25W	732818	59124	CF1-4VT304J	1	
R 254, 255	RES, CC, 27, +-5%, 0.5W	260984	01121	EB2705	2	
RT 1, 2	THERMISTOR, DISC, POSITIVE, 50, +-30%	816140	54583	911X22E500NRO7A	2	
S 201	SWITCH, SLIDE, DPDT	436691	79727	GF-126	1	
TP 1- 22, 203, TP 205-212	JUMPER, WIRE, NONINSUL, 0.200CTR	816090 816090	91984	1SOT1	31	
TP 201	SOCKET, SINGLE, PWB, FOR 0.080 PIN	170480	74970	105-752	1	
TP 204	SOCKET, SINGLE, PWB, FOR 0.080 PIN	149120	74970	105-0754	1	
U 1	IC, VOLT REG, FIXED, -5 VOLTS, 0.1 AMPS	816322	04713	MC79L05ACG	1	
U 2	IC, VOLT REG, FIXED, +5 VOLTS, 0.1 AMPS	816355	04713	MC78L05ACG	1	
U 3	IC, VOLT REG, FIXED, -18 VOLTS, 1.5AMPS	845474	04713	MC7918CT	1	
U 201	IC, COMPARATOR, QUAD, 14 PIN DIP	387233	27014	LM339N	1	
VR 20, 21	ZENER, UNCOMP, 82.0V, 5%, 1.5MA, 0.5W	844977	04713	1N5268B	2	
VR 202, 213, 233, VR 242	ZENER, UNCOMP, 10.0V, 5%, 12.5MA, 0.4W	810267 810267	04713	1N961BRR1	4	
VR 206, 207, 218, VR 228, 237, 238	ZENER, UNCOMP, 10.0V, 5%, 20.0MA, 0.5W	820480 820480	04713	1N5240BRR1	6	
VR 211, 217, 227, VR 231	ZENER, UNCOMP, 140.0V, 5%, 1.8MA, 1.0W	340703 340703	12969	UZ8114	4	
VR 212, 216, 226, VR 232	ZENER, UNCOMP, 180V, 2%, 0.68MA, 0.4W	816348 816348	04713	1N5279CTA2	4	

Table 6-23. A18 Filter/PA Supply PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
VR 214, 230, 246, VR 247	⚡ ZENER, UNCOMP, 56.0V, 5%, 2.2MA, 0.4W ⚡	832568 832568	04713	1N979BRR1	4	
VR 215, 219, 225, VR 229	⚡ ZENER, UNCOMP, 200.0V, 5%, 5.0MA, 5.0W ⚡	386839 386839	04713	1N5388B	4	
VR 245	⚡ ZENER, UNCOMP, 3.3V, 5%, 20.0MA, 0.4W	820423	04713	1N746ARR1	1	
Z 1- 3	RES, CERM, SIP, 10 PIN, 5 RES, 10K, +-2%	529990	91637	CSC10A-03-103G	3	
Z 201	RES, CERM, SIP, 6 PIN, 5 RES, 100K, +-2%	412726	91637	CSC06A-03-104C	1	
NOTES:	⚡ Static sensitive part.					

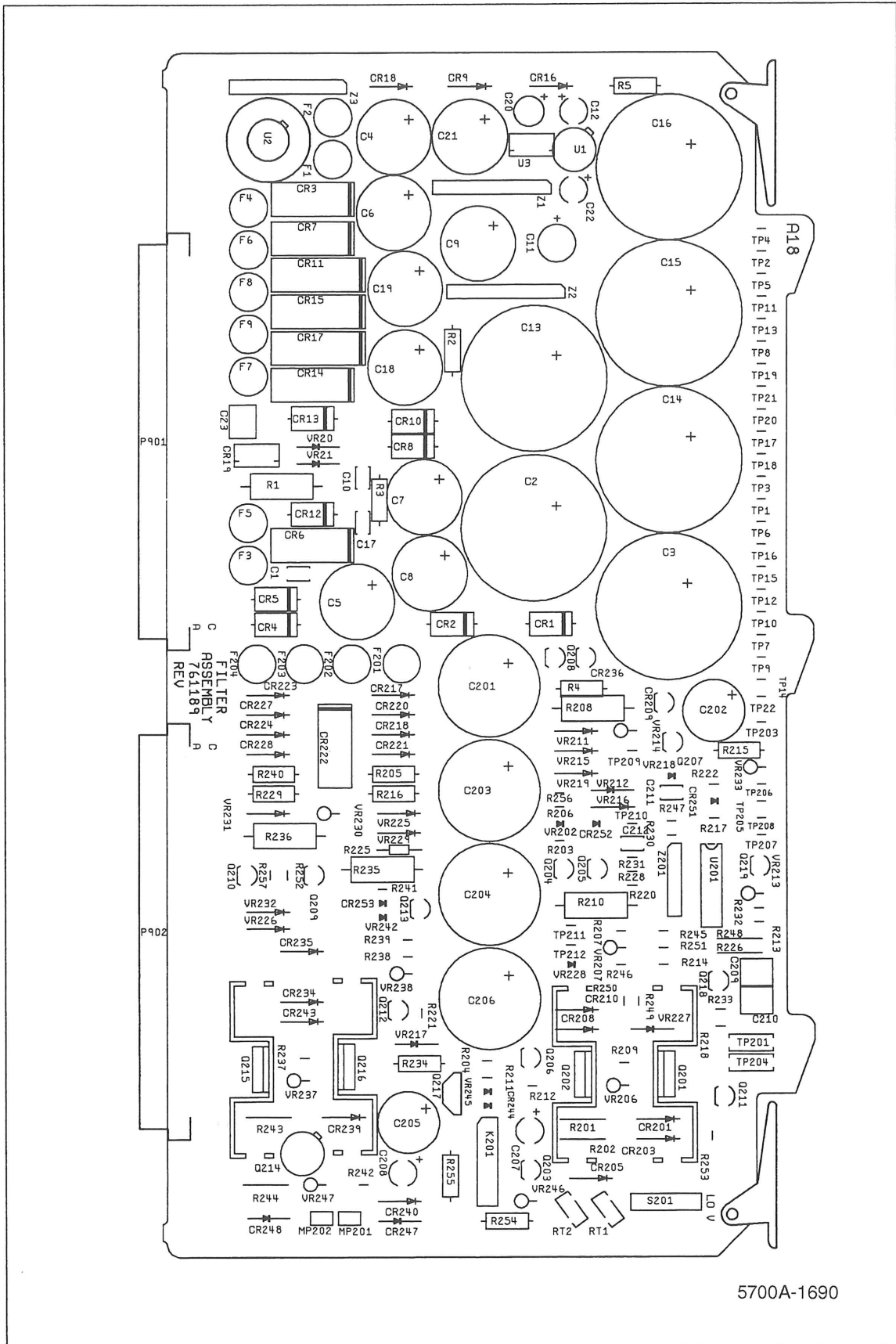


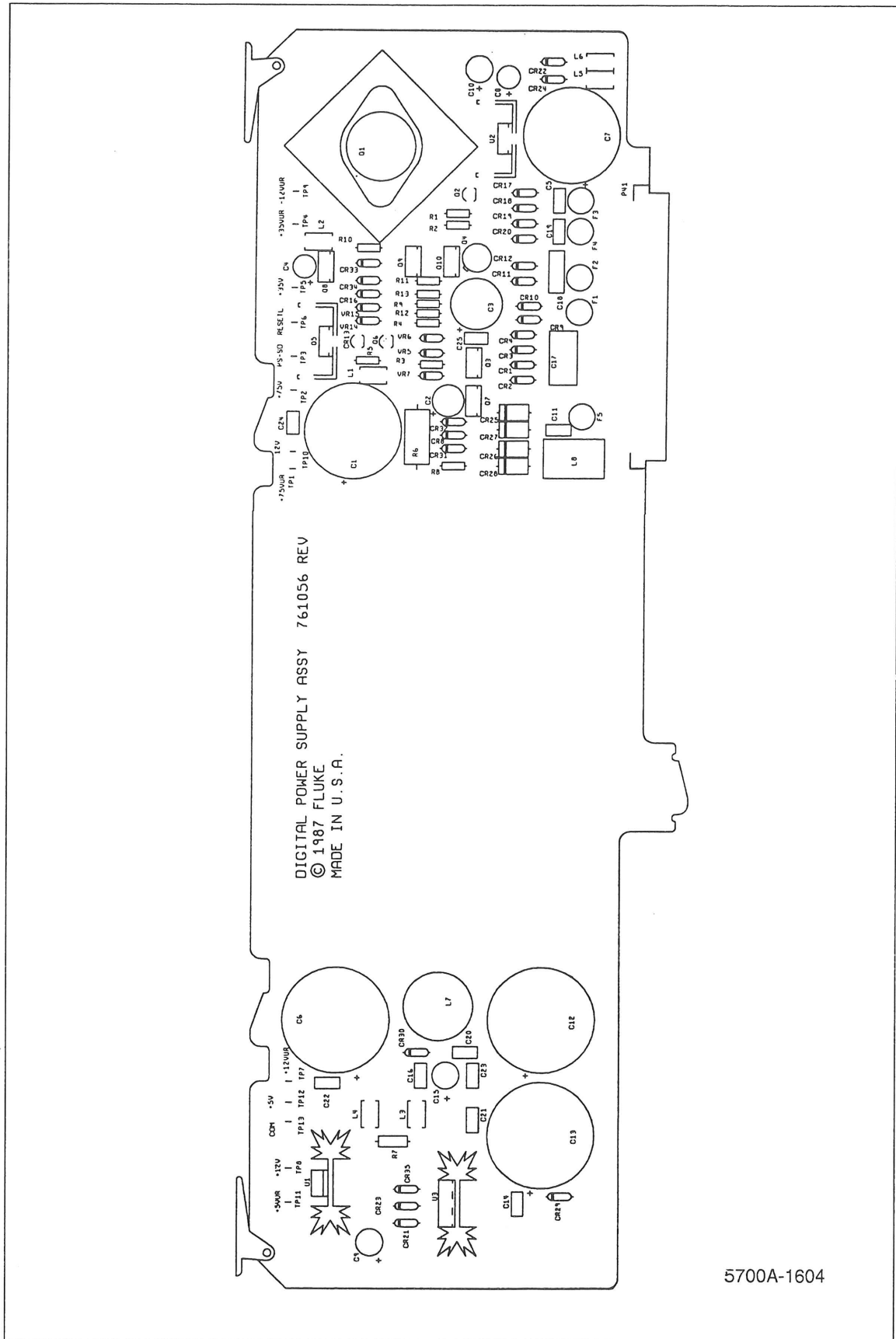
Figure 6-23. A18 Filter/PA Supply PCA

Table 6-24. A19 Digital Power Supply PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1	CAP, AL, 470UF, +-20%, 160V, SOLV PROOF	816835	62643	KME160VN471M30X30LLV	1	
C 2	CAP, AL, 10UF, +-20%, 160V, SOLV PROOF	817064	62643	KME160VB10RM10X16LL	1	
C 3	CAP, AL, 330UF, +-20%, 100V, SOLV PROOF	816785	62643	KME100VB331M16X25LL	1	
C 4, 9	CAP, AL, 10UF, +-20%, 63V, SOLV PROOF	816843	62643	KM63VB10RM5X11RP	2	
C 5, 11	CAP, CER, 0.10UF, +-20%, 50V, X7R	853650	04222	SR215C104MAATR	2	
C 6	CAP, AL, 10000UF, +-20%, 25V, SOLV PROOF	816819	62643	SME25VN103M30X0LLV	1	
C 7	CAP, AL, 6800UF, +30-20%, 25V, SOLV PROOF	782466	62643	KME25VN682M30X25LLV	1	
C 8	CAP, AL, 2.2UF, +-20%, 50V, SOLV PROOF	816868	62643	KME50VB2R2M5X11RP	1	
C 10	CAP, AL, 22UF, +-20%, 35V, SOLV PROOF	817056	62643	KMA35VB220M6X7PT	1	
C 12, 13	CAP, AL, 22000UF, +-20%, 16V, SOLV PROOF	822379	62643	SME16VN223M35X30LLV	2	
C 14, 16, 19- C 23	CAP, CER, 0.22UF, +-20%, 50V, X7R	853648 853648	04222	SR325C224MAATRA	7	
C 15	CAP, AL, 100UF, +-20%, 16V, SOLV PROOF	816850	62643	KME16VB101M6.3X11RP	1	
C 17	CAP, POLYPR, 0.047UF, +-10%, 630V	500827	60935	171/.047/K/630/H	1	
C 18	CAP, POLYPR, 0.047UF, +-10%, 160V	446773	60935	171/.047/K/160/B-C	1	
C 24, 25	CAP, CER, 0.022UF, +80-20%, 500V, Z5U	740340	51406	RPE113-901Z5U223Z9	2	
CR 1- 4, 9- CR 12	DIODE, SI, 200 PIV, 1.0 AMP	586644 586644	04713	1N4935	8	
CR 8, 16, 21- CR 24, 29- 34	DIODE, SI, 100 PIV, 1.0 AMP	742874 742874	65940	1N4002A	12	
CR 13	† DIODE, N-JFET, CURRENT REG, IF=3.0 MA	852137	17856	J9009-TR3	1	
CR 17- 20	DIODE, SI, 50 PIV, 1.0 AMP	379412	04713	1N4933	4	
CR 25- 28	DIODE, SI, 50 PIV, 3.0 AMP	403055	04713	MR850	4	
CR 35	† DIODE, GER, BV=66 V, IO=50MA	180505	66891	1N276	1	
F 1	FUSE, 8X8.5MM, 0.315A, 250V, SLOW, RADIAL	832337	60046	19372-0.315	1	
F 2	FUSE, 8X8.5MM, 0.125A, 250V, SLOW, RADIAL	832261	60046	19372-0.125	1	
F 3, 4	FUSE, 8X8.5MM, 2A, 250V, SLOW, RADIAL	806331	60046	19372-2.000	2	
F 5	FUSE, 8X8.5MM, 3.15A, 250V, SLOW, RADIAL	832253	60046	19372-3.150	1	
H 2	SCREW, MACH, PH, P, STL, 4-40X0.375	152124		COMMERCIAL	1	
H 3, 4	HEAT DIS, CLIP, 1.00, 1.18, .50, TO-220	643353	13103	6038B-TT	2	
H 5	HEAT DIS, VERT FINS, TO-3	342675	13103	6003-B-2	1	
H 6, 7	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	2	
H 11	SCREW, MACH, PH, P, SS, 4-40X.437	403782		COMMERCIAL	1	
L 1- 6	CHOKER, 6TURN	320911	89536	320911	6	
L 7	INDUCTOR, 33 UH	813485	89536	813485	1	
L 8	TRANSFORMER, PULSE	660589	89536	660589	1	
M 1, 2	FOOT, ADHESIVE, RUBBER, GREY, .44X.20	358341	28213	SJ-5003	2	
MP 8, 27	NUT, MACH, HEX, STL, 4-40	110635		COMMERCIAL	2	
MP 9, 10	NUT, CAP EXT LW, STL, 6-32X.109	152819	78189	511-061800-00	2	
MP 11, 12	GROMMET, SLOT, RUBBER, .250, .437	853291	73734	113006	2	
MP 13, 14	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 15, 26	HEAT DIS, VERT, 1.00X1.375X0.50, TO-220	831099	13103	6098B-F2	2	
MP 16	HEAT, DIS, ACC, NYL, TO-3	851907	13103	8182-E1	1	
MP 21	INSUL PART, TRANS, SILICONE, POWER	534453	55285	7403-09FR-54	1	
MP 24	INSUL PART, TRANS, SILICONE, TO-3	473165	55285	7403-09FR-05	1	
MP 25	SPACER, TRANSISTOR MOUNT, DAP, TO-5	152207	07047	10123-DAP	1	
MP 28, 29	SCREW, MACH, PH, P, STL, 6-32X0.250	152140		COMMERCIAL	2	
MP 30, 31	SPACER, SWAGED, RND, BR, 6-32, .125	435578	06540	9531B-B-0632	2	
P 41	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	1	
Q 1	† TRANSISTOR, SI, BV=200V, 80W, TO-3	261347	04713	MJ410	1	
Q 2, 6	† TRANSISTOR, SI, NPN, HI-VOLTAGE	370684	04713	MPSA42	2	
Q 3, 7- 10	† TRANSISTOR, SI, BV=300V, 10W, TO-202	107646	89536	107646	5	
Q 4	† TRANSISTOR, SI, VB=200V, 10W, TO-5	276899	04713	2N5415	1	
Q 5	† TRANSISTOR, SI, BV= 60V, 65W, TO-220	386128	01295	TIP120T	1	

Table 6-24. A19 Digital Power Supply PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
R 1	RES, CF, 5.1, +-5%, 0.25W	640995	59124	CF1-45R1J	1	
R 2	RES, CF, 2K, +-5%, 0.25W	573238	59124	CF1-4202JB	1	
R 3, 12	RES, CF, 100K, +-5%, 0.25W	573584	59124	CF1-4104JB	2	
R 4	RES, CC, 4.7K, +-5%, 0.25W	148072	01121	CB4725	1	
R 5	RES, CF, 12, +-5%, 0.25W	442178	59124	CF1-4120JB	1	
R 6	RES, CC, 10K, +-10%, 2W	110106	01121	GB1031	1	
R 7	RES, CC, 2, +-5%, 0.5W	218735	01121	EB2005	1	
R 8	RES, CF, 120K, +-5%, 0.25W	573592	59124	CF1-4121JB	1	
R 9, 11	RES, CF, 33K, +-5%, 0.25W	573485	59124	CF1-4333JB	2	
R 10	RES, CF, 51K, +-5%, 0.25W	573535	59124	CF1-4513JB	1	
R 13	RES, CC, 10K, +-5%, 0.25W	148106	01121	CB1035	1	
TP 1- 5, 8, TP 10, 12, 13	JUMPER, WIRE, NONINSUL, 0.200CTR	816090 816090	91984	150T1	9	
U 1	IC, VOLT REG, FIXED, +12 VOLTS, 1.5 AMPS	413195	04713	MC7812CT	1	
U 2	IC, VOLT REG, FIXED, -12 VOLTS, 1.5 AMPS	381665	04713	MC7912CT	1	
U 3	IC, VOLT REG, FIXED, 5 VOLTS, 2 AMPS	816918	S3385	SI-3052V	1	
VR 5	ZENER, UNCOMP, 6.2V, 5%, 20.0MA, 0.4W	698662	04713	1N753A-SR4348RL	1	
VR 6	ZENER, UNCOMP, 36.0V, 5%, 3.4MA, 0.4W	186163	04713	1N974B	1	
VR 7	ZENER, UNCOMP, 39.0V, 5%, 3.2MA, 0.4W	831248	04713	1N975BTA2	1	
VR 14, 15	ZENER, UNCOMP, 18.0V, 5%, 7.0MA, 0.4W	327973	14552	1N967B	2	
NOTES:	⚡ Static sensitive part.					



5700A-1604

Figure 6-24. A19 Digital Power Supply PCA

Table 6-25. A20 CPU PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
BT 1	BATTERY, LITHIUM, 3.0V, 0.500AH	821439	67237	ES1045-01	1	
C 1	CAP, TA, 220UF, +-20%, 10V	474288	56289	199D227X0003EA3	1	
C 2- 4, 6, C 101-106, 108- C 111, 113, 115- C 120, 122-133, C 143-145, 152	CAP, POLYES, 0.1UF, +-10%, 50V	649913 649913 649913 649913 649913	60935	185-2/0.1K0050RAB	37	
C 5	CAP, TA, 15UF, +-20%, 20V	807610	56289	199D156X0020DA1	1	
C 8- 11	CAP, CER, 22PF, +-2%, 50V, COG	714832	04222	SR215A220GAT	4	
C 12, 13	CAP, POLYES, 0.22UF, +-10%, 50V	706028	60935	185-2/.22K0050RCB	2	
C 17	CAP, AL, 47UF, +-20%, 35V, SOLV PROOF	643312	62643	LR35VB470M10X15LLV	1	
C 80	CAP, CER, 0.22UF, +80-20%, 50V, Z5U	649939	04222	SR215E224MAA	1	
C 81, 82	CAP, CER, 120PF, +-5%, 50V, COG	721142	04222	SR215A121JAT	2	
C 100	CAP, TA, 2.2UF, +-20%, 16V	706804	56289	199D225X0016AA1	1	
CR 1	LED, RED, T1-3/4, 5MM LEAD SPACING	723486	25088	LDH1111-329	1	
CR 2, 3, 7	DIODE, SI, 100 PIV, 1.0 AMP	742874	65940	1N4002A	3	
CR 4- 6, 8	DIODE, SI, SCHOTTKY BARRIER, SMALL SIGNAL	313247	28480	5082-6264 T25	4	
H 3- 6	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
L 80, 81	CHOKE, 3 TURN	452888	89536	452888	2	
M 3, 4	FOOT, ADHESIVE, RUBBER, GREY, .44X.20	358341	28213	SJ-5003	2	
MP 1, 2	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 7, 8	PAD, ADHESIVE	735365	89536	735365	1	
P 61, 62	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	726450D2TB	2	
R 1, 3	RES, CF, 470, +-5%, 0.25W	573121	59124	CF1-4471JB	2	
R 4	RES, CF, 10M, +-5%, 0.25W	696971	59124	CF1-4106JB	1	
R 5	RES, CF, 1.8K, +-5%, 0.25W	573220	59124	CF1-4182JB	1	
R 6	RES, CF, 6.2K, +-5%, 0.25W	573345	59124	CF1-4622JB	1	
R 51- 54	RES, MF, 5.11K, +-1%, 0.125W, 100PPM	720342	91637	CMF-555111F T-1	4	
R 55	RES, MF, 10K, +-1%, 0.125W, 100PPM	719476	91637	CMF-551002F T-1	1	
R 56, 57	RES, MF, 1K, +-1%, 0.125W, 100PPM	719468	91637	CMF-551001F T-1	2	
R 58, 59	RES, MF, 39.2K, +-1%, 0.125W, 25PPM	312207	91637	CMF-553922F T-9	2	
R 60, 61	RES, MF, 1M, +-1%, 0.125W, 100PPM	719492	91637	CMF-551004F T-1	2	
R 81, 82	RES, CF, 150, +-5%, 0.25W	573030	59124	CF1-4151JB	2	
SW 1	SWITCH, PUSHBUTTON, SPST, MOMENTARY	782656	7Z884	SKHHAM	1	
T 51	RF TRANSFORMER 8 MHZ	813477	89536	813477	1	
TP 1, 3- 12	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	11	
U 1	IC, VOLT SUPERVISOR, 4.55V SENSE INPUT	780577	01295	TI7705ACP	1	
U 2	IC, LSTTL, HEX INVERTER W/OPEN COLLECT	394536	04713	SN74LS05N	1	
U 3	IC, CMOS, HEX INVERTER, UNBUFFERED	741199	04713	MC74HC04N	1	
U 4, 11	IC, CMOS, 14 STAGE BINARY COUNTER	807701	04713	MC74HC4020N	2	
U 5	IC, CMOS, PROG LOG, 35NS, 5700A-90760	845271	89536	845271	1	
U 6	IC, CMOS, PROG LOGIC, 25NS, 5700A-90761	845250	89536	845250	1	
U 8	IC, CMOS, 16 BIT MPU, 8 MHZ, DIP	816926	04713	MC68HC000P-8	1	
U 9	IC, CMOS, QUAD 2 INPUT OR GATE	817312	04713	MC74HC32N	1	
U 10	IC, CMOS, PROG LOGIC, 35NS, 5700A-90762	845268	89536	845268	1	
U 13	IC, NMOS, 32K X 8 EEPROM, 250NS	875260	33297	UPD28C256C-25	1	
U 15	EPROM, PROGRAMMED 27010, A20U015	761262	89536	761262	1	
U 16	EPROM, PROGRAMMED 27010, A20U016	761361	89536	761361	1	
U 17	EPROM, PROGRAMMED 27010, A20U017	761379	89536	761379	1	
U 18	EPROM, PROGRAMMED 27010, A20U018	775247	89536	775247	1	
U 19- 22	IC, CMOS, 32K X 8 STATIC RAM, 120 NSEC	800250	33297	D43256C12L	4	
U 25, 27- 29	IC, CMOS, OCTL LINE DRVR W/3-ST OUT	741892	01295	SN74HCT244N	4	
U 26, 30	IC, CMOS, OCTAL BUS TRANSCEIVER	722017	18324	74HCT245N	2	
U 31	IC, CMOS, DUAL CHANNEL UART (DUART)	799494	66419	XLS68C1C	1	

Table 6-25. A20 CPU PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
U 32	⚡ IC, TTL, DUAL AND DRVR W/OPEN COLLECTOR	393959	01295	SN75451BP	1	
U 33	⚡ IC, CMOS, CLOCK CALENDAR	807693	34371	ITS9263	1	
U 52	⚡ IC, OP AMP, QUAD, 14 PIN DIP	402669	27014	LM324N	1	
X 5, 6, 10	SOCKET, IC, 24 PIN	812198	00779	2-641932-3	3	
X 8	SOCKET, IC, 64 PIN	483842	00779	643575-3	1	
X 13	SOCKET, IC, 28 PIN	448217	91506	228-AG39D	1	
X 15- 24	SOCKET, IC, 32 PIN	807156	00779	2-644018-3	10	
Y 1	CRYSTAL, 7.3728MHZ, +-1, %, HC-18U	742049	5W664	NDK 073	1	
Y 3	CRYSTAL, 32.768KHZ, +-5PPM	811943	61429	FOX-032	1	
Z 1	RES, CERM, DIP, 16 PIN, 15 RES, 3.3K, +-5%	837666	91637	MDP16-01-332J	1	
Z 2, 3	RES, CERM, DIP, 16 PIN, 15 RES, 4.7K, +-5%	416834	91637	MDP16-01-472J	2	
Z 4	RES, CERM, SIP, 10 PIN, 5 RES, 10K, +-2%	529990	91637	CSC10A-03-101G	1	
Z 5	RES, CERM, DIP, 14 PIN, 13 RES, 100K, +-5%	404624	91637	MDP14-01-104J	1	
NOTES:	⚡ Static sensitive part.					

Table 6-25. A20 CPU PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
BT 1	BATTERY, LITHIUM, 3.0V, 0.500AH	821439	67237	ES1045-01	1	
C 1	CAP, TA, 220UF, +-20%, 10V	474288	56289	199D227X0003EA3	1	
C 2- 4, 6, C 101-106, 108- C 111, 113, 115- C 120, 122-133, C 143-145, 152	CAP, POLYES, 0.1UF, +-10%, 50V	649913 649913 649913 649913 649913	60935	185-2/0.1K0050RAB	37	
C 5	CAP, TA, 15UF, +-20%, 20V	807610	56289	199D156X0020DA1	1	
C 8- 11	CAP, CER, 22FF, +-2%, 50V, COG	714832	04222	SR215A220GAT	4	
C 12, 13	CAP, POLYES, 0.22UF, +-10%, 50V	706028	60935	185-2/.22K0050RCB	2	
C 17	CAP, AL, 47UF, +-20%, 35V, SOLV PROOF	643312	62643	LR35VB470M10X15LLV	1	
C 80	CAP, CER, 0.22UF, +80-20%, 50V, Z5U	649939	04222	SR215E224MAA	1	
C 81, 82	CAP, CER, 120PF, +-5%, 50V, COG	721142	04222	SR215A121JAT	2	
C 100	CAP, TA, 2.2UF, +-20%, 16V	706804	56289	199D225X0016AA1	1	
CR 1	LED, RED, T1-3/4, 5MM LEAD SPACING	723486	25088	LDH1111-329	1	
CR 2, 3, 7	DIODE, SI, 100 PIV, 1.0 AMP	742874	65940	1N4002A	3	
CR 4- 6, 8	DIODE, SI, SCHOTTKY BARRIER, SMALL SIGNL	313247	28480	5082-6264 T25	4	
H 3- 6	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
L 80, 81	CHOKE, 3 TURN	452888	89536	452888	2	
M 3, 4	FOOT, ADHESIVE, RUBBER, GREY, .44X.20	358341	28213	SJ-5003	2	
MP 1, 2	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 7, 8	PAD, ADHESIVE	735365	89536	735365	1	
P 61, 62	CONN, D1N41612, TYPE C, RT ANG, 64 PIN	807800	28213	726450D2TB	2	
R 1, 3	RES, CF, 470, +-5%, 0.25W	573121	59124	CF1-4471JB	2	
R 4	RES, CF, 10M, +-5%, 0.25W	696971	59124	CF1-4106JB	1	
R 5	RES, CF, 1.8K, +-5%, 0.25W	573220	59124	CF1-4182JB	1	
R 6	RES, CF, 6.2K, +-5%, 0.25W	573345	59124	CF1-4622JB	1	
R 51- 54	RES, MF, 5.11K, +-1%, 0.125W, 100PPM	720342	91637	CMF-555111F T-1	4	
R 55	RES, MF, 10K, +-1%, 0.125W, 100PPM	719476	91637	CMF-551002F T-1	1	
R 56, 57	RES, MF, 1K, +-1%, 0.125W, 100PPM	719468	91637	CMF-551001F T-1	2	
R 58, 59	RES, MF, 39.2K, +-1%, 0.125W, 25PPM	312207	91637	CMF-553922F T-9	2	
R 60, 61	RES, MF, 1M, +-1%, 0.125W, 100PPM	719492	91637	CMF-551004F T-1	2	
R 81, 82	RES, CF, 150, +-5%, 0.25W	573030	59124	CF1-4151JB	2	
SW 1	SWITCH, PUSHBUTTON, SPST, MOMENTARY	782656	72884	SKHHAM	1	
T 51	RF TRANSFORMER 8 MHZ	813477	89536	813477	1	
TP 1, 3- 12	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	11	
U 1	IC, VOLT SUPERVISOR, 4.55V SENSE INPUT	780577	01295	TI7705ACP	1	
U 2	IC, LSTTL, HEX INVERTER W/OPEN COLLECT	394536	04713	SN74LS05N	1	
U 3	IC, CMOS, HEX INVERTER, UNBUFFERED	741199	04713	MC74HC04N	1	
U 4, 11	IC, CMOS, 14 STAGE BINARY COUNTER	807701	04713	MC74HC4020N	2	
U 5	IC, CMOS, PROG LOG, 35NS, 5700A-90760	845271	89536	845271	1	
U 6	IC, CMOS, PROG LOGIC, 25NS, 5700A-90761	845250	89536	845250	1	
U 8	IC, CMOS, 16 BIT MPU, 8 MHZ, DIP	816926	04713	MC68HC000P-8	1	
U 9	IC, CMOS, QUAD 2 INPUT OR GATE	817312	04713	MC74HC32N	1	
U 10	IC, CMOS, PROG LOGIC, 35NS, 5700A-90762	845268	89536	845268	1	
U 13	IC, NMOS, 32K X 8 EEPROM, 250NS	875260	33297	UPD28C256C-25	1	
U 15	EPROM, PROGRAMMED 27010, A20U015	761262	89536	761262	1	
U 16	EPROM, PROGRAMMED 27010, A20U016	761361	89536	761361	1	
U 17	EPROM, PROGRAMMED 27010, A20U017	761379	89536	761379	1	
U 18	EPROM, PROGRAMMED 27010, A20U018	775247	89536	775247	1	
U 19- 22	IC, CMOS, 32K X 8 STATIC RAM, 120 NSEC	800250	33297	D43256C12L	4	
U 25, 27- 29	IC, CMOS, OCTL LINE DRVR W/3-ST OUT	741892	01295	SN74HCT244N	4	
U 26, 30	IC, CMOS, OCTAL BUS TRANSCEIVER	722017	18324	74HCT245N	2	
U 31	IC, CMOS, DUAL CHANNEL UART (DUART)	799494	66419	XLS68C1C	1	

Table 6-25. A20 CPU PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
U 32	† IC, TTL, DUAL AND DRVR W/OPEN COLLECTOR	393959	01295	SN75451BP	1	
U 33	† IC, CMOS, CLOCK CALENDAR	807693	34371	ITS9263	1	
U 52	† IC, OP AMP, QUAD, 14 PIN DIP	402669	27014	LM324N	1	
X 5, 6, 10	SOCKET, IC, 24 PIN	812198	00779	2-641932-3	3	
X 8	SOCKET, IC, 64 PIN	483842	00779	643575-3	1	
X 13	SOCKET, IC, 28 PIN	448217	91506	228-AG39D	1	
X 15- 24	SOCKET, IC, 32 PIN	807156	00779	2-644018-3	10	
Y 1	CRYSTAL, 7.3728MHZ, +-1, %, HC-18U	742049	5W664	NDK 073	1	
Y 3	CRYSTAL, 32.768KHZ, +-5PPM	811943	61429	FOX-032	1	
Z 1	RES, CERM, DIP, 16 PIN, 15 RES, 3.3K, +-5%	837666	91637	MDP16-01-332J	1	
Z 2, 3	RES, CERM, DIP, 16 PIN, 15 RES, 4.7K, +-5%	416834	91637	MDP16-01-472J	2	
Z 4	RES, CERM, SIP, 10 PIN, 5 RES, 10K, +-2%	529990	91637	CSC10A-03-101G	1	
Z 5	RES, CERM, DIP, 14 PIN, 13 RES, 100K, +-5%	404624	91637	MDP14-01-104J	1	
NOTES:	† Static sensitive part.					

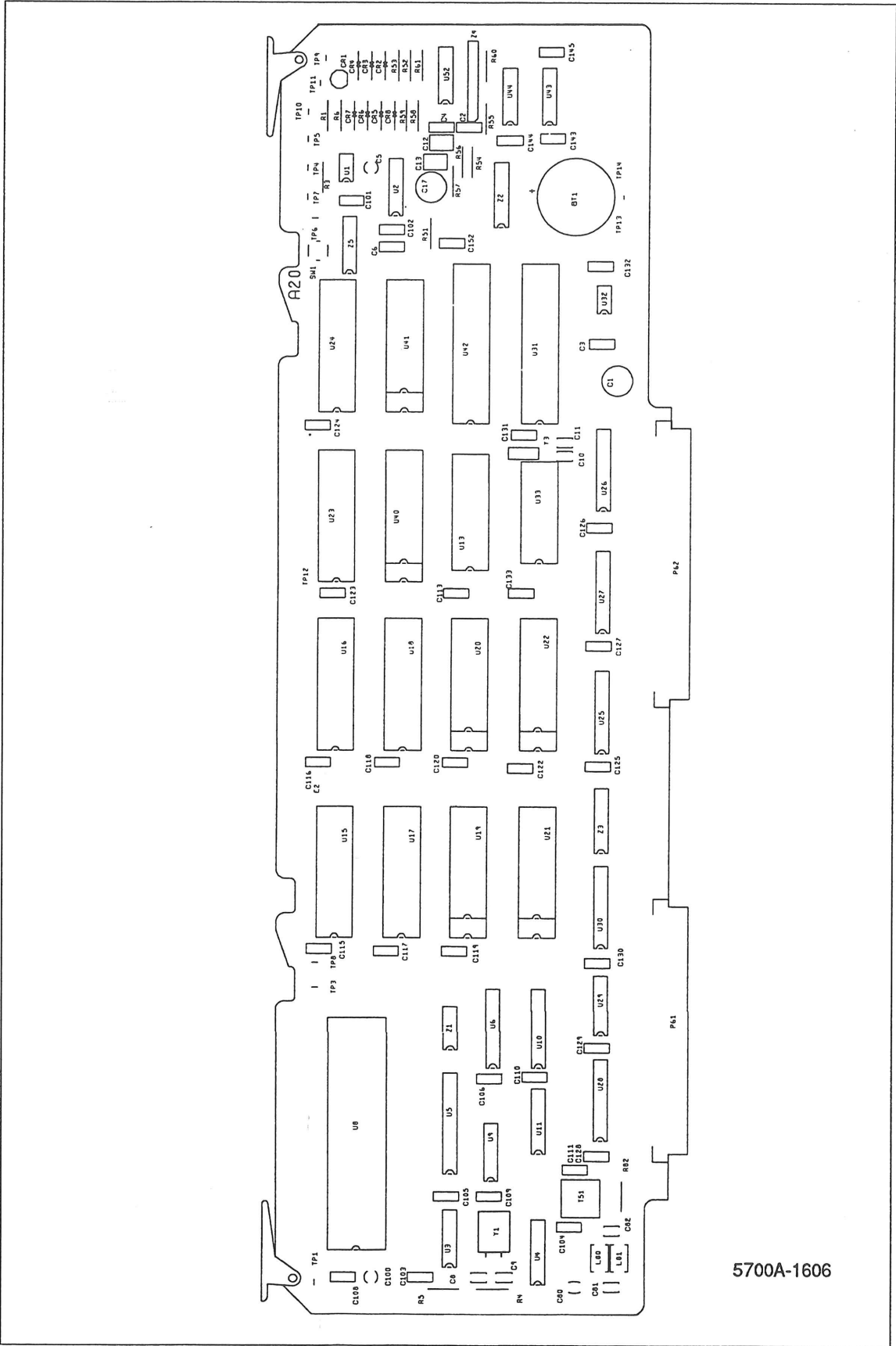


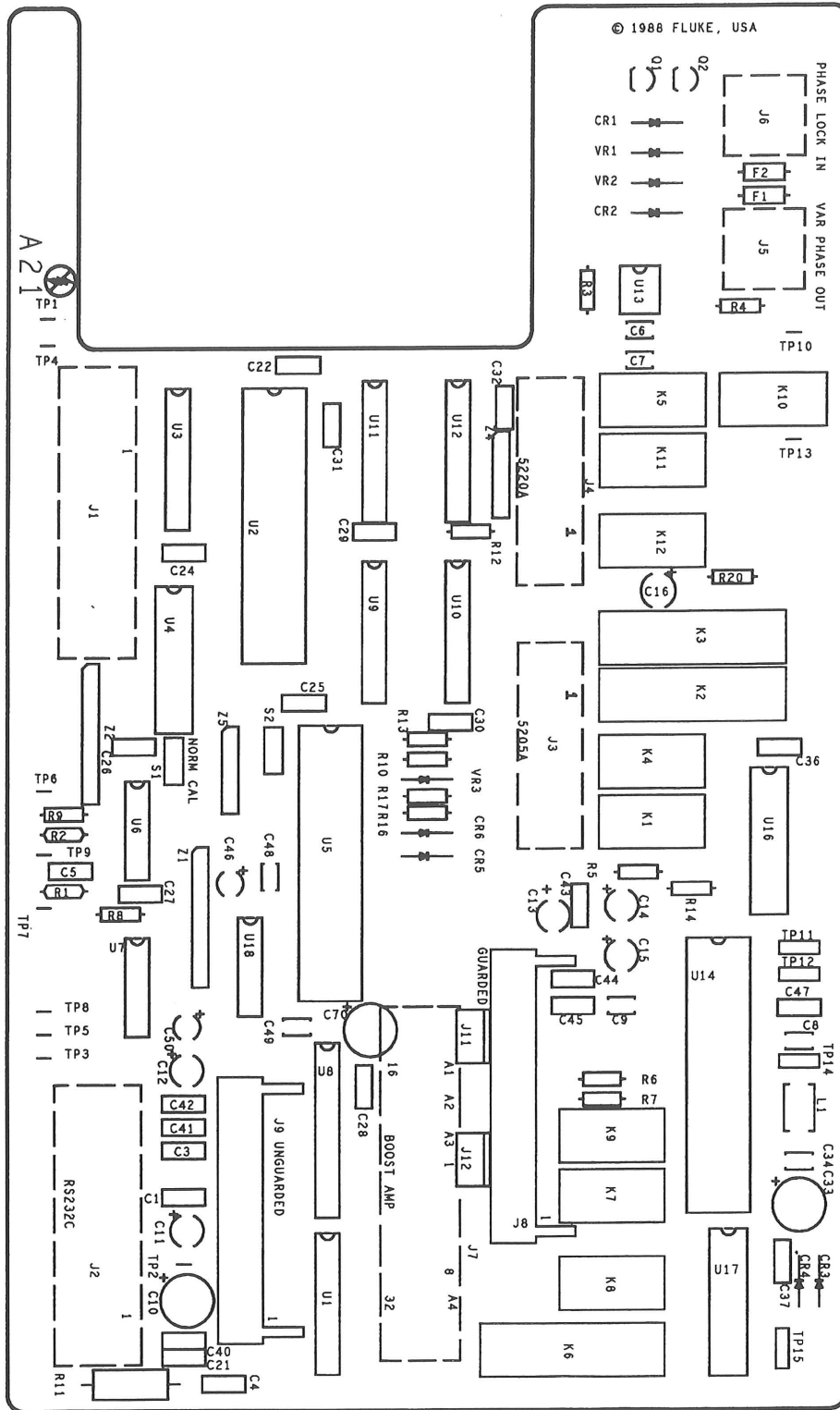
Figure 6-25. A20 CPU PCA

Table 6-26. A21 Rear Panel PCA

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
C 1, 3, 5	CAP, CER, 330PF, +-5%, 50V, COG	697441	04222	SR215A331JAT	3	
C 4, 21, 22, C 24- 32, 34, C 36, 37, 40- C 45, 48, 49	CAP, POLYES, 0.1UF, +-10%, 50V	649913 649913 649913 649913	60935	185-2/0.1K0050RAB	23	
C 6, 7	CAP, CER, 0.22UF, +80-20%, 50V, Z5U	649939	04222	SR215E224MAA	2	
C 8	CAP, CER, 4700PF, +-20%, 100V, X7R	362971	04222	SR201C472MAT	1	
C 9	CAP, CER, 470PF, +-10%, 50V, COG	733071	04222	SR215A471KAT	1	
C 10, 70	CAP, TA, 68UF, +-20%, 15V	193615	56289	196D686X0015LA3	2	
C 11- 15	CAP, TA, 10UF, +-20%, 25V	714774	56289	199D106X0025CA1	5	
C 16	CAP, TA, 10UF, +-20%, 35V	816512	56289	199D106X0035EA1	1	
C 33	CAP, TA, 39UF, +-20%, 20V	358234	56289	199D396X0020EA1	1	
C 46, 50	CAP, TA, 1UF, +-20%, 35V	697417	56289	199D105X0035AA1	2	
C 47	CAP, CER, 33PF, +-2%, 50V, COG	715292	04222	SR215A330GAT	1	
CR 1- 4	DIODE, SI, BV= 75.0V, IO=150MA, 500MW	698720	65940	1N4448	4	
F 1, 2	FUSE, .095 X .28, 0.25A, FAST, AXIAL	806737	75915	R255.250-T	2	
J 1	CONN, MICRO-RIBBON, REC, PWB, 24 POS	851675	02660	57-20240-23	1	
J 2	CONN, D-SUB, PWB, 25 PIN	845214	28198	HDC25M30000-14	1	
J 3	CONN, D-SUB, PWB, 15 SCKT	837336	28198	HDC15F30000	1	
J 4	CONN, D-SUB, PWB, 15 PIN	837328	28198	HDC15M30000	1	
J 5, 6	CONN, COAX, BNC (F), PWB	479162	24931	28JR175	2	
J 7	CONN, D-SUB, PWB, 4 CAVITY, 32 SCKT	810846	02660	117-DDM-36W4SU	1	
J 8	HEADER, 2 ROW, .100CTR, 40 PIN	807453	59730	501-4027ES	1	
J 9	HEADER, 2 ROW, .100CTR, 34 PIN	807446	59730	500-3427ES	1	
J 11, 12	HEADER, 1 ROW, .100CTR, 3 PIN	837351	00779	103638-2	2	
K 1, 4, 5, K 7- 12	RELAY, ARMATURE, 2 FORM C, 5V	733063 733063	33297	MR602-5SR	9	
K 2, 3, 6	RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078	61529	DS4EML2DC5VCH239	3	
L 1	CHOKO, 6TURN	320911	89536	320911	1	
MP 1, 2	SPACER, SWAGED, RND, BR, 6-32, .220	261727	06540	9533B-B-0632	2	
MP 3- 10	SPACER, SWAGED, RND, BR, 4-40, .234	385310	06540	9533B-B-0440	8	
MP 21, 22	SPACER, SWAGED, RND, BR, 6-32, .437	423806	06540	9536B-B-0632	2	
Q 1, 2	TRANSISTOR, SI, N-CHAN, TO-92, SWITCH	832139	17856	J2903	2	
R 1	RES, MF, 1K, +-1%, 0.125W, 100PPM	719468	91637	CMF-551001F T-1	1	
R 2	RES, MF, 332, +-1%, 0.125W, 100PPM	192898	91637	CMF-553320F T-1	1	
R 3	RES, CF, 5.1K, +-5%, 0.25W	573329	59124	CF1-4512JB	1	
R 4, 5, 12, R 13, 16, 17	RES, CF, 10K, +-5%, 0.25W	573394 573394	59124	CF1-4103JB	6	
R 6	RES, CF, 15K, +-5%, 0.25W	573428	59124	CF1-4153JB	1	
R 7, 14	RES, CF, 1K, +-5%, 0.25W	573170	59124	CF1-4102JB	2	
R 8, 9	RES, CF, 200, +-5%, 0.25W	573055	59124	CF1-4201JB	2	
R 10	RES, CF, 620, +-5%, 0.25W	641092	59124	CF1-4621JB	1	
R 11	RES, CC, 1K, +-10%, 1W	109371	01121	GB1021	1	
R 20	RES, CF, 200K, +-5%, 0.25W	573634	59124	CF1-4204JB	1	
S 1	SWITCH, SLIDE, SPDT, LOW PROFILE	911250	7Z884	SSSS91 (G7857294M)	1	
TP 1- 15	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	15	
U 1	IC, CMOS, OCTAL BUS TRANSCEIVER	722017	18324	74HCT245N	1	
U 2	IC, NMOS, GPIB ADAPTER	585240	01295	TMS9914ANL	1	
U 3	IC, LSTTL, OCTAL GPIB XCVR W/OPEN COL	585224	01295	SN75160BN	1	
U 4	IC, LSTTL, OCTAL IEEE-488 BUS TRANSCVR	686022	01295	SN75162BN	1	
U 5	IC, CMOS, DUAL CHANNEL UART (DUART)	799494	66419	XL568C1C	1	
U 6	IC, TTL, QUAD RS232C LINE DRIVER	414052	04713	MC1488P	1	
U 7	IC, TTL, QUAD RS232C LINE RECEIVER	524850	04713	MC1489AN	1	
U 8	IC, CMOS, PROG LOGIC, 35NS, 5700A-90790	845255	89536	845255	1	
U 9, 10	IC, CMOS, OCTL D F/F W/3-STATE, +EDG TRG	585364	04713	MC74HCT374N	2	

Table 6-26. A21 Rear Panel PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	NOTES
U 11, 12	⚡ IC, CMOS, OCTL LINE DRVR W/3-ST OUT	741892	01295	SN74HCT244N	2	
U 13	⚡ IC, OP AMP, JFET INPUT, 22V SUPPLY, DIP	832584	04713	LF356BN	1	
U 14	⚡ IC, CMOS, PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1	
U 16, 17	⚡ IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	2	
U 18	⚡ IC, COMPARATOR, HI-SPEED, 14 PIN DIP	647115	18324	NE522N	1	
VR 1, 2	⚡ ZENER, UNCOMP, 3.3V, 10%, 20.0MA, 0.4W	698647	04713	1N746-SR4348RL	2	
VR 3	⚡ ZENER, UNCOMP, 4.7V, 10%, 20.0MA, 0.4W	387084	04713	1N750	1	
W 1	CABLE, BOOST, B-OUT HIGH	802827	89536	802827	1	
W 2	CABLE, BOOST, B-SENSE HIGH	802850	89536	802850	1	
W 3	CABLE, BOOST HIGH VOLTAGE	802843	89536	802843	1	
X 8	SOCKET, IC, 24 PIN	812198	00779	2-641932-3	1	
Z 1, 2	RES, CERM, SIP, 10 PIN, 9 RES, 4.7K, +-2%	484063	91637	CSC10B01472G	2	
Z 4	RES, CERM, SIP, 6 PIN, 5 RES, 4.7K, +-2%	494690	91637	CSC06B01472G	1	
Z 5	RES, CERM, SIP, 6 PIN, 5 RES, 10K, +-2%	500876	91637	CSC06A01-103G	1	
NOTES:	⚡ Static sensitive part.					



5700A-1609

Figure 6-26. A21 Rear Panel PCA

Service Centers

USA	INTERNATIONAL			
<p>California FLW Fluke Calibration Center C/o FLW Service Corporation 3505 Cadillac Ave., Bldg E Costa Mesa, CA 92626 TEL: (714) 863-9031 FAX: (714) 751-0213</p> <p>Fluke Service Center 42711 Lawrence Place Fremont, CA 94538 TEL: (510) 651-5112 FAX: (510) 651-4962</p> <p>Illinois Fluke Service Center 1150 W. Euclid Avenue Palatine, IL 60067 TEL: (708) 705-0500 FAX: (708) 705-9989</p> <p>New Jersey Fluke Service Center W. 75 Century Rd Paramus, N.J. 07652-0930 TEL: (201) 599-9500 (599-0919) FAX: (201) 599-2093</p> <p>Texas Fluke Service Center - Dallas 2104 Hutton Drive Suite 112 Carrollton, TX 75006 TEL: (214) 406-1000 FAX: (214) 406-1072</p> <p>Washington Fluke Service Center Fluke Corporation Building #4 1420 - 75TH St. S.W. Everett WA 98203 TEL: (206) 356-5560 FAX: (206) 356-6390</p>	<p>Australia Phillips Sci. and Ind., Pty., L. 745 Springvale Road Mulgrave Victoria 3170 TEL: 61-3-881-3666 FAX: 61-3-881-3636</p> <p>Phil. Sci. & Ind. Blk F, Centrect. 34 Waterloo Road North Ryde, N.S.W. 2113 TEL: 61-2-888-8222 FAX: 61-2-888-0440</p> <p>Austria Fluke Vertriebsges. GMBH (GM) SudrandstraBe 7 P.O. Box 10, A-1232 Vienna TEL: 43-1-614-100 FAX: 43-1-614-1010</p> <p>Bahrain Mohammed Fakhroo & Bros. P.O. Box 439 Bahrain TEL: 973-253529 FAX: 973-275996</p> <p>Belgium N.V. Fluke Belgium S.A. Sales & Service Dept. Langeveldpark - Unit 5 & 7 P.Basteleusstraat 2-4-6 1600 St. Pieters - Leeuw TEL: 218-2-331-2777 (ext 218) FAX: 32-2-331-1489</p> <p>Bolivia Casilla 7295, Calle Ayacucho No. 208 Edificio Flores, 5to. Piso La Paz, Bolivia TEL: 591-2-317531 or 317173 FAX: 591-2-317545</p> <p>Brazil Philips Medical Systems, LTDA Av. Interlagos North 3493 - Campo Grande 04661-200 Sao Paulo S.P. TEL: 55-11-523-4811 FAX: 55-11-524-4873 (ID 2148)</p> <p>Sigtron Instrumentos E. Servicios Rua Alvaro Rodrigues 269 - Brooklin Sao Paulo, Sp TEL: 55-11-240-7359 FAX: 55-11-533-3749</p> <p>Sistest Sist. Instr. Testes Ltda Av. Ataulfo De Paiva 135 S/ 1117 - Leblon 22.449-900 Rio De Janeiro, Rj, Brazil TEL: 55-21-259-5755 or 512-3679 FAX: 55-21-259-5743</p>	<p>Bulgaria Ac Sophico, Cust. Supp. Serv. P.O. Box 42 1309 Sofia, Bulgaria TEL: 359-2-200785 FAX: 359-2-220910</p> <p>C.S.F.R. Elso NA. Berance 2 16200 Praha 6 TEL: 42-2-316-4810 FAX: 42-2-364986</p> <p>Data Elektronik BRNO Jugoslavka 113 61300 Brno TEL: 42-5-57400-2 FAX: 42-5-574002</p> <p>Canada Fluke Electronics Canada Inc. 400 Britannia Rd East, Ut #1 Mississauga, Ontario L4Z 1X9 TEL: 905-890-7600 FAX: 905-890-6866</p> <p>Chile Intronica, Instrumen Electronica, S.A.C.I. Guardia Vieja 181 Of. 503 Casilla 16500, Santiago 9 TEL: 56-2-232-3888 FAX: 56-2-231-6700</p> <p>China Fluke S.C., Room 2111 Scite Tower Jianguomenwai Dajie Beijing 100004, PRC TEL: 86-10-512-6351, 6319, 3437 FAX: 86-10-512-3437</p> <p>Colombia Sistemas E Instrument., Ltda. 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Box 8294, Skeifunni 17 128 Reykjavik TEL: 354-1-681665 FAX: 354-1-680664</p> <p>India Philips India Limited Band Box House 254 Dr. Annie Besant Road Bombay 400 025 TEL: 91-22-493-0311 FAX: 91-22-495-0498</p> <p>Hinditron Services Pvt. Inc. 33/44A 8th Main Road Raj Mahal Vilas Extension Bangalore 560 080 TEL: 91-80-334-8266 or 0068 FAX: 91-80-334-5022</p> <p>Hinditron Services Pvt. Ltd Hinditron House, 23-B Mahal Industrial Estate Mahakali Caves Rd, Andheri East Bombay 400 093 TEL: 91-22-836-4560, 6590 FAX: 91-22-836-4682</p> <p>Hinditron Services Pvt. Ltd Castle House, 5th Floor 5/1 A, Hungerford Street Calcutta 700 017 TEL: 91-33-400-194 FAX: 91-33-247-6844</p> <p>Hinditron Services Pvt. Ltd 204-206 Hemkunt Tower 98 Nehru Place New Delhi 110 019 TEL: 91-11-641-3675 or 643-0519 FAX: 91-11-642-9118</p> <p>Hinditron Services Pvt. Ltd. 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