

# **Agilent** **E4418B Power Meter**

## **Service Guide** **Addendum (CLIP)**

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**Agilent Technologies**



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# Service Guide Addendum (CLIP)

This Service Guide Addendum (CLIP) expands repair parts information for the Agilent Technologies Model E4418B Power Meter being delivered under U.S. Navy Contract Number N00104-07-D-DC15.

CLIP Part Number E4418-90031

August 2007

See the Service Guide For Safety Information,  
Warranties, and Regulatory information.

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## Agilent Technologies E4418B Power Meter



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# Component Level Information Package

This Component Level Information Package contains information for identifying and ordering replaceable parts for your instrument.

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## **Replacement Parts Ordering**

### **Parts listed**

To order a part on the parts list, quote the Agilent Technologies part number, indicate the quantity desired, and address the order to the nearest Agilent Technologies Sales Office. Parts manufactured by Agilent Technologies are identified with 1LQK8 in the Mfr. Code column of the parts list. Parts not manufactured by Agilent Technologies should be ordered from the vendor whose code is listed in the Mfr. Code column of the parts list. Vendors and their addresses are listed in Table 1.

### **Parts not listed**

To order a part from Agilent Technologies that is not on a parts list, include the model number and serial number of the instrument, a description of the part (including its function), and the quantity desired. Address the order to the nearest Agilent Technologies Sales Office.

### **Direct mail order system**

To order using the direct mail order system, contact the nearest Agilent Technologies Sales Office for information.

Within the USA, Agilent Technologies can supply parts through a direct mail order system. The advantages to the system are direct ordering and shipment from the Agilent Technologies Part Center. There is no maximum or minimum dollar amount on any mail order. (There is a minimum amount for parts ordered through a local Agilent Technologies Sales Office when the orders require billing and invoicing.) Transportation costs are prepaid (there is a small handling charge for each order) and no invoices.

In order for Agilent Technologies to provide these advantages, a check or money order must accompany each order. Mail order forms and specific ordering information are available through the nearest Agilent Technologies Sales Office.

### **Exchange assemblies**

Some assemblies contained in this instrument may be part of an exchange program with Agilent Technologies. The parts lists in the Service Guide will list any exchange part numbers that are applicable to the assemblies contained in this instrument. If the Service Guide does not show an exchange part number, contact your nearest Agilent Technologies Sales Office to see if the assembly is available on the Agilent Technologies Exchange Program.

The exchange program allows you to exchange a faulty assembly with one that has been repaired and the performance verified by Agilent Technologies.

After you receive the exchange assembly, return the defective assembly to Agilent Technologies. A United States customer has 30 days to return the defective assembly. If you do not return the defective assembly within 30 days, Agilent Technologies will charge you an additional amount. This amount is the difference in price between a new assembly and that of the exchange assembly. For orders not originating in the United States, contact the nearest Agilent Technologies Sales Office for information.

## **Replaceable Parts Lists**

This Component Level Information Package lists replaceable parts for the instrument and its subassemblies listed in the Table of Contents.

The Replaceable Parts Lists is in two parts. The first part contains all available information on components making up the assembly as follows:

- Schematic reference designator
- Description and physical characteristics
- Agilent Technologies part number

Following each parts list are the associated part location and schematic diagrams. These diagrams are presented in Adobe Acrobat pdf file formats which means you will be able to navigate around the drawing and view them at various magnifications to locate and identify your item of interest.

### **Using the Replaceable Parts Lists**

To use the Replaceable Parts List, proceed as follows:

1. Locate the component on the part location diagram or schematic diagram for the assembly you are working on.
2. Go to the Replaceable Parts List table for that assembly and find the reference designator and Agilent Technologies part number.
3. Using the Agilent Technologies part number, go to Table 2 for the Component Descriptions and Sources of Supply information on the component.
4. Go to Table 1 to obtain the Manufacturer's Name and Address using the manufacturer's code listed in the Component Descriptions and Sources of Supply table.



Manufacturer's codes appearing in this CLIP are listed here along with the manufacturer's name and address:

**Table 1. Manufacturer's Name and Address**

CODE	NAME AND ADDRESS	CODE	NAME AND ADDRESS
00001	AMIS SEMICONDUCTOR 2300 BUCKSKIN ROAD POCATELLO ID 83201	14099	SEMTECH CORPORATION INC 200 FLYNN ROAD CAMARILLO CA 93012-8790
00002	ARROW ELECTRONICS ASIA (S) PTE LTD 31 KAKI BUKIT ROAD 3, 417818 SINGAPORE	17540	SKYWORKS SOLUTIONS INC 20 SYLVAN RD WOBURN MA 01801 - 1845
00003	EPSON TOYOCOM 421-8 HINO HINO-SHI TOKYO 191-8501 JAPAN	1ES66	MAXIM INTEGRATED PRODUCTS INC 120 SAN GABRIEL DR SUNNYVALE, CA 94086
00004	LIGHTS ELECTRONICS PTE LTD 15 CHANGI BUSINESS PARK CENTRAL 1 LEVEL 6, 486057 SINGAPORE	1LQK8	AGILENT TECHNOLOGIES INC DIV TMO CUSTOMER BUS CTR 9780 S MERIDIAN BLVD ENGLEWOOD CO 80112 - 5910
00005	LIONEX ELECTRONICS (S) PTE LTD 17-2-29 BAYAN POINT MEDAN KAMPUNG RELAU 11900 BAYAN LEPAS PENANG	1MQ07	SEMICONDUCTOR COMPONENTS INDUSTRIES LLC (DBA ON SEMICONDUCTOR LLC) 5005 EAST MCDOWELL PHOENIX AZ 85008
00006	MICRO COMMERCIAL COMPONENTS 20736 MARILLA STREET CHATSWORTH CA 91311	1Y0K8	COOPER ELECTRONIC TECHNOLOGIES 3601 QUANTUM BLVD BOYNTON BEACH FL 33426
00007	SUPERNOVA ELECTRONIC (S) PTE LTD 8 KAKI BUKIT ROAD 2 04-13/14 RUBY WAREHOUSE COMPLEX 417841 SINGAPORE	24226	GOWANDA ELECTRONICS CORP 1 MAGNETICS PARKWAY GOWANDA NY 14070 - 0111
00008	WESTECH ELECTRONICS LTD 34 KAKI BUKIT CRESCENT KAKI BUKIT TECHPARK 1 04-00 416263 SINGAPORE	24355	ANALOG DEVICES INC DIV CORPORATE HEADQUARTERS 1 TECHNOLOGY WAY NORWOOD MA 02062 - 9106
00779	TYCO ELECTRONICS CORPORATION CUSTOMER SERVICE DEPT PO BOX 3608 HARRISBURG PA 17105-3608	27014	NATIONAL SEMICONDUCTOR CORP 2900 SEMICONDUCTOR DR PO BOX 58090 MS 30-115 SANTA CLARA CA 95051-0606
01295	TEXAS INSTRUMENTS INC SEMICONDUCTOR GROUP 13500 N CENTRAL EXPRESSWAY PO BOX 655303 DALLAS TX 75272-5303	27264	MOLEX PRODUCTS COMPANY 2222 WELLINGTON CT LISLE IL 60532
027H5	BERG ELECTRONICS INC 825 OLD TRAIL RD ETTERS PA 17319 - 9351	29990	AMERICAN TECHNICAL CERAMICS 1 NORDEN LN HUNTINGTON STATION NY 11746 - 2142
04713	FREESCALE SEMICONDUCTOR INC DBA MOTOROLA 2100 E ELLIOT RD TEMPE AZ 85284 - 1806	2N936	VISHAY SPRAGUE SANFORD INC DIV SPRAGUE 1754 MAIN ST SANFORD ME 04073 - 3245
07263	FAIRCHILD SEMICONDUCTOR CORPORATION CORPORATE HEADQUARTERS 333 WESTERN AVENUE SOUTH PORTLAND ME 04106-1705	31433	KEMET ELECTRONICS CORP P O BOX 5928 GREENVILLE SC 29606
0ERJ5	SIPEX CORPORATION 22 LINNELL CIR BILLERICA MA 01821 - 3901	32997	BOURNS INC 1200 COLUMBIA AVE RIVERSIDE CA 92507 - 2114
		33297	NEC ELECTRONICS USA INC ELECTRONIC ARRAYS DIV 2880 SCOTT BLVD SANTA CLARA CA 95052
		50434	AVAGO TECHNOLOGIES US INC 350 W TRIMBLE RD SAN JOSE CA 95131 - 1008

**Table 1. Manufacturer's Name and Address (Continued)**

CODE	NAME AND ADDRESS	CODE	NAME AND ADDRESS
50558	ELECTRONIC CONCEPTS INC 526 INDUSTRIAL WAY WEST EATONTOWN NJ 07724 - 2212	91662	AVX CORPORATION 3900 ELECTRONICS DR RALEIGH NC 27604 – 1620
54473	MATSUSHITA ELECTRIC CORP OF AMERICA 2 PANASONIC WAY M/S 7H-4 SECAUCUS NJ 07094	D0611	VISHAY ELECTRONIC COMPONENTS EUROPE VISHAY ELECTRONIC GMBH ROEDERSTEIN DIVISION WATZMANNSTRASSE 69 LANDSHUT GM 84034
55322	SAMTEC INC 810 PROGRESS BLVD PO BOX 1147 NEW ALBANY IN 47150-1147	D2528	ROSENBERGER POST OFFICE BOX 10113 LANCASTER PA 17605-0113
59124	KOA SPEER ELECTRONICS INC BOLIVAR DRIVE PO BOX 547 BRADFORD PA 16701	F7178	TT ELECTRONICS 17 R DU KEFIR SENIA SUD ORLY FR 94310
64155	LINEAR TECHNOLOGY CORP 720 SYCAMORE DRIVE MILPITAS CA 95035	H1V34	NXP BV HIGH TECH CAMPUS 60 EINDHOVEN NETHERLANDS 5656 AG
65786	CYPRESS SEMICONDUCTOR CORP CORPORATE HEADQUARTERS 3901 NORTH FIRST STREET SAN JOSE CA 95134-1506	KB732	APW ELECTRONIC SOLUTIONS LTD FLANDERS ROAD HEDGE END SOUTHAMPTON UK SO30 2LG
65940	ROHM CORPORATION 15375 BARRANCA PARKWAY SUITE B207 IRVINE CA 92718	S4217	NIPPON CHEMICON 5-6-4 Osaki Shinagawa-ku Tokyo 141-8605 Japan
68994	XILINX INC 2100 LOGIC DRIVE SAN JOSE CA 95124 – 3400	S7293	YAGEO CORPORATION 7 F NO 270 CHUNG HSIAO ROAD SECTION 4 TAIPEI TW
78189	ITW SHAKEPROOF AUTOMOTIVE PRODUCTS 1201 ST CHARLES ST ELGIN IL 60120	S7506	KYOCERA CORPORATION MIE-TAMAKI FACTORY 704-19 NOJINO TAMAKA CHOME WATARAI-GUN MIE PREF 519-04 JP
84411	AMERICAN SHIZUKI CORP 301 W O ST OGALLALA NE 69153 - 1844	SS898	MURATA MANUFACTURING CO LTD 2-26-10 TENJIN NAGAOKAKYO JP 617-8555
91637	VISHAY DALE ELECTRONICS VISHAY AMERICAS INC DBA VISHAY DALE ELECTRONICS INC DIV VISHAY DALE ELECTRONICS 1122 23RD STREET COLUMBUS NE 68602 - 0609		

**Table 2. Component Descriptions and Sources of Supply**

<b>Agilent Part No.</b>	<b>Description and Physical Characteristics</b>	<b>MFR Code</b>	<b>MFR Part Number</b>
00436-80001	COIL VARIABLE	1LQK8	00436-80001
0122-0610	DIODE VVC 20PF SOT23	17540	SMV1211-001
0160-3762	CAP-FXD 0.68UF 5PCT 50V POLYC-MET	50558	MC1-9629J
0160-5790	CAP-FXD 0.1UF 20PCT 25V CER X7R	31433	C1206C104M5RAC
0160-5945	CAP FXD 0.01UF 10PCT 50V CER X7R	91662 31433 SS898 7J069 2N936	08055C103KATA C0805C103K5RAC GRM216R71H103KA01J C2012X7R1H103K VJ0805Y103KXAMT
0160-5967	CAP FXD 100PF 5PCT 50V CER C0G	91662 31433 SS898 7J069 2N936	08055A101JATA C0805C101J5GAC GRM2165C1H101JA01D C2012COG1H101J VJ0805A101JXAMT
0160-6096	CAP-FXD 470PF 5PCT 50V CER C0G	91662	12065A471JAT A
0160-6104	CAP-FXD 2200PF 5PCT 50V CER C0G	91662	12065A222JATRA
0160-6222	CAP-FXD 0.1UF 10PCT 50V CER X7R	31433	C1210C104K5RAC
0160-6734	CAP-FXD 0.047UF 10PCT 50V CER X7R 1206	31433	C3216X7R1H473K
0160-6736	CAP FXD 0.01UF 10PCT 50V CER X7R	91662 31433 SS898 7J069 2N936	12065C103KATA C1206C103K5RAC GRM316R71H103KD01D C3216X7R1H103K VJ1206Y103KXAMT
0160-6742	CAP-FXD 15PF 5PCT 50V CER C0G	31433	C1206C150J5GAC
0160-6757	CAP-FXD 100PF 5PCT 50V CER C0G	31433	C1206C101J5GAC
0160-6908	CAP-FXD 0.47UF 10PCT 50V CER X7R	SS898	GRM55RR71H474KA01L
0160-7136	CAP-FXD 0.1UF 1PCT 100V POLYP-FL	84411	HEW860-100NF+/- 1%100V
0160-7332	CAP-FXD 6800PF 10PCT 50V CER X7R	31433	C1206C682K5RAC
0160-7708	CAP FXD 1000PF 5PCT 50V CER C0G	91662 31433 7J069	08055A102JATRA C0805C102J5GAC C2012COG1H102JT
0160-7751	CAP FXD 0.01UF 10PCT 50V CER X7R	91662 31433 SS898 7J069	06035C103KAT C0603C103K5RAC GRM188R71H103KA01D C1608X7R1H103KT
0160-7771	CAP FXD 8.2PF 3PCT 50V CER C0G	91662 0JY53 31433 7J069	06035A8R2CAT 0603G8R2C500ST C0603C829C5GAC C1608C0G1H8R2C
0160-7798	CAP FXD 0.1UF 10PCT 50V CER X7R	91662 31433 SS898 7J069 2N936	08055C104KATA C0805C104K5RAC GRM21BR71H104KA11L C2012X7R1H104K VJ0805Y104KXAMT

**Table 2. Component Descriptions and Sources of Supply (Continued)**

<b>Agilent Part No.</b>	<b>Description and Physical Characteristics</b>	<b>MFR Code</b>	<b>MFR Part Number</b>
0160-7835	CAP FXD 100PF 5PCT 50V CER C0G	91662 31433 SS898 7J069 2N936	06035A101JAT C0603C101J5GAC GRM1885C1H101JA01D C1608C0G1H101J VJ0603A101JXA
0160-7855	CAP-FXD 33PF 5PCT 50V CER C0G	91662	06035A330JAT
0160-7977	CAP FXD 75PF 5PCT 50V CER C0G	31433 7J069	C0603C750J5GAC C1608COG1H750J
0160-8059	CAP-FXD 1UF 10PCT 25V CER X7R	31433	C1206C105K3RAC
0160-8357	CAP-FXD 0.022UF 2PCT 50V POLYE-MET-FLM	54473	ECH-U1H223GX
0161-0768	CAP FXD 36PF 500V	29990	100B360FP500X
0161-0769	CAP FXD 200PF 300V	29990	100B201FP300X
0180-3472	CAP-FXD 1000UF 20PCT 35V AL-ELCTLT	S4217	CEUSM1E102
0180-3744	CAP-FXD 4.7UF 20PCT 10V TA	31433	T491B475M010AS
0180-3751	CAP FXD 1UF 20PCT 35V TA	91662 S7965 33297	TAJB105M035 SK-1V105M-RB ESVB21V105M
0180-3975	CAP-FXD 2.2UF 20PCT 20V TA	2N936	293D225X0020B2E3
0180-4054	CAP-FXD 3.3UF 20PCT 20V TA	91662	TAJB335M020R
0180-4116	CAP FXD 22UF 20PCT 20V TA	91662 S7965	TAJD226M020 SK2-1D226M-RD0
0180-4228	CAP-FXD 47UF 20PCT 10V TA	2N936	293D476X0010D2WE3
0180-4274	CAP FXD 4.7UF 20PCT 50V TA	91662 33297	TAJD475M050 ESVD1H475M
0180-4287	CAP FXD 10UF 20PCT 35V TA	91662 33297	TAJD106M035 ESVD1V106M
0180-4538	CAP FXD 100UF 20PCT 10V TA	91662 31433	TPSE107M010R0125 T495X107M010ASE100
0361-1257	RIVET,PLASTIC,UNIV HD,NYLON	1LQK8	0361-1257
0363-0255	CONTACT FINGER,9.4MM WD,3.3MM FREE HGT	1LQK8	0363-0255
0363-0257	CONTACT FINGER,15.24MM WD	1LQK8	0363-0257
0380-0643	STANDOFFLHEX,0.255 IN LG,6-32-THD	1LQK8	0380-0643
0380-2079	STANDOFFLHEX,0.312 IN LG,0.187 IN A/F,SST	1LQK8	0380-2079
0403-0026	PLUG HOLE BDR HD 0.19IN DIA HOLE NYL	78189	207-120241-03-0101
0403-0630	EXTR PC BD BRN NYL 0.062IN BD THKNS	KB732	91-2-9 BROWN
0515-2126	SCREW,MACHINE,M3X0.5,6MM LG,TORX T10 RECESS,PAN,STAINLESS STEEL,300 SERIES,PASSIVATED FINISH,CREST CUP CONICAL WASHER	1LQK8	0515-2126
0590-1332	THD INSR,NUT,M4X0.7,2.97MM LOA,SST	1LQK8	0590-1332
0590-1381	THD INSR,STDF,THRU HL,M4X0.7,8MM LG,SST	1LQK8	0590-1381
0590-1671	THREADED INSERT,STDF,M3X0.5,8MM LG	1LQK8	0590-1671
0590-1677	THREADED INSERT,STDF,M3X0.5,12MM LG	1LQK8	0590-1677
0590-1851	THREADED INSERT,STDF,KEY HL,8MM LG	1LQK8	0590-1851

**Table 2. Component Descriptions and Sources of Supply (Continued)**

<b>Agilent Part No.</b>	<b>Description and Physical Characteristics</b>	<b>MFR Code</b>	<b>MFR Part Number</b>
0699-1318	RESISTOR-FXD 1K OHM 1PCT 0.25W TKF TC 0 PORM 100 1206	59124	RK73H2BT1001F
0699-1320	RESISTOR 19.6K 1PCT 0.125W TKF TC 0 PORM 100	59124	RK73H2BT1962F
0699-1327	RESISTOR 1M 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW12061M00FKE
0699-1329	RESISTOR 6.19K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW12066K19FKE
0699-1330	RESISTOR 100K 1PCT 0.125W TKF TC 0 PORM 100	59124 91637 D0611	RK73H2BT1003F CRCW1206100KFKE CRCW1206100KFKE
0699-1332	RESISTOR 196K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW1206196KFKE
0699-1344	RESISTOR 10 1PCT 0.125W TKF TC 0 PORM 100	00007	MCR18EZHF10R0
0699-1356	RESISTOR 31.6 1PCT 0.25W TKF TC 0 PORM 100	65940	MCR18F31R6
0699-1370	RESISTOR 1.21K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW12061K21FK E
0699-1371	RESISTOR 1.33K 1PCT 0.125W TKF TC 0 PORM 100	59124	RK73H2BT1331F
0699-1372	RESISTOR 1.47K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW12061K47FKE
0699-1376	RESISTOR 2.15K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW12062K15FKE
0699-1377	RESISTOR 2.37K 1PCT 0.125W TKF TC 0 PORM 100	91637 S7293	CRCW12062K37FKE
0699-1380	RESISTOR 3.16K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW12063K16FKE
0699-1382	RESISTOR 3.83K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW12063K83FKE
0699-1383	RESISTOR 4.22K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW12064K22FKE
0699-1385	RES-FXD 5.11K 1PCT 0.125W TC 0 PORM 100	59124	RK73H2BT5111F
0699-1388	RES FXD 7.5K 1PCT 0.125W TKF TC 0 PORM 100	59124 65940 91637	RK73H2BT 7501F MCR18 F7501 CRCW12067K50FKE
0699-1389	RESISTOR 8.25K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW12068K25FKE
0699-1390	RESISTOR 9.09K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW12069K09FKE
0699-1391	RESISTOR 10K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW120610K0FKE
0699-1392	RESISTOR 11K 1PCT 0.125W TKF TC 0 PORM 100	65940	MCR18F1102
0699-1392	RESISTOR 11K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW120611K0FKE
0699-1394	RESISTOR 14.7K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW120614K7FKE
0699-1400	RESISTOR 26.1K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW120626K1FKE

**Table 2. Component Descriptions and Sources of Supply (Continued)**

<b>Agilent Part No.</b>	<b>Description and Physical Characteristics</b>	<b>MFR Code</b>	<b>MFR Part Number</b>
0699-1401	RESISTOR 28.7K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW120628K7FKE
0699-1403	RESISTOR 31.6K 1PCT 0.125W TKF TC 0 PORM 100	59124 91637	RK73H2BT3162F CRCW120631K6FKE
0699-1404	RES FXD 34.8K 1PCT 0.125W TKF TC 0 PORM 100	59124 65940 91637	RK73H2BT 3482F MCR18 F3482 CRCW120634K8FKE
0699-1406	RESISTOR 42.2K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW120642K2FKE
0699-1408	RESISTOR 51.1K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW120651K1FKE
0699-1409	RESISTOR 56.2K 1PCT 0.125W TKF TC 0 PORM 100	65940 91637	MCR18F5622 CRCW120656K2FKE
0699-1412	RESISTOR 75K 1PCT 0.125W TKF TC 0 PORM 100	59124	RK73H2BT7502F
0699-1413	RESISTOR 82.5K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW120682K5FKE
0699-1415	RESISTOR 100 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW1206100RFKE
0699-1423	RESISTOR 215 1PCT 0.125W TKF TC 0 PORM 100	59124	RK73H2BT2150F
0699-1425	RESISTOR 261 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW1206261RFKE
0699-1429	RESISTOR 383 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW1206383RFKE
0699-1432	RESISTOR 511 1PCT 0.125W TKF TC 0 PORM 100	00007	CRCW1206511RFKE
0699-1434	RES-FXD 619 OHM 1PCT 0.125W TC 0 PORM 100 1206	59124	RK73H2BT6190F
0699-1435	RES-FXD 681 OHM 1PCT 0.125W TC 0 PORM 100	00005	CRCW1206681RFKEA
0699-1437	RESISTOR 825 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW1206825RFKE
0699-1440	RESISTOR 121K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW1206121KFKE
0699-1443	RESISTOR 147K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW1206147KFKE
0699-1445	RESISTOR 215K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW1206215KFKE
0699-1447	RESISTOR 261K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW1206261KFKE
0699-1448	RESISTOR 316K 1PCT 0.125W TKF TC 0 PORM 100	59124	RK73H2BT3163F
0699-1456	RESISTOR 562K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW1206562KFKE
0699-1460	RESISTOR 825K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW1206825KFKE
0699-1462	RESISTOR 909K 1PCT 0.125W TKF TC 0 PORM 100	91637	CRCW1206909KFKE
0699-1503	RES FXD 0 OHM CWM	59124 65940 91637	RK73Z2BT 0000 MCR18 J000 CRCW12060000ZSE

**Table 2. Component Descriptions and Sources of Supply (Continued)**

<b>Agilent Part No.</b>	<b>Description and Physical Characteristics</b>	<b>MFR Code</b>	<b>MFR Part Number</b>
0699-1785	RESISTOR 13.3K 1PCT 0.125W TKF TC 0 PORM 100	65940	MCR18F1332
0699-1996	RESISTOR 4.7K 5PCT 0.125W TKF TC 0 PORM 200	S7293	2322711X14702
0699-2151	RESISTOR 220K 5PCT 0.125W TKF TC 0 PORM 200	65940	MCR1J224
0699-2484	RES-FXD 50K 0.1PCT 0.125W TF TC 0 PORM 25	59124	RN732BT5002B25
0699-2489	RESISTOR 10K 0.1PCT 0.125W TF TC 0 PORM 25	59124	RN732BT1002B25
0699-2491	RESISTOR 20K 0.1PCT 0.125W TF TC 0 PORM 25	F7178	PCF-W1206LF-03-2002-B
0699-2776	RESISTOR-FXD 1 OHM 5PCT 0.25W TC 0 PORM 250 3216	65940	MCR18J1R0
0699-2825	RESISTOR 6K 0.1PCT 0.125W TF TC 0 PORM 25	F7178 91637	PCF-W1206LF-03-6001-B PTN1206E6001BB
0699-2829	RES FXD 50 0.1PCT 0.125W TC 0 PORM 25	59124 56637  F7178 91637 56699	RN732BT-50R0B25 BLU-1206 50R 0.1% 25PPM PCF-W1206LF-03-50R0B PTN1206E50R0BB MCA1206-25 0.1%-P5- 50R
0699-2843	RESISTOR 100K 0.1PCT 0.125W TF TC 0 PORM 5	59124	RN732BT_1003B25
0699-2846	RES FXD 5K 0.1PCT 0.125W TF TC 0 PORM 25	59124 56637  F7178 91637 56699 S7293	RN732BT-5001B25 BLU-1206 5K 0.1% 25PPM PCF-W1206LF-03-5001B TNPW12065001BT9 MCA1206-25 0.1%-P5-5K 2322741X5002
0699-2847	RES FXD 2K 0.1PCT 0.125W TF TC 0 PORM 25	59124 56637  F7178 91637	RN732BT-2001B25 BLU-1206 2K 0.1% 25PPM PCF-W1206LF-03-2001B TNPW12062001BT9
0699-3368	RES FXD 56.2K 1PCT 0.063W TKF TC 0 PORM 200	59124 65940 91637	RK73H1JT 5622F MCR03 FX5622 CRCW060356K2FKE
0699-3921	RES FXD 75 1PCT 0.063W TC 0 PORM 200	59124 65940 91637 S7293	RK73H1JT 75R0F MCR03 FX75R0 CRCW060375R0FKE 232270467509L
0699-3937	RES FXD 348 1PCT 0.063W TKF TC 0 PORM 200	59124 65940 91637	RK73H1JT 3480F MCR03 FX3480 CRCW0603348RFKE

**Table 2. Component Descriptions and Sources of Supply (Continued)**

<b>Agilent Part No.</b>	<b>Description and Physical Characteristics</b>	<b>MFR Code</b>	<b>MFR Part Number</b>
0699-3947	RES FXD 1K 1PCT 0.063W TKF TC 0 PORM 200	SL343 59124 56637 65940 91637 S7293	CR16-1001-FL RK73H1JT 1001F MC06031001-FT MCR03 FX1001 CRCW06031K00FKE 23227041002L
0699-3954	RES FXD 1.96K 1PCT 0.063W TKF TC 0 PORM 200	59124 65940 91637 S7293	RK73H1JT 1961F MCR03 FX1961 CRCW06031K96FKE 232270461962L
0699-3955	RES FXD 2.15K 1PCT 0.063W TKF TC 0 PORM 200	59124 65940 91637	RK73H1JT 2151F MCR03 FX2151 CRCW06032K15FKE
0699-3956	RES FXD 2.37K 1PCT 0.063W TKF TC 0 PORM 200	59124 65940 91637	RK73H1JT 2371F MCR03 FX2371 CRCW06032K37FKE
0699-3967	RES FXD 7.5K 1PCT 0.063W TKF TC 0 PORM 200	59124 65940 91637 S7293	RK73H1JT 7501F MCR03 FX7501 CRCW06037K50FKE 232270467502L
0699-3970	RES FXD 10K 1PCT 0.063W TKF TC PORM 200	59124 65940 91637 S7293	RK73H1JT 1002F MCR03 FX1002 CRCW060310K0FKE 232270461003L
0699-3993	RES FXD 100K 1PCT 0.063W TKF TC 0 PORM 200	59124 65940 91637 S7293	RK73H1JT 1003F MCR03 FX1003 CRCW0603100KFKE 232270461004L
0811-3837	RESISTOR .5 1PCT 1W PWI TC 0 PORM 100	91637	WSC-1 R5 1%
0811-3858	RESISTOR -FXD 21.5 OHM 1PCT 1W PI TC 0 PORM 50 2515	91637	WSC-1 21R5 1%
0950-2649	PWR SPLY,40W,3 OUTPUTS	1LQK8	0950-2649
1250-1425	CONNECTOR-RF SMC MALE SGL-HOLE-RR 50-OHM	D2528	39S210-400H3Q
1251-6427	CONN POST TYPE 0.100 PIN SPCG MTG END	27264 00779	22-23-2021 640456-2
1251-7906	CONN-POST TYPE 0.100-PIN-SPCG-MTG-END	00779	5-534204-3
1251-7986	CONN-POST TYPE 0.100-PIN-SPCG-MTG-END	00779	5-534204-1
1252-0064	CONN-POST TYPE 0.100-PIN-SPCG-MTG-END	00779	2-86479-9
1252-0238	CONN-POST TYPE 2.54-PIN-SPCG-MTG-END	S7506	20-8457-048-002-025
1252-2152	CONN-POST TYPE 0.100-PIN-SPCG-MTG-END	027H5	69167-103LF
1252-2161	CONN RECT MICRORBN 24 CKT 24 CONT	00779	5554923-2
1252-6672	CONN-RECT D-SUBMIN 9-CKT 9-CONT	00779	5788792-1
1252-7463	CONN-POST TYPE 1-PIN-SPCG-MTG-END 9-CONT	S7506	00-6200-097-052-800
1252-7557	CONN-POST TYPE .156-PIN-SPCG-MTG-END	27264	26-62-4064
1252-8367	CONN-POST TYPE 1-PIN-SPCG-MTG-END	27264	52030-1529



**Table 2. Component Descriptions and Sources of Supply (Continued)**

Agilent Part No.	Description and Physical Characteristics	MFR Code	MFR Part Number
1252-8369	CONN-POST TYPE 1-PIN-SPCG-MTG-END	27264	52030-2529
1252-8989	CONNECTOR 8-PIN MODULAR	00779	5558342-1
1253-6312	CONN-HDR VERT 2-PINS 2.54MM 1-ROW	55322	TSM-102-01-S-SV
1258-0209	JUMPER REMOVABLE 2 POSITION 0.250 IN	027H5 00779	68786-202LF 382811-6
1401-0247	CAP,PROT,STR FLG,0.612IN ID,0.653IN OD,BLK	1LQK8	1401-0247
1401-0255	PLUG,PROT,STR,BLK	1LQK8	1401-0255
1420-0338	BATTERY 3V 1.2A-HR LITHIUM POLYCARBON	54473	BR2/3AE2P
1420-0338	BATTERY,3V,1.2A HR,LITHIUM POLYCARBON	1LQK8	1420-0338
1810-1064	NETWORK RES 15 10.0K OHM 16-PIN	91637	SOMC-16-01-103G
1810-1066	NETWORK RES 8 33.0 OHM 16-PIN	91637	SOMC160333R0GE
1810-1093	NETWORK RES 8 470.0 OHM 16-PIN	32997	4816P-1-471LF
1810-1128	NETWORK RES 15 4.7K OHM 16-PIN	91637	SOMC16-01-472G
1810-1139	NETWORK RES 8 10.0K OHM 16-PIN	F7178	GM8A-03-1002-D-B
1810-1230	NETWORK RES 8 4.7K OHM 16-PIN	32997	4816P-1-472LF
1810-1231	NETWORK RES 8 100 OHM 16-PIN	32997	4816P-001-101
1813-1031	CRYSTAL OSC 16.666MHZ 0.01pct	00003	Q33615011026600
1818-5231	IC 1M-BIT SRAM 45-NS CMOS	65786	CY62128ELL-45SXI
1820-4966	IC FF CMOS/HC D-TYPE POS-EDGE-TRIG	01295	SN74HC74D
1820-5709	IC SCHMITT-TRIG CMOS/HC INV HEX 14-SO	01295	SN74HC14D
1820-5937	IC FF CMOS/AC D-TYPE POS-EDGE-TRIG	07263	74AC74SCX-NL
1820-6175	IC INTERFACE XCVR BIPOLAR BUS OCTL	01295	SN75ALS162DW
1820-6176	IC INTERFACE XCVR BIPOLAR BUS OCTL	01295	SN75ALS160DW
1820-7281	IC TRANSCEIVER CMOS/ACL BUS OCTL	01295	74ACT11245DW
1820-7332	IC DRVR TTL/F INV HEX 14-SOIC	H1V34	N74F07D
1820-8728	IC GATE CMOS/ACT NOR QUAD 2-INP	1MQ07	MC74ACT02DR2G
1821-0055	IC SCHMITT-TRIG CMOS/ACT NAND QUAD 2-INP	1MQ07	MC74ACT132DG
1821-0078	IC 32-BIT CPU W/2K RAM,TPU,QSM	04713	MC68332ACEH16
1821-0403	IC DRVR BICMOS/ABT LINE OCTL	01295	SN74ABT240ADWR
1821-1494	IC SW CMOS DUAL 4-BIT	01295	SN74CBT3244DB
1821-1672	IC PLD FPGA-SRAM UNPRGMD CMOS 3042 100-PQFP	68994	XC3042A-7PQ100C
1821-4401	IC INTERFACE XCVR RS-232	0ERJ5	SP334CT
1821-4621	IC INTERFACE XCVR CMOS	27014	PC16550DV/NOPB
1822-0639	IC HPIB CONTROLLER	00001	14063-501
1822-1416	IC 16-BIT DSP CMOS 25MHZ 68-PLCC	24355	ADSP-2101BPZ-100
1826-1225	IC COMPARATOR LP QUAD 14 PIN PLSTC-SOIC	27014	LP339M-NOPB
1826-1572	IC COMPARATOR PRCN DUAL 8 PIN PLSTC SOIC	1MQ07 01295	LM393DR2G LM393D
1826-1594	IC COMPARATOR GP SINGLE 8 PIN PLSTC-SOIC	01295	LM311DR
1826-1619	D/A 8-BIT 20-PLCC CMOS	24355	AD7528JPZ
1826-1622	IC OP AMP LOW BIAS H IMPD QUAD 14 PIN	01295	TL074CD

**Table 2. Component Descriptions and Sources of Supply (Continued)**

<b>Agilent Part No.</b>	<b>Description and Physical Characteristics</b>	<b>MFR Code</b>	<b>MFR Part Number</b>
1826-1848	IC PWR MGT-V-REF-FXD 2.475/2.525V 8 PINS	1MQ07	MC1403DG
1826-1862	IC OP AMP LOW BIAS H IMPD DUAL SOIC8	66958 01295	TL072CD TL072CD
1826-1872	IC PWR MGT-V-REG-ADJ-POS 4.975/5.025V 8	27014	LP2951ACM/NOPB
1826-1925	IC OP AMP LOW NOISE SINGLE 8 PIN	24355 01295	OP27GSZ OPA27GU/E4
1826-2147	ANALOG MULTIPLEXER 8 CHNL 16 -P-SOIC	D0611	DG408DY-E3
1826-2218	IC OP AMP LOW OFS DUAL 8 PIN PLSTC SOIC	01295	LF412CD
1826-2230	IC OP AMP LOW-OFS QUAD 16 PIN PLSTC-SOIC	24355	OP400GSZ
1826-2656	IC PWR MGT V REF FXD 6.95/7.05V 8 PINS	64155	LT1021DCS8-7 PBF
1826-2850	IC PWR MGT-VS-SUPVR/CONT 8 PINS P-SOIC	1ES66	MAX703CSA+
1826-3127	D/A 12-BIT 24-P-SOIC CMOS	24355	AD8582AR
1826-3161	IC OP AMP LP 8 PIN PLSTC-SOIC	24355	AD820ARZ
1826-3162	IC OP AMP PRCN LOW POWER DUAL SOIC8	24355	AD822ARZ
1826-3172	A/D 16-BIT 28-P-SOIC BPLR	24355	AD1877JRZ
1826-3349	IC PWR MGT-DC-DC-CONV 8 PINS P-SOIC PKG	64155	LT1111CS8
1827-1821	ANALOG SWITCH 4 SPST 16 -P-SOIC	24355	ADG411BRZ
1853-0567	TRANSISTOR PNP SI SOT23 (TO236AB)	07263 1MQ07 65940	MMBT3906 MMBT3906LT1G SST3906T116
1854-1037	TRANSISTOR NPN SI TO236AA PD 350MW	07263 1MQ07 65940	MMBT3904 MMBT3904LT1G SST3904T116
1854-1712	TRANSISTOR NPN SI SOT23 (TO236AB)	H1V34 59821	BFS17A BFS17A
1855-0734	TRANSISTOR MOSFET 2N7002 N CHAN E MODE	07263 C6489 H1V34 59821 D0611	2N7002 SN7002NX 2N7002 2N7002 2N7002-T1-E3
1855-0800	TRANSISTOR MOSFET N-CHAN E-MODE SI TO-252AA	1MQ07	NTD3055L104G
1855-0801	TRANSISTOR MOSFET P-CHAN E-MODE TO-252AA	1MQ07	NTD2955G
1855-0936	TRANSISTOR MOSFET P CHAN E MODE SI SO8	D0611	SI9433BDYE3
1855-0939	TRANSISTOR MOSFET N-CHAN E-MODE SI DPAK	1MQ07	NTD20N03L274G
1900-0245	DIODE SCHOTTKY 70V SOT143	50434	HSMS-2805-TR1G
1901-1227	DIODE-SWITCHING 75V 200MA 6NS TO-236	1MQ07 D0611	BAS16LT1G BAS16
1901-1332	DIODE PWR S 40V 1A DO214AA	59993 14552 1MQ07 66958 D0611	10BQ040PBF SK14 MBRS140T3G STPS140U SS24

**Table 2. Component Descriptions and Sources of Supply (Continued)**

<b>Agilent Part No.</b>	<b>Description and Physical Characteristics</b>	<b>MFR Code</b>	<b>MFR Part Number</b>
1901-1459	DIODE PWR S 40V 500MA SOD123	07263 1MQ07	MBR0540 MBR0540 G
1901-1615	DIODE-V-SUPPR	14099	LCDA15
1901-1616	DIODE-V-SUPPR	14099	SMDA05
1902-0947	DIODE-ZNR 3.6V 5PCT DO-35 PD .5W	00006	1N5227B
1906-0437	DIODE-ARRAY 15V MS-013AC	07263	74F1071SCX
1990-1913	LCD DSPLY MODULE	1LQK8	1990-1913
2100-3091	RESISTOR-TRMR 2K 10PCT TKF TOP-ADJ 17-TRN	32997	3296W-DM3-202
2110-0957	FUSE,3.15A,250V,NTD FE UL REC	1LQK8	2110-0957
3050-0300	WASHER,FL,NM,NO. 4,0.125IN ID,0.25IN OD	1LQK8	3050-0300
34401-45011	HANDLE,FRONT	1LQK8	34401-45011
34401-86011	BUMPER,FRONT	1LQK8	34401-86011
34401-86012	BUMPER,REAR	1LQK8	34401-86012
6960-0024	PLUG,HOLE,TR-HD,0.688 DIA HOLE,NYL	1LQK8	6960-0024
6960-0081	PLUG,HOLE,TR HD,0.375 DIA HOLE,NYL	1LQK8	6960-0081
6960-0178	PLUG,HOLE,CONVEX HD,NYL	1LQK8	6960-0178
7100-1316	CAN - SQUARE	1LQK8	7100-1316
8160-0923	RFI STRIP,FINGERS,BE-CU,ZNCCMT PL	1LQK8	8160-0923
82-47-113-20	SOUTHCO CONNECTOR	1LQK8	82-47-113-20
9100-3922	INDUCTOR FIXED Z GREATER THAN 1200 OHMS 120 TO 650	24226	51-088
9140-1109	INDUCTOR 4.7UH 5PCT 3.4MM W X 4.8MM LG	24226	SMRF1812-471J
9140-1113	INDUCTOR 10UH 5PCT 3.4MM W X 4.8MM LG Q=50	24226	SMRF1812-102J
9140-1121	INDUCTOR FXD 100UH 5PCT 3.4MM W X 4.8MM LG	24226	SMRF1812-103J
9140-1237	INDUCTOR FXD 4.7UH 5PCT 2.8MM W X 3.4MM LG	59124 7J069	KL32T4R7J NLV32T-4R7J-PF
9140-1354	INDUCTOR 47UH 15PCT 0.46D IN DIA X 0.9IN LG	D0611	IHD-3-01 47 UH 15%
9140-1564	INDUCTOR FXD 39NH 5PCT 2.8MM W X 3.4MM LG	24226	SM3-039J-1
9140-2026	INDUCTOR 50.63UH 20PCT	1Y0K8	CTX50-1P-R
9140-2170	INDUCTOR 330UH 5PCT 2.7MM W X 3.4MM LG	59124	KL32T331J
9170-1421	CORE SHIELDING BEAD IMAX 1500MA	83285	MI1210K600R-10
E4416-61005	DECK ASSY	1LQK8	E4416-61005
E4418-00003	PWR SUPPLY COVER	1LQK8	E4418-00003
E4418-00006	SCREEN,FRONT,EMI	1LQK8	E4418-00006
E4418-00011	FOAM GASKET	1LQK8	E4418-00011
E4418-00013	CALIBRATION SCRNM	1LQK8	E4418-00013
E4418-00014	BLANKING PLATE	1LQK8	E4418-00014
E4418-00016	LOCK WASHER	1LQK8	E4418-00016
E4418-00017	LOWER CAL SCREEN	1LQK8	E4418-00017
E4418-00033	OVERLAY,REAR PANEL	1LQK8	E4418-00033
E4418-00035	FRONT PANEL OVERLAY	1LQK8	E4418-00035

**Table 2. Component Descriptions and Sources of Supply (Continued)**

<b>Agilent Part No.</b>	<b>Description and Physical Characteristics</b>	<b>MFR Code</b>	<b>MFR Part Number</b>
E4418-00044	RING,RETAINING,CIR,EXT,18 MM DIA	1LQK8	E4418-00044
E4418-00045	WASHER,LOCK,WAVY,18.01 MM ID,22.5 MM OD	1LQK8	E4418-00045
E4418-20006	WINDOW,EMI SHLD	1LQK8	E4418-20006
E4418-20007	FLEX CIRCUIT	1LQK8	E4418-20007
E4418-20008	BEZEL,REAR	1LQK8	E4418-20008
E4418-20009	ADAPTER,RF N,SM A	1LQK8	E4418-20009
E4418-40001	FRONT BEZEL	1LQK8	E4418-40001
E4418-40002	KEYPAD,PUSHBUTTON	1LQK8	E4418-40002
E4418-40003	BRKT,PCA SUPPORT	1LQK8	E4418-40003
E4418-60003	MEASUREMENT CCA ASSY (ORDER E4418-60007 FOR REPLACEMENT)	1LQK8	E4418-60003
E4418-60012	INTERFACE CCA ASSY	1LQK8	E4418-60012
E4418-60015	DAUGHTER CCA ASSY	1LQK8	E4418-60015
E4418-60028	PROCESSOR CCA ASSY	1LQK8	E4418-60028
E4418-61001	FRONT PANEL ASSY	1LQK8	E4418-61001
E4418-61002	MAINS FILTER ASSY	1LQK8	E4418-61002
E4418-61004	FAN CABLE ASSY	1LQK8	E4418-61004
E4418-61005	POWER CABLE ASSY	1LQK8	E4418-61005
E4418-61009	SENSOR CABLE ASSY	1LQK8	E4418-61009
E4418-61011	CABLE SR, PWR REF	1LQK8	E4418-61011
E4418-61015	CABLE ASSY,BNC	1LQK8	E4418-61015
E4418-61027	TOP COVER ASSY	1LQK8	E4418-61027
E4418-61030	FRONT PANEL ASSY	1LQK8	E4418-61030
E4418-61032	CHASSIS ASSY	1LQK8	E4418-61032
E4418-80019	IC 4M-BIT FLASH 70-NS CMOS PROM	1LQK8	E4418-80019
E4418-80020	IC 4M-BIT FLASH 70-NS CMOS PROM	1LQK8	E4418-80020
E4418-80022	IC PLD EPLD CMOS 7032 PROGRAMMED PART	1LQK8	E4418-80022
E4418-80023	IC 512K-BIT FLASH 150-NS CMOS PROGRAMMED PART	1LQK8	E4418-80023
E4418B	POWER METER	1LQK8	E4418B

Power Meter E4418B Replaceable Parts



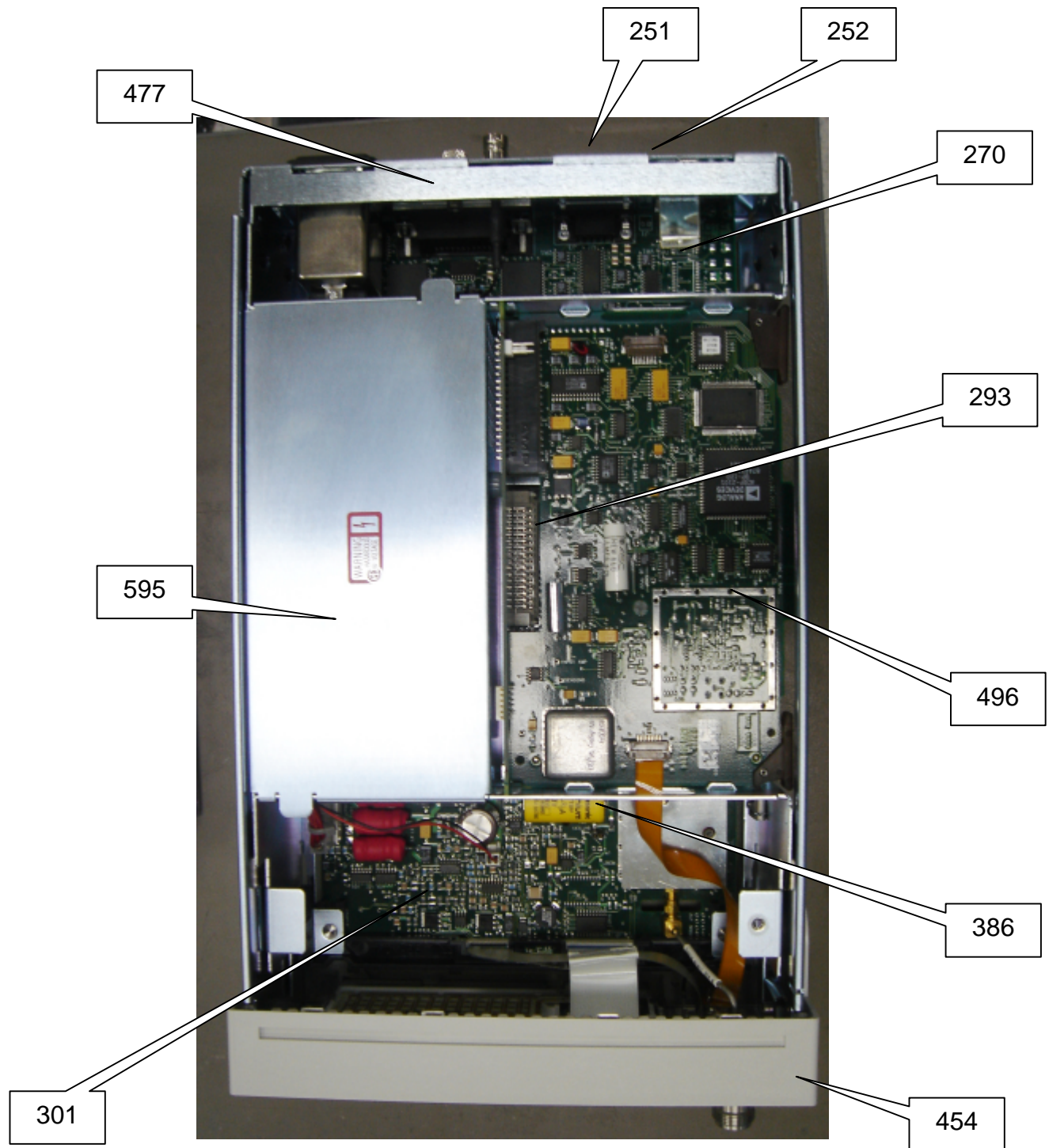
E4418B POWER METER



POWER METER REAR PANEL

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Power Meter E4418B Replaceable Parts (Continued)



POWER METER TOP VIEW  
(COVER REMOVED)

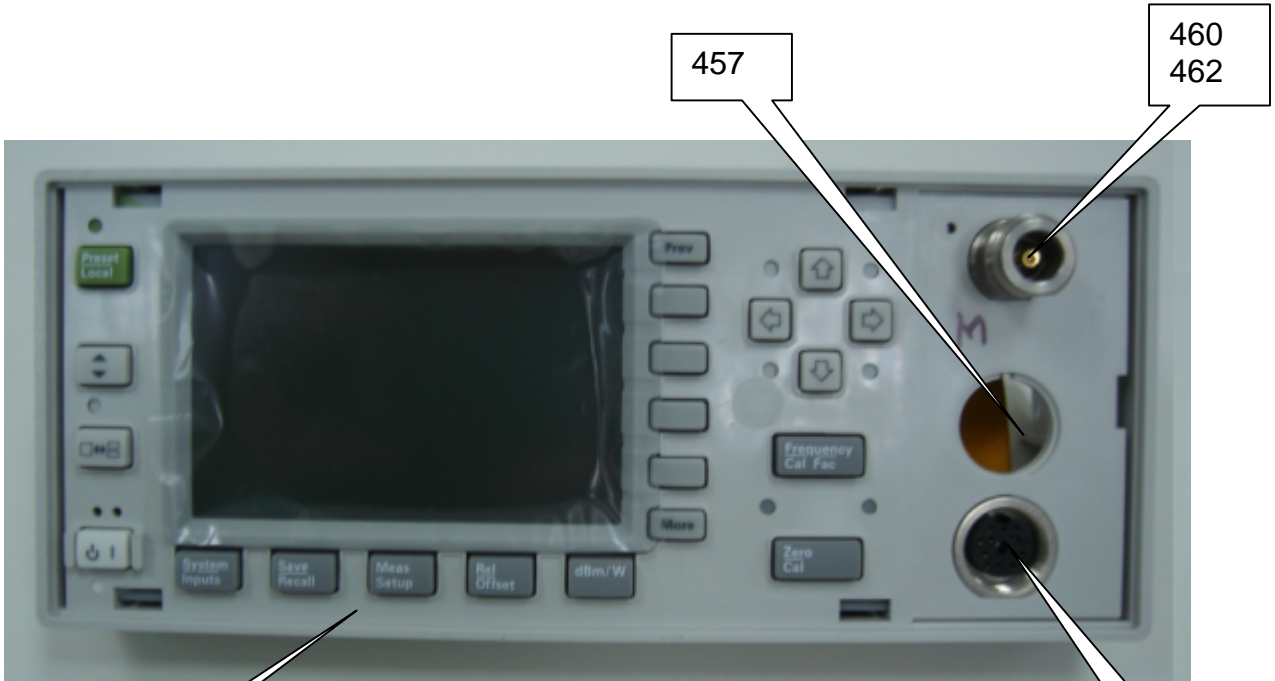
Power Meter E4418B Replaceable Parts (Continued)

BOM SEQ	REF DES	PART NO	DESCRIPTION
REF		E4418B	POWER METER
251		0380-0643	STANDOFFLHEX,0.255 IN LG,6-32-THD
252		0380-2079	STANDOFFLHEX,0.312 IN LG,0.187 IN A/F,SST
256		1401-0255	PLUG,PROT,STR,BLK (REMOVED FROM CONNECTOR)
260	MP1	34401-45011	HANDLE,FRONT
262	MP2	34401-86011	BUMPER,FRONT
263	MP3	34401-86012	BUMPER,REAR
265	MP5	E4418-20008	BEZEL,REAR
270	A4	E4418-60012	INTERFACE CCA ASSY (SEE SEPARATE BKDN.)
293	A5	E4418-60015	DAUGHTER CCA ASSY
301		E4418-60028	PROCESSOR CCA ASSY (SEE SEPARATE BKDN.)
386	BT1	1420-0338	BATTERY,3V,1.2A HR,LITHIUM POLYCARBON
442		2110-0957	FUSE (METRIC),3.15A,250V,NTD FE UL REC
454	A301	E4418-61030	FRONT PANEL ASSY (SEE SEPARATE BKDN.)
477		E4418-61032	CHASSIS ASSY (SEE SEPARATE BKDN.)
496	A6	E4418-60003	MEASUREMENT (AVERAGE) CCA ASSY (ORDER E4418-60007 FOR REPLACEMENT) (SEE SEPARATE BKDN.)
590		1401-0247	CAP,PROT,STR FLG,0.612IN ID,0.653IN OD,BLK (REMOVED FROM CONNECTOR)
592	MP4	E4418-61027	TOP COVER ASSY
595		E4416-61005	DECK ASSY (SEE SEPARATE BKDN.)

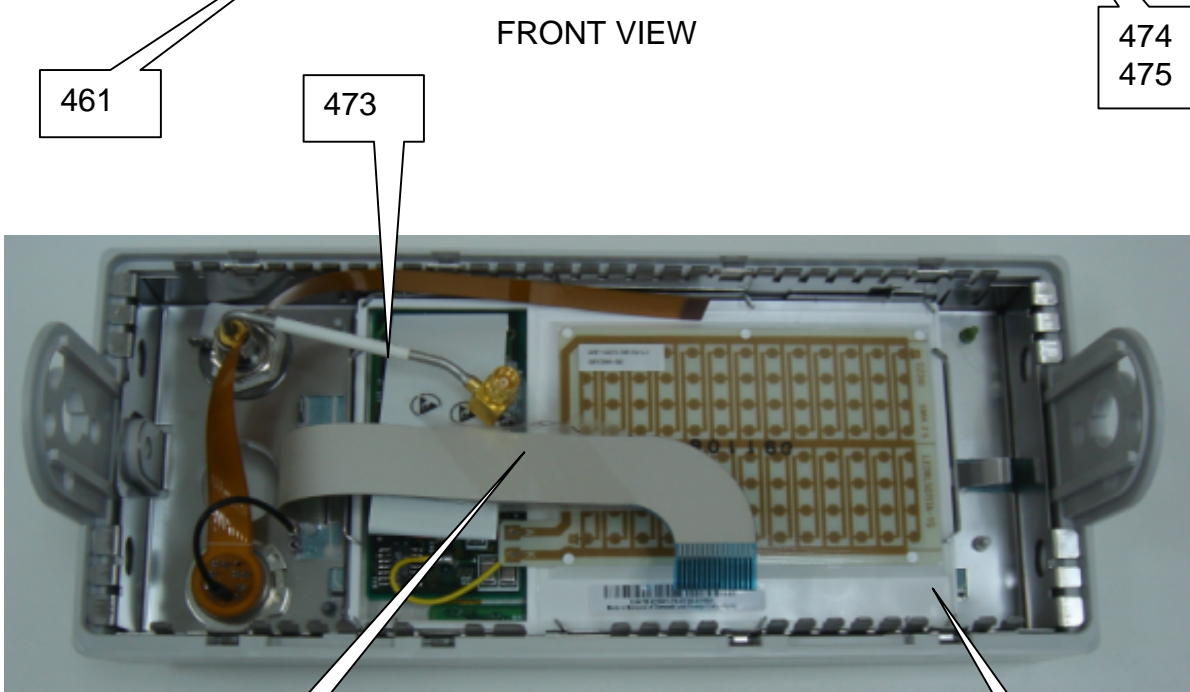




Front Panel Assembly E4418-61030 Replaceable Parts (Continued)



FRONT VIEW



BACK VIEW

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**Front Panel Assembly E4418-61030 Replaceable Parts (Continued)**

FIND NO.	REF DES	PART NO.	DESCRIPTION
REF	A301	E4418-61030	FRONT PANEL
457		E4418-00014	BLANKING PLATE
460		E4418-00016	LOCK WASHER
461		E4418-00035	FRONT PANEL OVERLAY
462		E4418-20009	ADAPTER,RF N,SM A
463		E4418-61001	FRONT PANEL ASSY
471		E4418-61009	SENSOR CABLE ASSY
473		E4418-61011	CABLE SR, PWR REF
474		E4418-00044	RING,RETAINING,CIR,EXT,18 MM DIA
475		E4418-00045	WASHER,LOCK,WAVY,18.01 MM ID,22.5 MM OD

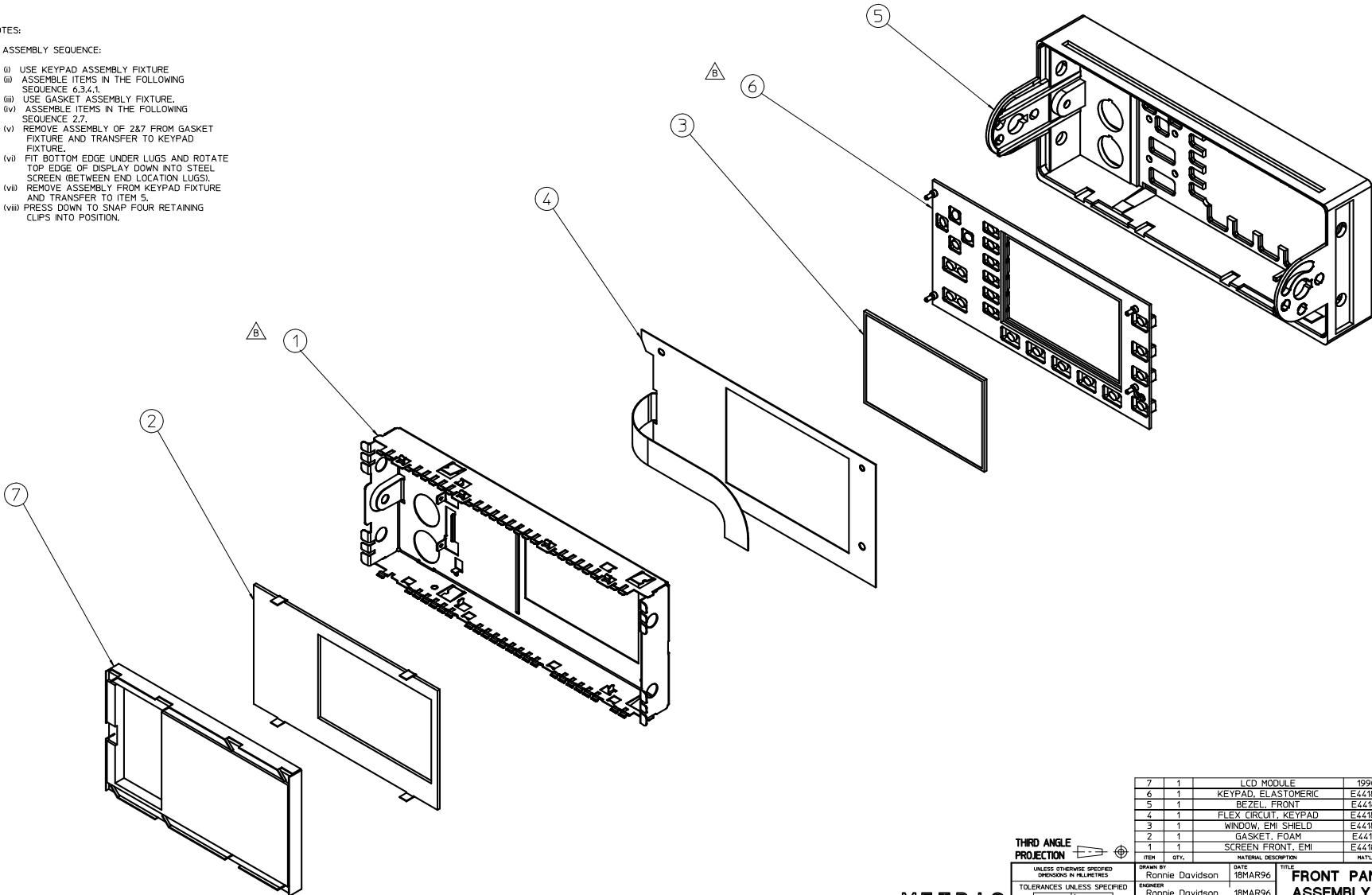
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		<b>HP MEQAD</b>		D-E4418-61001-1	
ER	REV	CHANGE DESCRIPTION	APPROVED	DATE	
6600	A	AS ISSUED	RONNIED	18MAR96	
	B	NPCN-1218	RONNIED	24JUN96	

**NOTES:**

**1 ASSEMBLY SEQUENCE:**

- (i) USE KEYPAD ASSEMBLY FIXTURE
- (ii) ASSEMBLE ITEMS IN THE FOLLOWING SEQUENCE 6,3,4,1.
- (iii) USE GASKET ASSEMBLY FIXTURE.
- (iv) ASSEMBLE ITEMS IN THE FOLLOWING SEQUENCE 2,7.
- (v) REMOVE ASSEMBLY OF 2&7 FROM GASKET FIXTURE AND TRANSFER TO KEYPAD FIXTURE.
- (vi) FIT BOTTOM EDGE UNDER LUGS AND ROTATE TOP EDGE OF DISPLAY DOWN INTO STEEL SCREEN (BETWEEN END LOCATION LUGS).
- (vii) REMOVE ASSEMBLY FROM KEYPAD FIXTURE AND TRANSFER TO ITEM 5.
- (viii) PRESS DOWN TO SNAP FOUR RETAINING CLIPS INTO POSITION.



ITEM	QTY.	MATERIAL DESCRIPTION	MATL. PART NO.	MATL. DWG. NO.	MATL. SPEC.
7	1	LCD MODULE	1990-1913	-	-
6	1	KEYPAD, ELASTOMERIC	E4418-40002	-	-
5	1	BEZEL, FRONT	E4418-40001	-	-
4	1	FLEX CIRCUIT, KEYPAD	E4418-20007	-	-
3	1	WINDOW, EMI SHIELD	E4418-20006	-	-
2	1	GASKET, FOAM	E4418-00011	-	-
1	1	SCREEN FRONT, EMI	E4418-00006	-	-

**THIRD ANGLE PROJECTION**

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETERS	DRAWN BY Ronnie Davidson	DATE 18MAR96	TITLE <b>FRONT PANEL ASSEMBLY</b>
TOLERANCES UNLESS SPECIFIED	ENGINEER Ronnie Davidson	18MAR96	PART NUMBER E4418-61001
XXX ± .1			
XX ± .05			
ANGULAR ± .5			

SUPERSEDES DWG.	-	SCALE	FULL	SHEET	1 - 1	D-E4418-61001-1
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**METRIC**  
 ADHERENCE TO DWG A-5951-1561-1 (CO.STD.SECTION 608) REQUIRED  
 DO NOT SCALE THIS DRAWING

b_	a_
b_	a_
MEMO BODY NAME	MEMO ASSEMBLY NAME



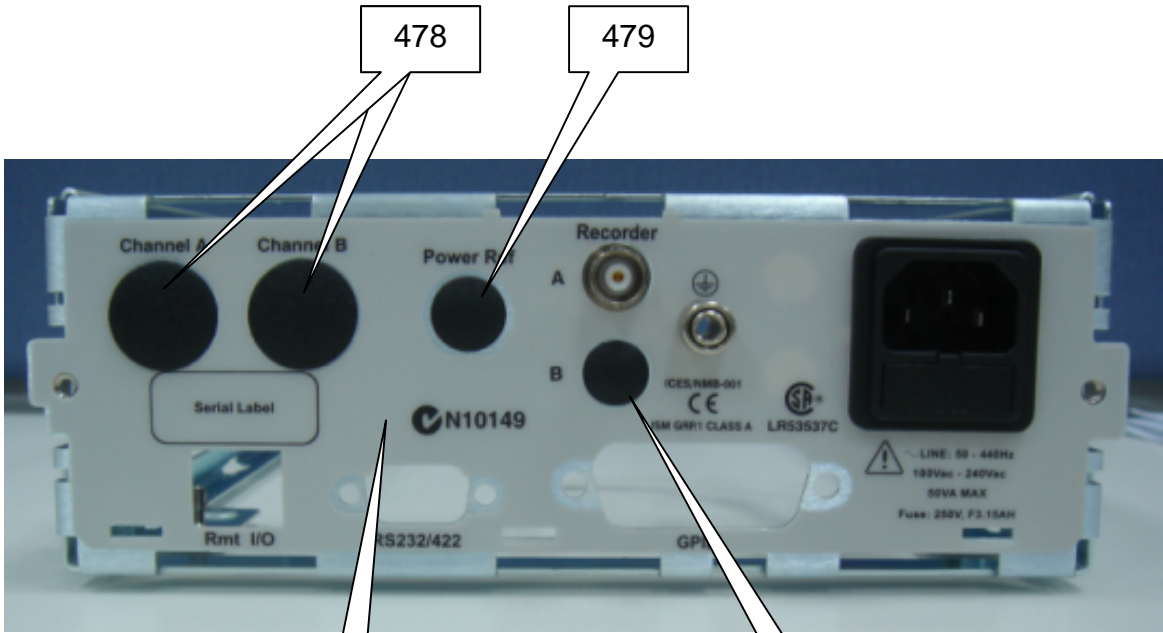
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**Front Panel Assembly E4418-61001 Replaceable Parts**

BOM REF	FIND NO.	PART NO.	DESCRIPTION
463	REF	E4418-61001	FRONT PANEL ASSY
465	1	E4418-00006	SCREEN,FRONT,EMI
466	2	E4418-00011	FOAM GASKET
467	3	E4418-20006	WINDOW,EMI SHLD
468	4	E4418-20007	FLEX CIRCUIT
469	5	E4418-40001	FRONT BEZEL
470	6	E4418-40002	KEYPAD,PUSHBUTTON
464	7	1990-1913	LCD DSPLY MODULE



**Chassis Assembly E4418-61032 Replaceable Parts**

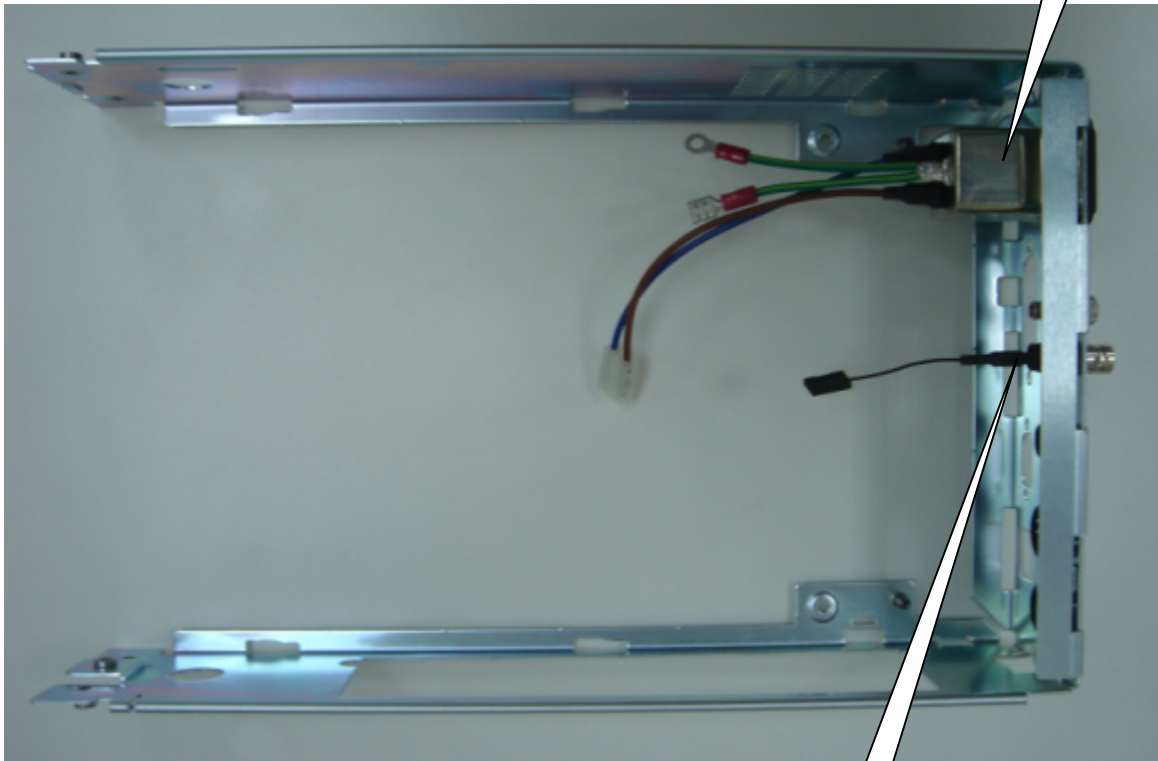


BACK VIEW

483

480

484



TOP VIEW

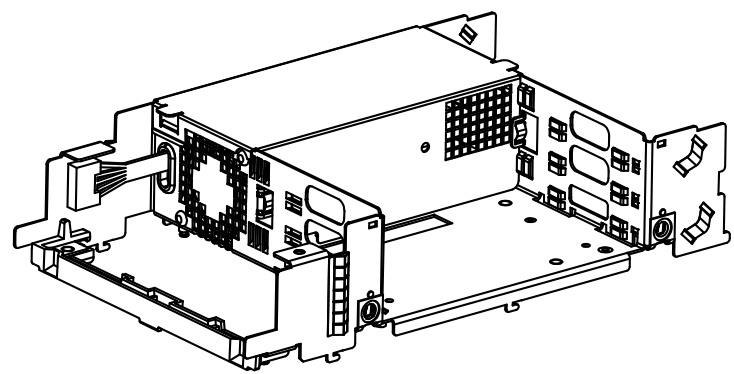
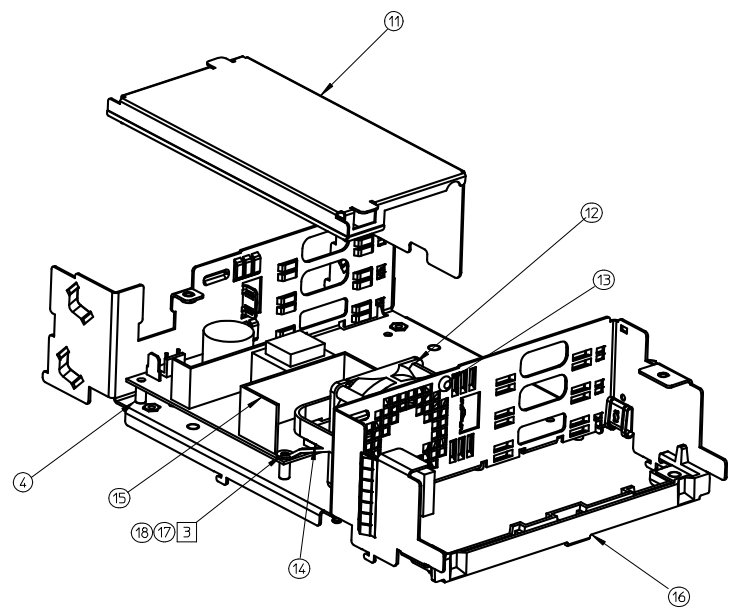
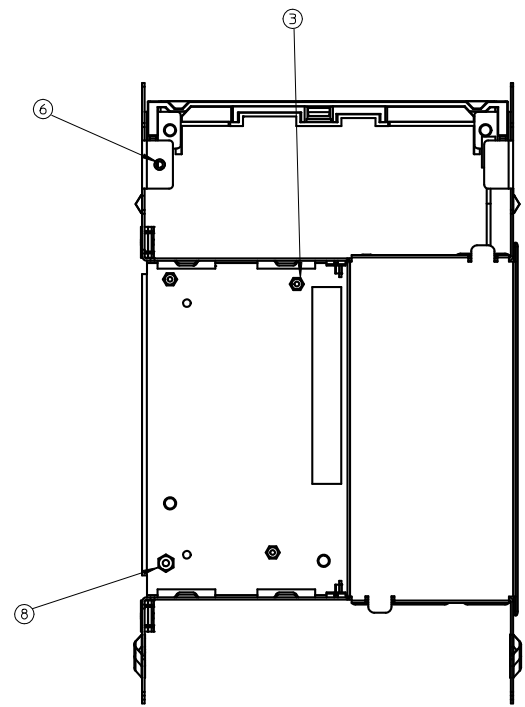
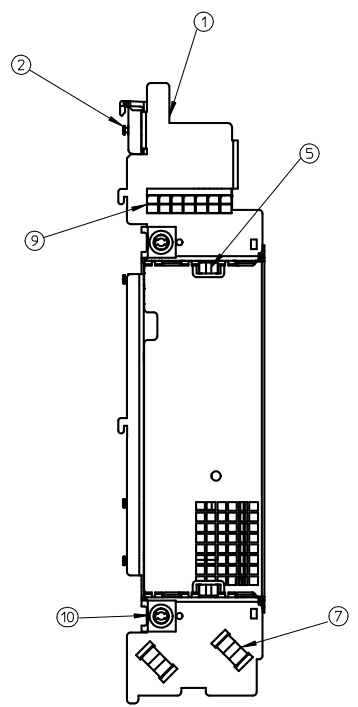
486

**Chassis Assembly E4418-61032 Replaceable Parts (Continued)**

FIND NO.	REF DES	PART NO.	DESCRIPTION
REF		E4418-61032	CHASSIS ASSY
478		6960-0024	PLUG,HOLE,TR-HD,0.688 DIA HOLE,NYL
479		6960-0081	PLUG,HOLE,TR HD,0.375 DIA HOLE,NYL
480		6960-0178	PLUG,HOLE,CONVEX HD,NYL
483		E4418-00033	OVERLAY,REAR PANEL
484	MP6J1	E4418-61002	MAINS FILTER ASSY
486	W3	E4418-61015	CABLE ASSY,BNC



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- 4. SECURE ITEM 14 TO ITEM 1 USING ITEMS 17 AND 18.
- 3. SECURE GROUND LUG FROM ITEM 14 TO THIS POINT USING ITEMS 17 AND 18, TORQUE TO 9 ID-FPS.
- 2. COSMETIC REQUIREMENTS AS PER A-5951-1511-1 (SECTION 741.1000) CLASS III.
- 1. THREADED FASTENERS FITTED AS PER A-5951-1570-1 (SECTION 741.060A), RIVET AS PER A-5951-1571-1 (SECTION 741.060B).

NOTES: (UNLESS OTHERWISE SPECIFIED)

0950-2649

QTY	DESCRIPTION	MATERIAL	UNIT	DATE	BY
4	WSHR-FL NM	3050-0300			
4	SCREW M3 X 6	0515-2126			
1	BRACKET, PCB SUPPORT	E4448-60003			
1	PSU	0950-2649			
1	CABLE ASSEMBLY	E4448-61005			
2	RIVET, SHOULDER SNAP	0361-1257			
1	FAN ASSEMBLY	E4448-61004			
1	PSU COVER	E4448-00003			
2	M3 B2 RECEPTACLE	SOLITICO	82-47-113-20		
2	GASKET, 7 FINER, ADHESIVE BKK	8160-09223			
2	STANDOFF M6 X 8	0590-1981			
4	GASKET (O.DY 0.024 EAI)	0363-0257			
2	NUT, PRESS M4	0590-1332			
2	GASKET (O.DY 0.016 EAI)	0363-0255			
4	STANDOFF, GROUNDING M3 X 12	0590-1677			
3	STANDOFF, GROUNDING M3 X 8	0590-1671			
2	STANDOFF, KEYHOLE	0590-1851			
1	DECK	E4448-00034			

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETRES	TOLERANCES UNLESS SPECIFIED
HOLE TO HOLE +0.05	FOLD TO HOLE +0.5
EDGE TO HOLE +0.3	FOLD TO EDGE +0.4
EDGE TO EDGE +0.4	FOLD TO FOLD +0.4

ADHERENCE TO DWG A-5951-564-1 (COST/SECTION 608) REQUIRED

**METRIC**

DO NOT SCALE THIS DRAWING

DRW	REV	DATE	BY	DESCRIPTION	MATERIAL	UNIT	DATE	BY
D	Ravis	15 Nov 99		DECK				
D	Ravis	15 Nov 99		Generic Assembly				

AGILENT TECHNOLOGIES  
 PART NUMBER: E4446-61005  
 SHEET 1 OF 1  
 E-4446-61005-1



**Deck Assembly E4416-61005 Replaceable Parts**

BOM REF	FIND NO.	REF DES	PART NO.	DESCRIPTION
595	REF		E4416-61005	DECK ASSY
604	2		0590-1851	THREADED INSERT,STDF,KEY HL,8MM LG
602	3		0590-1671	THREADED INSERT,STDF,M3X0.5,8MM LG
603	4		0590-1677	THREADED INSERT,STDF,M3X0.5,12MM LG
597	5		0363-0255	CONTACT FINGER,9.4MM WD,3.3MM FREE HGT
600	6		0590-1332	THD INSR,NUT,M4X0.7,2.97MM LOA,SST
598	7		0363-0257	CONTACT FINGER,15.24MM WD
601	8		0590-1381	THD INSR,STDF,THRU HL,M4X0.7,8MM LG,SST
607	9		8160-0923	RFI STRIP,FINGERS,BE-CU,ZNCCMT PL
	10		82-47-113-20	SOUTHCO CONNECTOR (NOT SHOWN)
608	11		E4418-00003	PWR SUPPLY COVER
612	12	A7	E4418-61004	FAN CABLE ASSY
596	13		0361-1257	RIVET,PLASTIC,UNIV HD,NYLON
616	14		E4418-61005	POWER CABLE ASSY
605	15	A1	0950-2649	PWR SPLY,40W,3 OUTPUTS
611	16		E4418-40003	BRKT,PCA SUPPORT
599	17		0515-2126	SCREW,MACHINE,M3X0.5,6MM LG,TORX T10 RECESS,PAN,STAINLESS STEEL,300 SERIES,PASSIVATED FINISH,CREST CUP CONICAL WASHER
606	18		3050-0300	WASHER,FL,NM,NO. 4,0.125IN ID,0.25IN OD



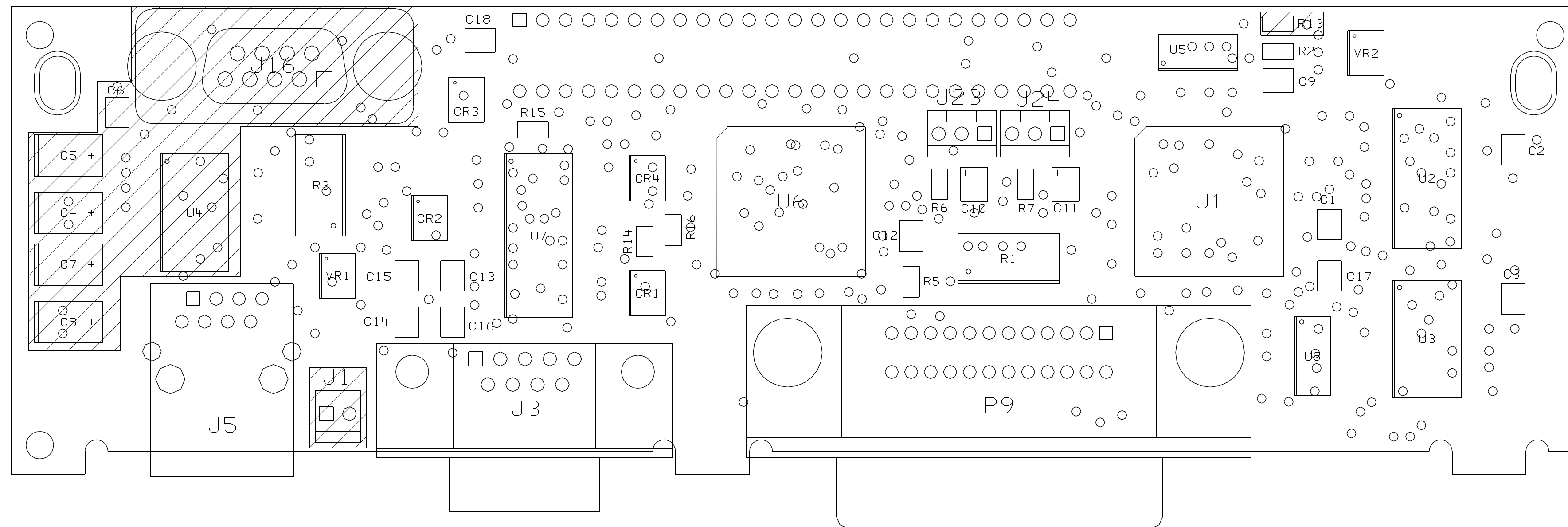
**Interface CCA E4418-60012 Parts List**

<b>ITEM</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>	<b>ITEM</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
	E4418-60012	INTERFACE CCA	J23	1252-2152	CONNECTOR
C1	0160-6222	CAPACITOR	J24	1252-2152	CONNECTOR
C2	0160-6222	CAPACITOR	P9	1252-2161	CONNECTOR
C3	0160-6222	CAPACITOR	R1	1810-1230	RES NETWORK
C9	0160-6222	CAPACITOR	R2	0699-1503	RESISTOR
C10	0180-3751	CAPACITOR	R3	1810-1093	RES NETWORK
C11	0180-3751	CAPACITOR	R5	0699-1503	RESISTOR
C12	0160-6222	CAPACITOR	R6	0699-1318	RESISTOR
C13	0160-6222	CAPACITOR	R7	0699-1318	RESISTOR
C14	0160-6222	CAPACITOR	R14	0699-1330	RESISTOR
C15	0160-6222	CAPACITOR	R15	0699-1330	RESISTOR
C16	0160-6222	CAPACITOR	R16	0699-1330	RESISTOR
C17	0160-6222	CAPACITOR	U1	1822-0639	IC
C18	0160-6222	CAPACITOR	U2	1820-6175	IC
CR4	1901-1615	DIODE	U3	1820-6176	IC
CR14	1901-1615	DIODE	U5	1820-5937	IC
CR24	1901-1615	DIODE	U6	1821-4621	IC
CR34	1901-1615	DIODE	U7	1821-4401	IC
J3	1252-6672	CONNECTOR	U8	1820-8728	IC
J4	1251-7986	CONNECTOR	VR1	1901-1616	DIODE
J5	1252-8989	CONNECTOR	VR2	1901-1616	DIODE

See Table 2 for a complete description and source of supply for the items contained in this assembly.



SYM	REVISIONS	APPROVED	DATE
C	AS ISSUED		23AUG99
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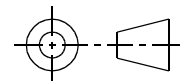


NOTES

1. SHADED COMPONENTS NOT LOADED.
2. BREAK-OUT TABS MUST BE MADE FLUSH WITH BOARD EDGE.  
(AFTER BREAKING OUT FROM PANEL)

TOP SIDE

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 TOLERANCES: xx.xxx ±.010  
 xx.xx ±.02  
 THIRD ANGLE PROJECTION   
 DO NOT SCALE THIS DRAWING

E.K.MCCUTCHEON  
 DRAWN BY  
 R. Taylor  
 ENGINEER/CHECKER  
 RELEASE TO PROD.  
 SUPERSEDES DWG.

01APR98  
 DATE  
 DATE  
 DATE  
 TITLE

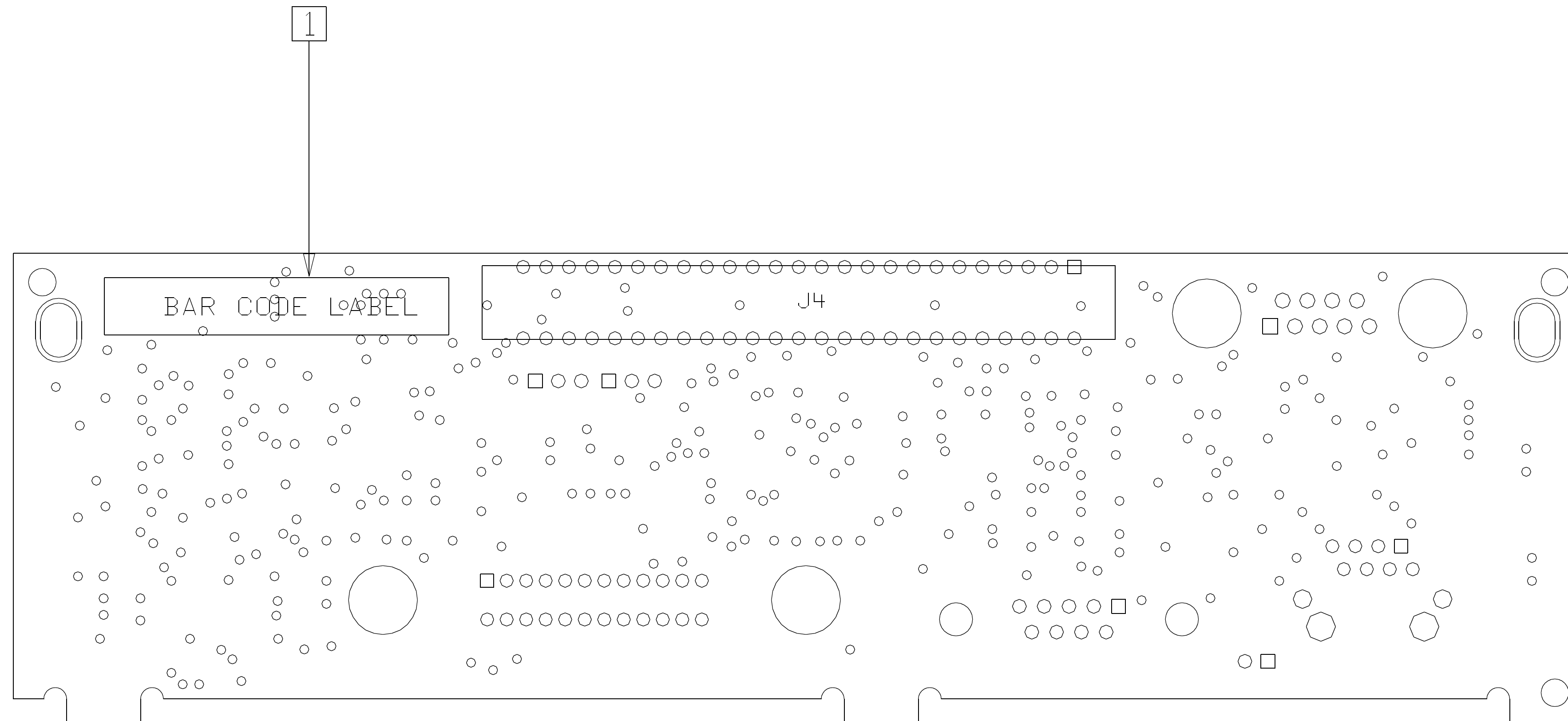
ASSEMBLY, PWB  
 COMMS BOARD  
 alfbs012  
 FILENAME  
 SCALE NONE  
 SHEET 1 OF 2  
 E4418-60012  
 PART NUMBER  
 C-E4418-60012-2







SYM	REVISIONS	APPROVED	DATE
C	AS ISSUED		23AUG99
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NOTES

1. LOAD BAR CODE LABEL AS SHOWN.

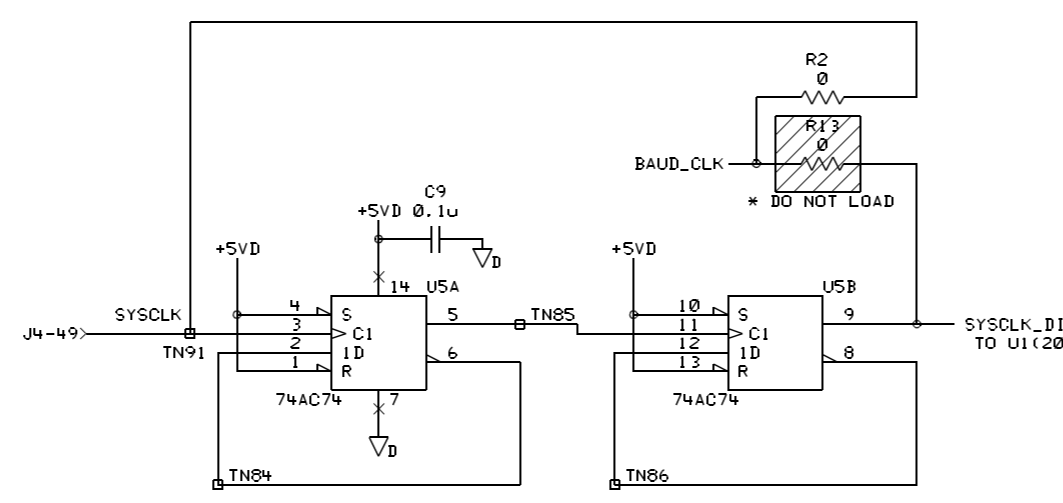
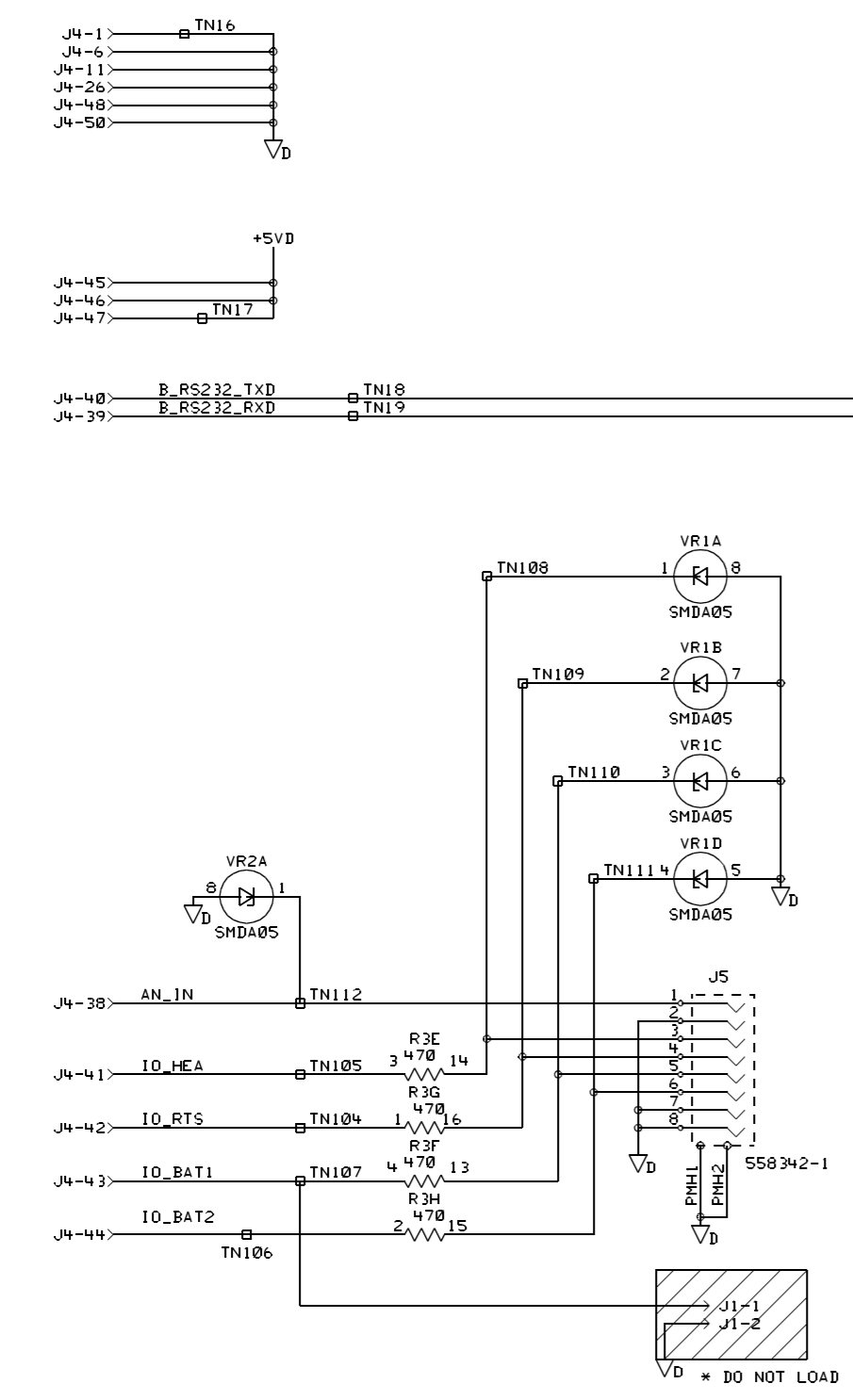
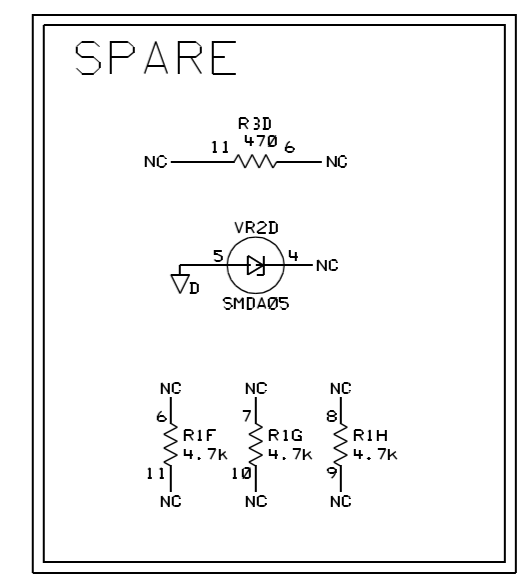
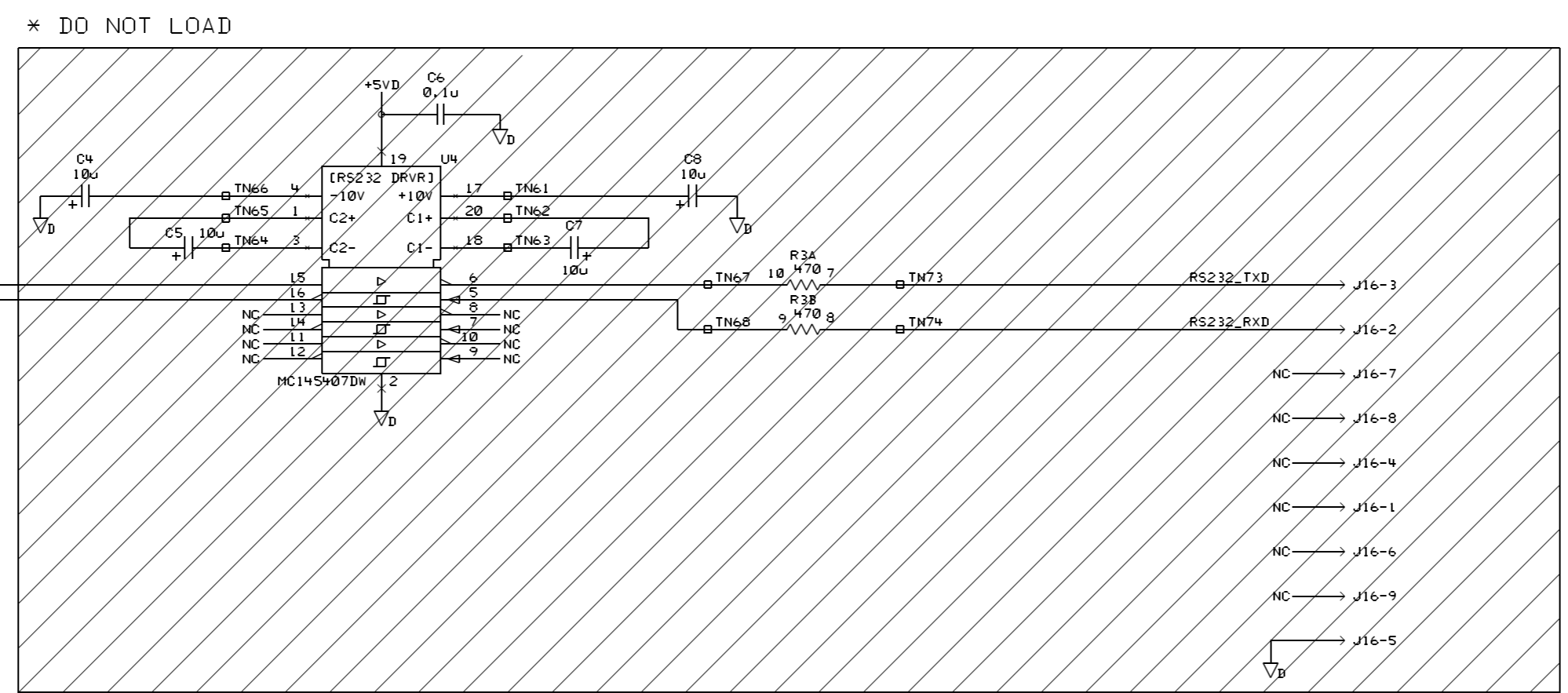
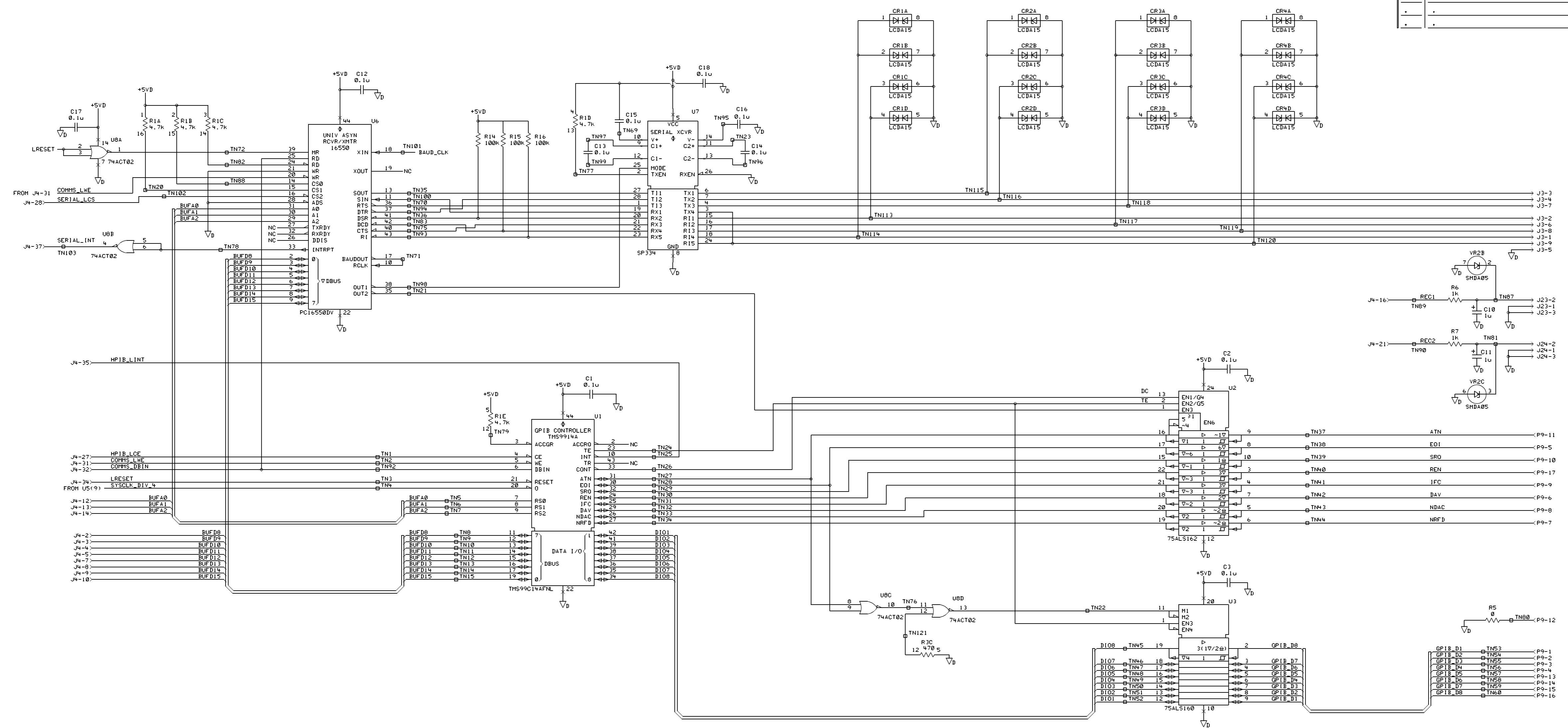
BOTTOM SIDE

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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.  TOLERANCES:    xx.xxx ±.010 xx.xx  ±.02  THIRD ANGLE PROJECTION   DO NOT SCALE THIS DRAWING	E.K.McCutcheon DRAWN BY	01APR98 DATE	ASSEMBLY, PWB COMMS BOARD  TITLE	a6fbs012 FILENAME	
	R. Taylor ENGINEER/CHECKER	DATE		SCALE NONE	
	RELEASE TO PROD.	DATE		SHEET 2 OF 2	
	SUPERSEDES DWG.	DATE		E4418-60012 PART NUMBER	
				C-E4418-60012-2	



SYM	REVISIONS	APPROVED	DATE
C	AS ISSUED		23AUG99
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E.K.McCutcheon DRAWN BY	15DEC97 DATE	SCHEMATIC, PWA COMMS BOARD	s1fbs012 FILENAME	Agilent Technologies
R. Taylor ENGINEER/CHECKER	DATE		SCALE NONE	
RELEASE TO PROD.	DATE		SHEET 1 OF 1	E4418-60012 PART NUMBER
SUPERSEDES DWG.		TITLE	D-E4418-60012-1	



**Processor CCA E4418-60028 Parts List**

ITEM	PART NUMBER	DESCRIPTION	ITEM	PART NUMBER	DESCRIPTION
	E4418-60028	PROCESSOR CCA	C72	0180-3472	CAPACITOR
BT1	1420-0338	BATTERY	C75	0180-4538	CAPACITOR
C1	0160-5945	CAPACITOR	C76	0180-4287	CAPACITOR
C3	0160-6222	CAPACITOR	C77	0180-4287	CAPACITOR
C7	0180-3751	CAPACITOR	C78	0180-4538	CAPACITOR
C8	0160-6222	CAPACITOR	C82	0160-6222	CAPACITOR
C9	0160-6222	CAPACITOR	C83	0160-6222	CAPACITOR
C12	0160-6222	CAPACITOR	C85	0160-6736	CAPACITOR
C13	0160-6222	CAPACITOR	C86	0160-7798	CAPACITOR
C14	0160-6222	CAPACITOR	C87	0160-7798	CAPACITOR
C15	0160-6222	CAPACITOR	C88	0160-7751	CAPACITOR
C19	0160-6222	CAPACITOR	C89	0160-7835	CAPACITOR
C20	0160-6222	CAPACITOR	C90	0180-4274	CAPACITOR
C21	0160-6222	CAPACITOR	C91	0160-7771	CAPACITOR
C22	0160-6222	CAPACITOR	C92	0160-7708	CAPACITOR
C23	0160-6222	CAPACITOR	C93	0160-7855	CAPACITOR
C24	0160-6222	CAPACITOR	C94	0160-7751	CAPACITOR
C25	0160-6222	CAPACITOR	C97	0160-7751	CAPACITOR
C26	0160-6222	CAPACITOR	C100	0160-6222	CAPACITOR
C27	0160-6222	CAPACITOR	C101	0160-6222	CAPACITOR
C28	0160-6222	CAPACITOR	C102	0160-6222	CAPACITOR
C29	0160-6222	CAPACITOR	C103	0160-6222	CAPACITOR
C30	0160-6222	CAPACITOR	C104	0160-6908	CAPACITOR
C31	0160-6222	CAPACITOR	C107	0160-6222	CAPACITOR
C32	0160-6222	CAPACITOR	C108	0160-6222	CAPACITOR
C33	0160-6222	CAPACITOR	C113	0180-3751	CAPACITOR
C34	0160-6222	CAPACITOR	C115	0160-6222	CAPACITOR
C35	0160-6222	CAPACITOR	C117	0180-3751	CAPACITOR
C40	0160-6222	CAPACITOR	C118	0160-6222	CAPACITOR
C50	0160-6222	CAPACITOR	C121	0180-3751	CAPACITOR
C51	0160-6222	CAPACITOR	C125	0160-6222	CAPACITOR
C52	0160-6222	CAPACITOR	C126	0161-0768	CAPACITOR
C53	0160-6222	CAPACITOR	C127	0161-0769	CAPACITOR
C54	0160-6222	CAPACITOR	C128	0160-7977	CAPACITOR
C55	0160-6222	CAPACITOR	CR1	1901-1459	DIODE
C59	0180-4538	CAPACITOR	CR2	1901-1459	DIODE
C62	0160-6222	CAPACITOR	CR3	1901-1459	DIODE
C63	0160-6222	CAPACITOR	CR4	1901-1227	DIODE
C64	0160-6222	CAPACITOR	CR5	1901-1332	DIODE
C65	0160-6222	CAPACITOR	CR6	1900-0245	DIODE
C66	0160-6222	CAPACITOR	CR8	1900-0245	DIODE
C67	0160-6736	CAPACITOR	CR9	1901-1227	DIODE
C71	0160-5945	CAPACITOR	CR10	1906-0437	DIODE

**Processor CCA E4418-60028 Parts List (Continued)**

ITEM	PART NUMBER	DESCRIPTION	ITEM	PART NUMBER	DESCRIPTION
CR11	1900-0245	DIODE	R10	0699-1448	RESISTOR
CR12	0122-0610	DIODE	R11	0699-1440	RESISTOR
E1	9170-1421	SHIELDING BEAD	R13	0699-1318	RESISTOR
E2	9170-1421	SHIELDING BEAD	R14	0699-1432	RESISTOR
J1	1253-6312	CONNECTOR	R15	0699-1356	RESISTOR
J2	1252-7557	CONNECTOR	R22	0699-1385	RESISTOR
J3	1252-8369	CONNECTOR	R23	0699-1385	RESISTOR
J9	1251-6427	CONNECTOR	R24	0699-1385	RESISTOR
J13	1250-1425	CONNECTOR	R28	1810-1064	RES NETWORK
J14	1252-8367	CONNECTOR	R29	0699-1385	RESISTOR
L1	9140-2026	INDUCTOR	R38	0699-1329	RESISTOR
L2	9140-1354	INDUCTOR	R39	0699-1329	RESISTOR
L3	9140-1354	INDUCTOR	R40	0699-2847	RESISTOR
L4	9140-1354	INDUCTOR	R41	0699-2847	RESISTOR
L5	9140-1121	INDUCTOR	R51	0699-1408	RESISTOR
L6	9140-1237	INDUCTOR	R52	0699-1445	RESISTOR
L7	9140-1237	INDUCTOR	R53	0699-1330	RESISTOR
L8	9140-1237	INDUCTOR	R54	0699-1392	RESISTOR
L9	00436-80001	COIL	R55	0699-1391	RESISTOR
L11	9140-2170	INDUCTOR	R56	0699-1403	RESISTOR
L12	9140-2170	INDUCTOR	R57	0699-1996	RESISTOR
L13	9140-1564	INDUCTOR	R58	0699-1445	RESISTOR
MP2	0403-0026	PLUG	R59	0699-1408	RESISTOR
MP3	E4418-00013	CAL SCREEN	R60	0699-1408	RESISTOR
MP8	E4418-00017	CAL SCREEN	R61	0699-1403	RESISTOR
MP11	0403-0026	PLUG	R62	0699-1391	RESISTOR
P4	1252-0064	CONNECTOR	R63	0699-1376	RESISTOR
P5	1252-0238	CONNECTOR	R64	0699-2151	RESISTOR
Q2	1855-0800	TRANSISTOR	R65	0699-1408	RESISTOR
Q4	1855-0939	TRANSISTOR	R66	0699-1320	RESISTOR
Q5	1855-0939	TRANSISTOR	R67	0699-1448	RESISTOR
Q6	1855-0936	TRANSISTOR	R68	0699-1996	RESISTOR
Q7	1855-0734	TRANSISTOR	R69	0699-1330	RESISTOR
Q8	1853-0567	TRANSISTOR	R70	0699-1400	RESISTOR
Q9	1854-1037	TRANSISTOR	R71	0699-1456	RESISTOR
Q12	1855-0734	TRANSISTOR	R72	0699-1329	RESISTOR
Q13	1854-1712	TRANSISTOR	R73	0699-1376	RESISTOR
R1	1810-1064	RES NETWORK	R74	0699-1429	RESISTOR
R2	1810-1064	RES NETWORK	R75	0699-1330	RESISTOR
R3	1810-1064	RES NETWORK	R76	0699-1318	RESISTOR
R4	1810-1064	RES NETWORK	R77	0699-1434	RESISTOR
R5	1810-1064	RES NETWORK	R78	0699-1376	RESISTOR
R6	1810-1064	RES NETWORK	R79	0699-1356	RESISTOR

**Processor CCA E4418-60028 Parts List (Continued)**

ITEM	PART NUMBER	DESCRIPTION
R80	0699-1391	RESISTOR
R81	0699-1330	RESISTOR
R82	0699-1330	RESISTOR
R83	0699-1503	RESISTOR
R86	0699-1388	RESISTOR
R87	0699-1404	RESISTOR
R89	0699-3970	RESISTOR
R90	2100-3091	RESISTOR
R91	0699-2825	RESISTOR
R92	0699-3956	RESISTOR
R93	0699-3967	RESISTOR
R94	0699-3993	RESISTOR
R95	0699-3368	RESISTOR
R96	0699-3993	RESISTOR
R97	0699-3947	RESISTOR
R98	0699-3947	RESISTOR
R99	0699-3970	RESISTOR
R100	0699-3954	RESISTOR
R101	0699-3921	RESISTOR
R102	0699-3937	RESISTOR
R103	0699-2829	RESISTOR
R104	1810-1064	RES NETWORK
R105	0699-1318	RESISTOR
R111	0699-1380	RESISTOR
R112	0699-1371	RESISTOR
R113	0699-1412	RESISTOR
R114	0699-1390	RESISTOR
R115	0699-1440	RESISTOR
R117	0699-1385	RESISTOR
R118	0699-1785	RESISTOR
R119	0699-1376	RESISTOR
R120	0699-1403	RESISTOR
R121	0699-1412	RESISTOR
R122	0699-1385	RESISTOR
R123	0699-1383	RESISTOR
R124	0699-1391	RESISTOR
R125	0699-1460	RESISTOR
R126	0699-1372	RESISTOR
R127	0811-3837	RESISTOR
R128	0699-1437	RESISTOR
R129	0699-1443	RESISTOR
R130	0699-1388	RESISTOR
R131	0699-1391	RESISTOR

ITEM	PART NUMBER	DESCRIPTION
R132	0699-1408	RESISTOR
R133	0699-1443	RESISTOR
R134	0699-1447	RESISTOR
R135	0699-1389	RESISTOR
R136	0699-1409	RESISTOR
R137	0699-1391	RESISTOR
R138	0699-1503	RESISTOR
R144	0699-1429	RESISTOR
R150	0699-1356	RESISTOR
R151	0699-1356	RESISTOR
R158	0699-1462	RESISTOR
R159	0699-1409	RESISTOR
R168	0699-1318	RESISTOR
R169	0699-1391	RESISTOR
R174	0699-1462	RESISTOR
R175	0699-1330	RESISTOR
R191	0811-3858	RESISTOR
R198	0699-1318	RESISTOR
R201	1810-1231	RES NETWORK
R215	1810-1064	RES NETWORK
R219	0699-1503	RESISTOR
R221	0699-1318	RESISTOR
R222	0699-1391	RESISTOR
R227	0699-1503	RESISTOR
R230	1810-1064	RES NETWORK
R231	0699-1391	RESISTOR
R232	0699-1356	RESISTOR
U01	1826-2850	IC
U02	1820-7332	IC
U6	1821-0078	IC
U7	E4418-80019	IC
U8	E4418-80020	IC
U11	1818-5231	IC
U12	1818-5231	IC
U14	E4418-80022	IC
U15	1820-7281	IC
U16	1820-7281	IC
U17	1820-7281	IC
U18	1820-7281	IC
U23	1820-7281	IC
U28	1826-1925	IC
U29	1826-1925	IC
U30	1826-3127	IC

**Processor CCA E4418-60028 Parts List (Continued)**

<b>ITEM</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>	<b>ITEM</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
U31	1826-1622	IC	U41	1826-2218	IC
U32	1826-3349	IC	U47	1813-1031	OSCILLATOR
U33	1820-5709	IC	U48	1826-2147	IC
U34	1820-4966	IC	U53	1821-0403	IC
U35	1826-1225	IC	U56	1821-1494	IC
U39	1818-5231	IC	U57	1826-2656	IC
U40	1818-5231	IC	W1	1258-0209	JUMPER

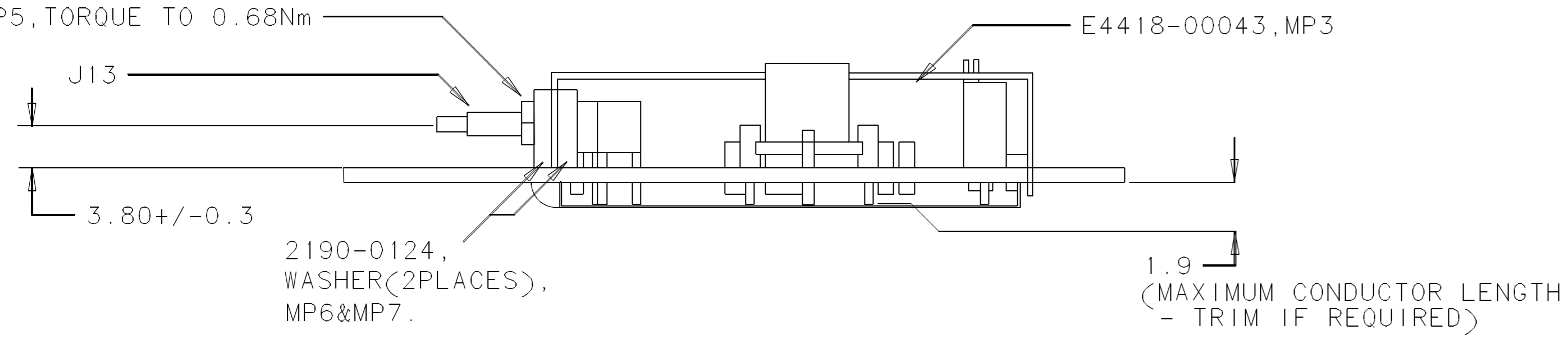
See Table 2 for a complete description and source of supply for the items contained in this assembly.



SYM	REVISIONS		APPROVED		DATE	
	C	REVISED		A. FINLAY		12MAR04
D	REVISED				05AUG04	
E	REVISED		A. FINLAY		07OCT04	

2950-0078, (NUT) MP5, TORQUE TO 0.68Nm

DETAIL A

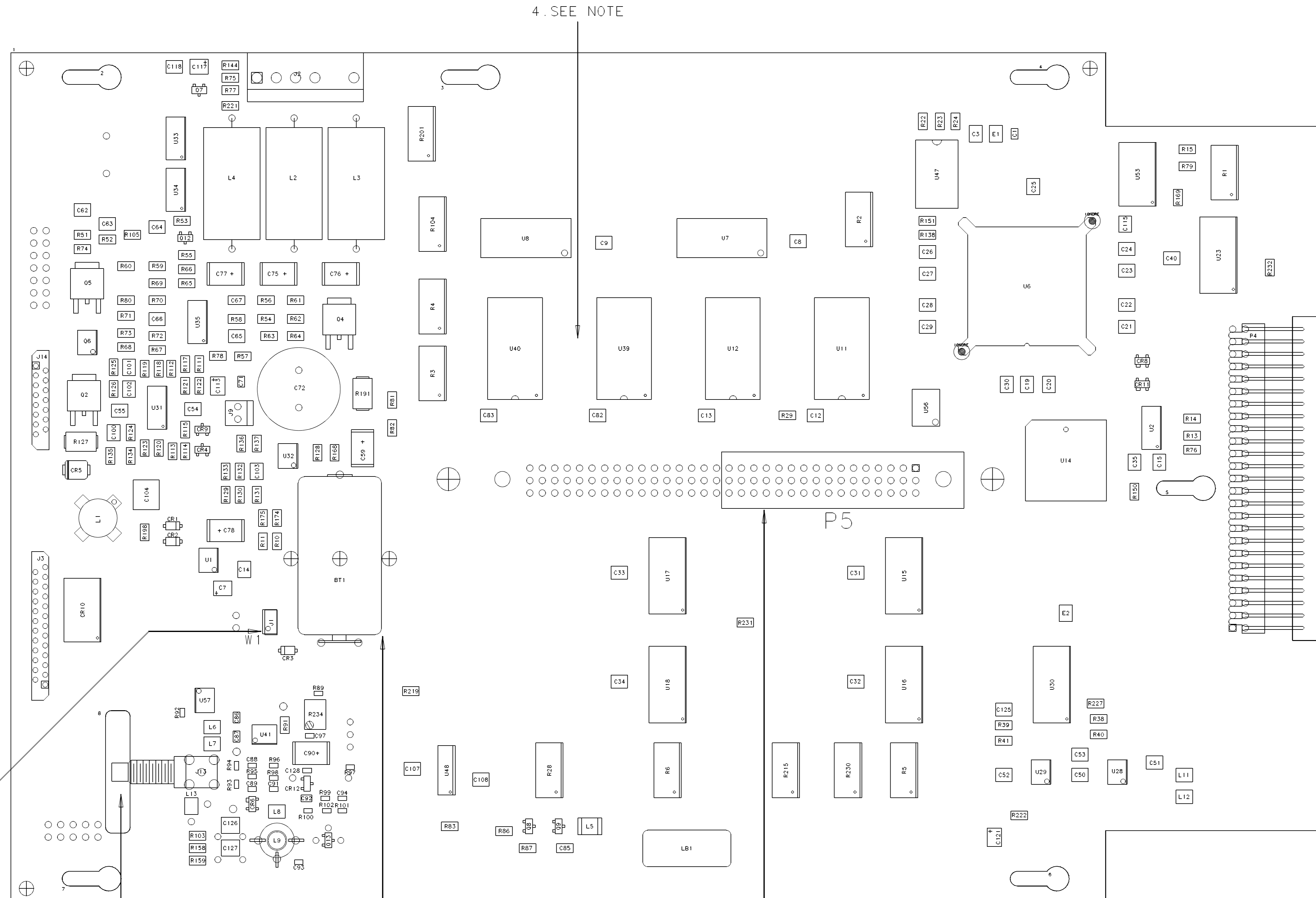


TOP SIDE

NOTES

1. LOAD BATTERY (BT1) AFTER WAVE SOLDER. BEFORE LOADING BATTERY APPLY RTV (DOW CORNING OR EQUIVALENT) TO UNDERSIDE OF BATTERY. LEADS SHOULD BE NO LONGER THAN IMM AFTER LOADING.
2. LOAD AS PER INSTRUCTIONS IN DETAIL A (ALSO SEE BOTTOM SIDE ASSY DWG, ASMBOT).
3. LOAD P5 AS SHOWN.
4. TWO OF 1818-5956 (4MB PARTS) CAN BE LOADED AS AN ALTERNATIVE TO FOUR OF U11, U12, U39, U40. THESE SHOULD BE LOADED IN PAD POSITION OF U39 & U40. TRACKS CURRENTLY EXIST ON RAW CARD.
5. LOAD W1 (1258-0209) ACROSS PINS 1&2 OF J1.

PLEASE NOTE THIS BOARD IS POST ROUT.  
THIS ASSEMBLY USES E4418-20001 RAW CARD.



4. SEE NOTE

3. SEE NOTE

1. SEE NOTE.

2. SEE NOTE / DETAIL A

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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.  
TOLERANCES: XX.XXX .010  
XX.XX .02  
THIRD ANGLE PROJECTION  
DO NOT SCALE THIS DRAWING

D.Hastie  
DRAWN BY  
N. Galbraith  
ENGINEER/CHECKER  
RELEASE TO PROD.  
SUPERSEDES DWG.

01OCT01  
DATE  
DATE  
DATE

ASSEMBLY, PWB  
SCORPION  
PROCESSOR BRD  
TITLE

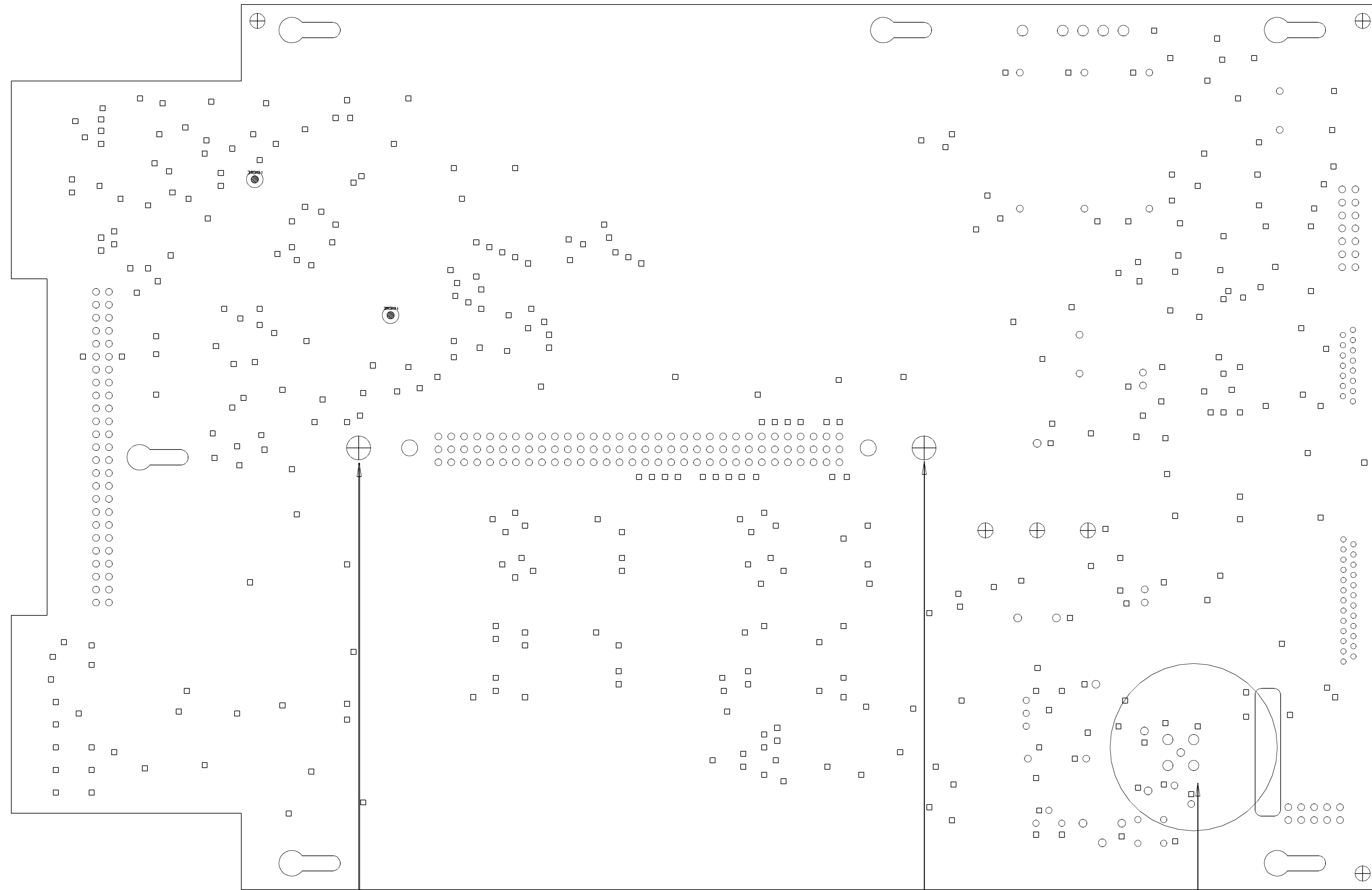
FILENAME	AGILENT TECHNOLOGIES
SCALE	NONE
SHEET 1 OF 2	E4418-60028 PART NUMBER
	D-E4418-60028-2

5. SEE NOTE.



SYM	REVISIONS	APPROVED	DATE
C	REVISED	A.FINLAY	12MAR04
D	REVISED		05AUG04
E	REVISED	A.FINLAY	07OCT04

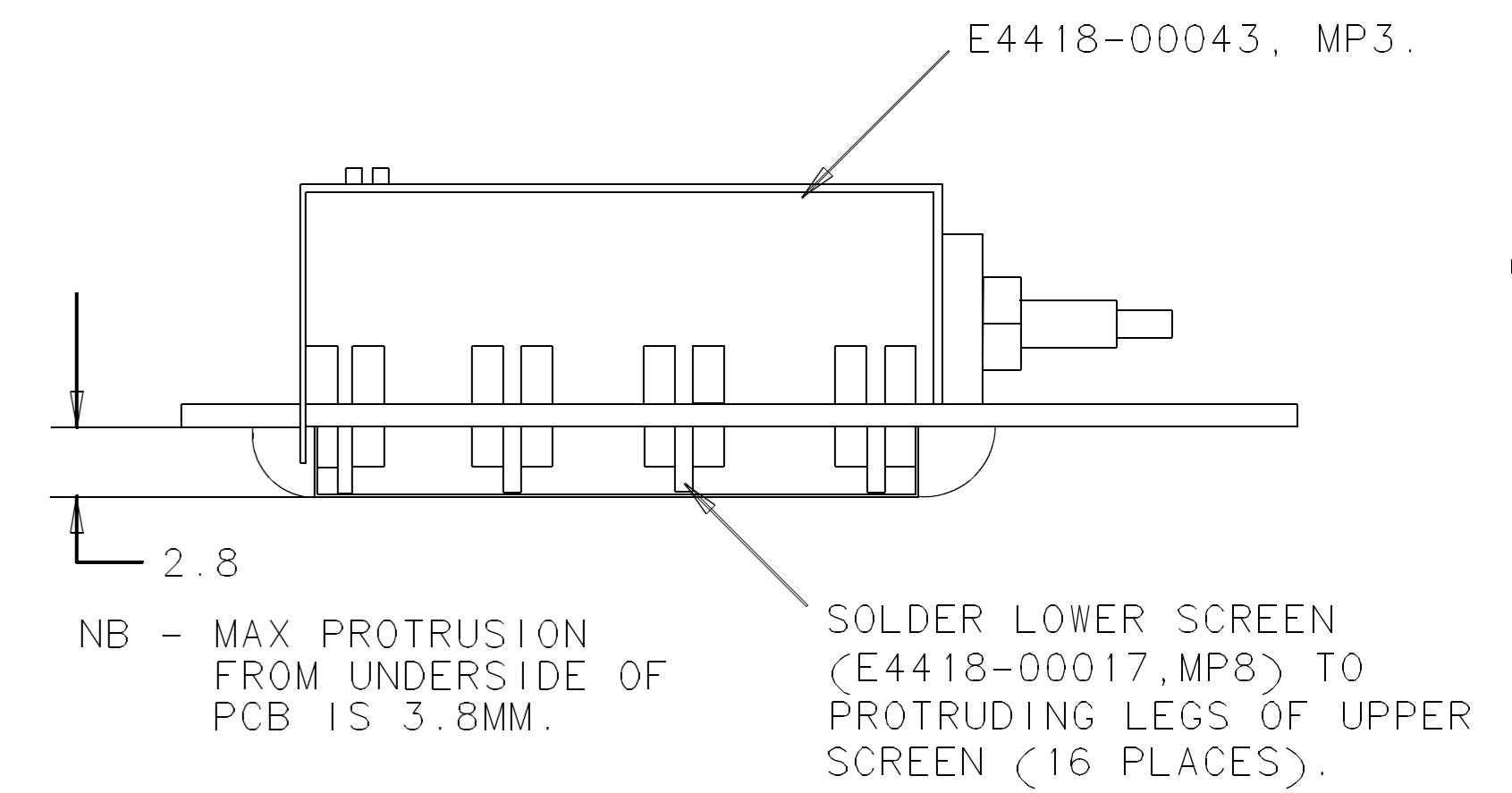
# BOTTOM SIDE



## NOTES

1. LEAD PROTRUSION ON BOTTOM SIDE OF PCA MUST NOT EXCEED 1.9mm.
2. PLACE MP8 AS SHOWN IN DETAIL A.
3. MP2 & MP11 LOADED FROM BOTTOM SIDE.

### DETAIL A



2. SEE NOTE / DETAIL A.

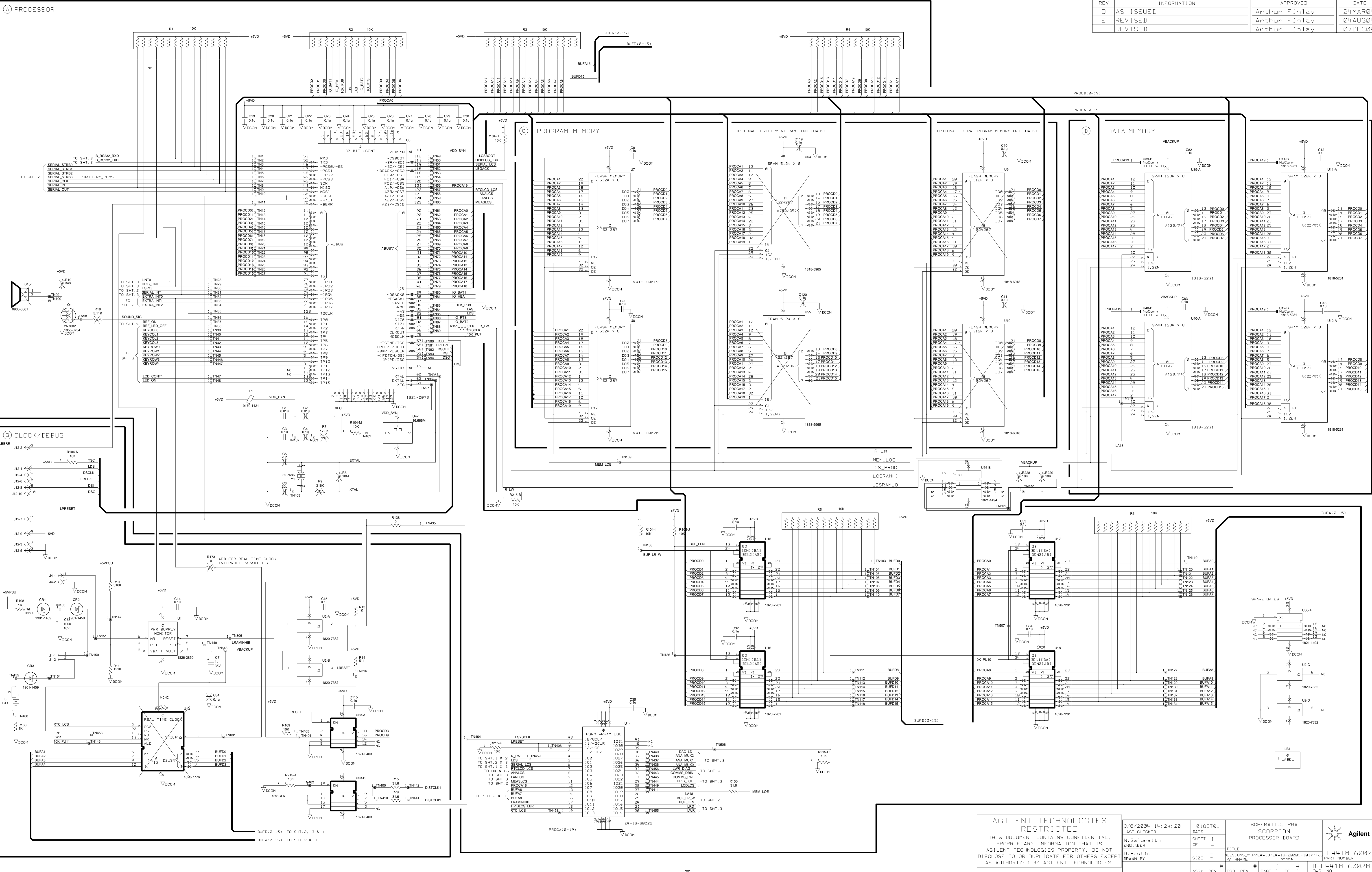
MP 11

MP 2

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES: xx.xxx .010 xx.xx .02	D.Hastie DRAWN BY	030CT01 DATE	ASSEMBLY, PWB SCORPION PROCESSOR BRD TITLE	FILENAME	AGILENT TECHNOLOGIES
	N.Galbraith ENGINEER/CHECKER	DATE		SCALE	
THIRD ANGLE PROJECTION	RELEASE TO PROD.	DATE		SHEET 2 OF 2	E4418-60028 PART NUMBER
DO NOT SCALE THIS DRAWING	SUPSEDES DWG.			D-E4418-60028-2	



REV	INFORMATION	APPROVED	DATE
D	AS ISSUED	Arthur Finlay	24MAR04
E	REVISED	Arthur Finlay	04AUG04
F	REVISED	Arthur Finlay	07DEC04



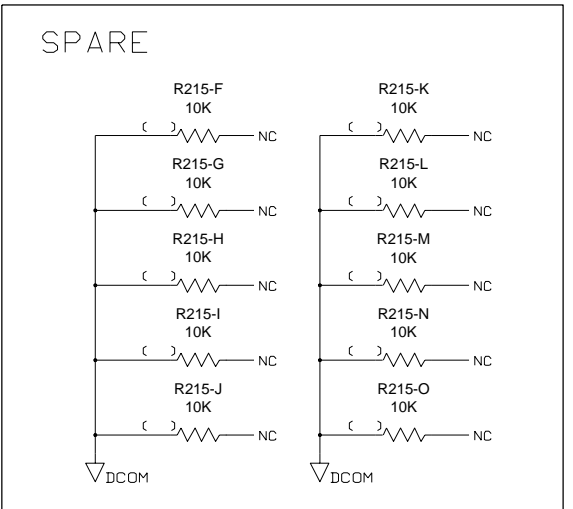
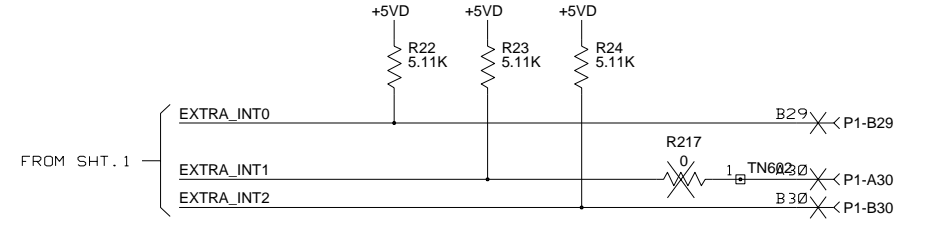
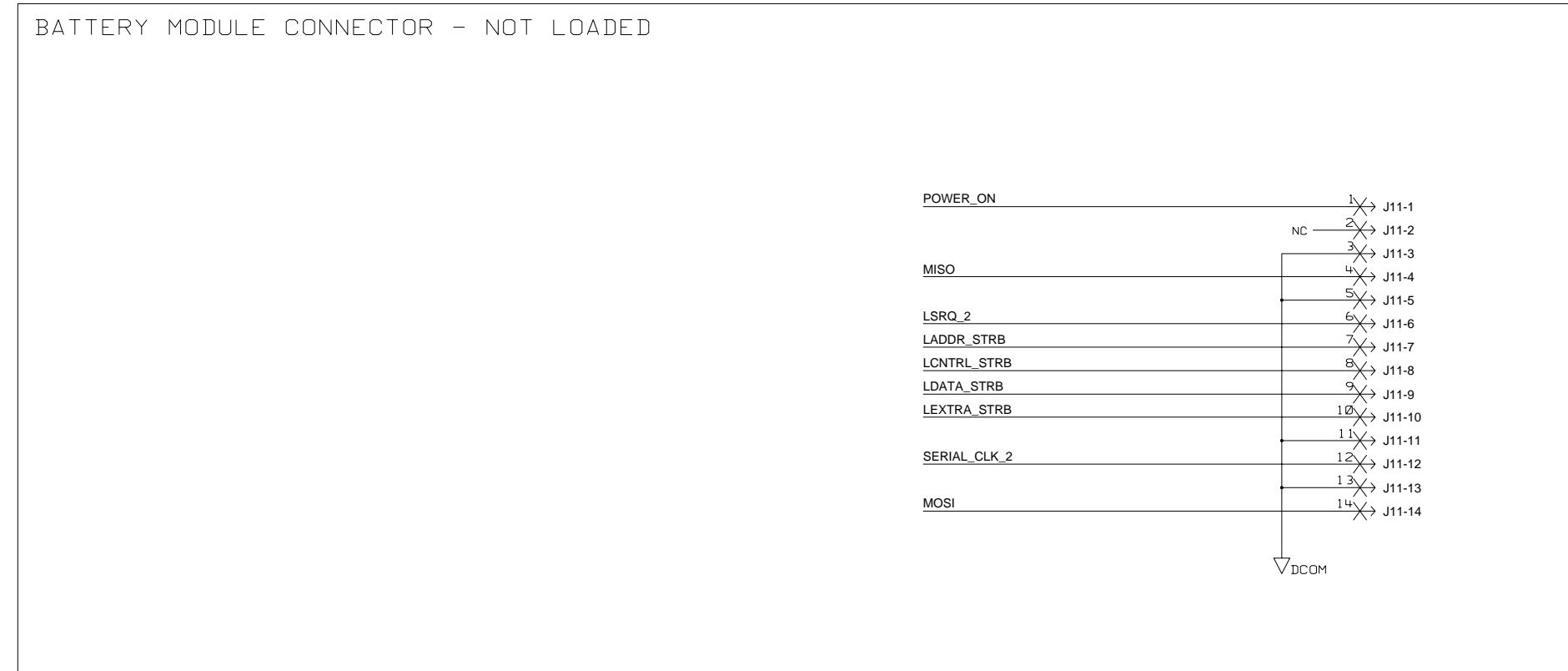
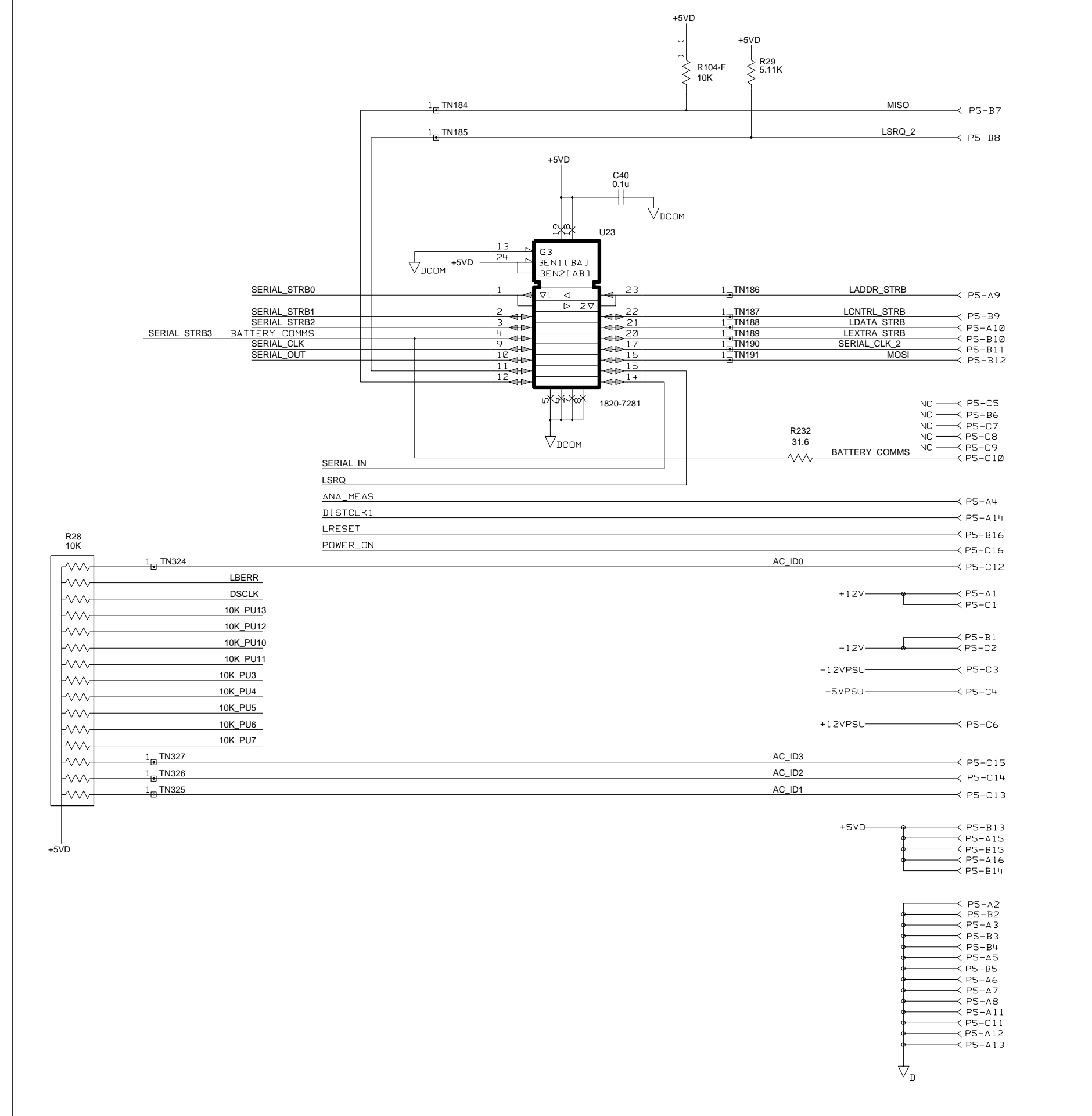
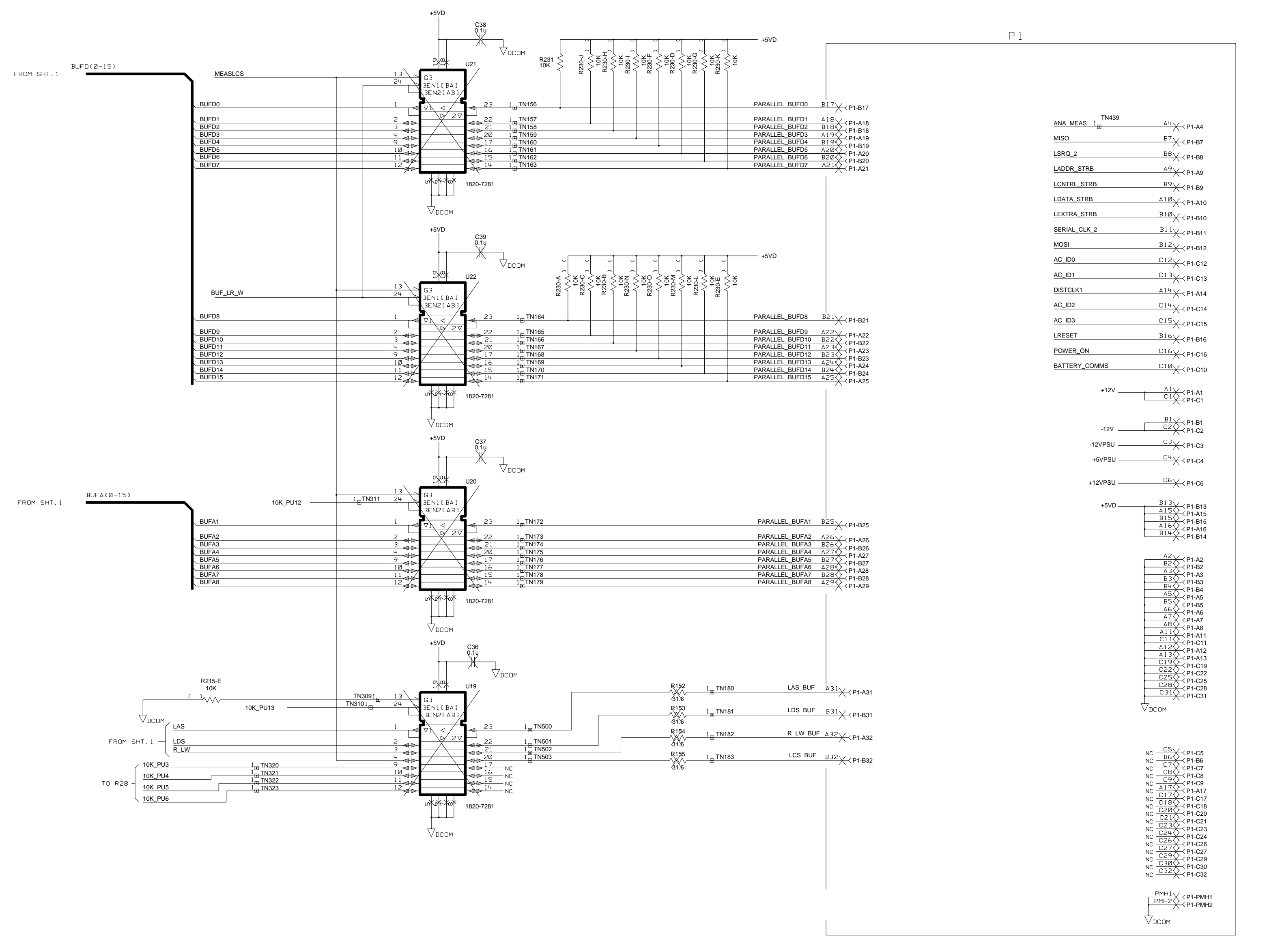
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THIS DOCUMENT CONTAINS CONFIDENTIAL, PROPRIETARY INFORMATION THAT IS AGILENT TECHNOLOGIES PROPERTY. DO NOT DISCLOSE OR DUPLICATE FOR OTHERS EXCEPT AS AUTHORIZED BY AGILENT TECHNOLOGIES.		LAST CHECKED	SHEET 1 OF 4		
D. Hastie DRAWN BY		DATE	TITLE	PART NUMBER	REV
E4418-60028		07DEC04	DESIGNSHIP/E4418/E4418-20001-101x100	E4418-60028	sheet1
ASSY_REV #		BRD_REV #	PAGE 1 OF 4	D-E4418-60028-1	

REV	INFORMATION	APPROVED	DATE
D	AS ISSUED	Arthur Finlay	24MAR04
E	REVISED	Arthur Finlay	04AUG04
F	REVISED	Arthur Finlay	07DEC04

# D-E4418-60028-1

(E) SERIAL

CIRCUITRY FOR POSSIBLE EXPANSION ONLY - COMPONENTS NOT LOADED

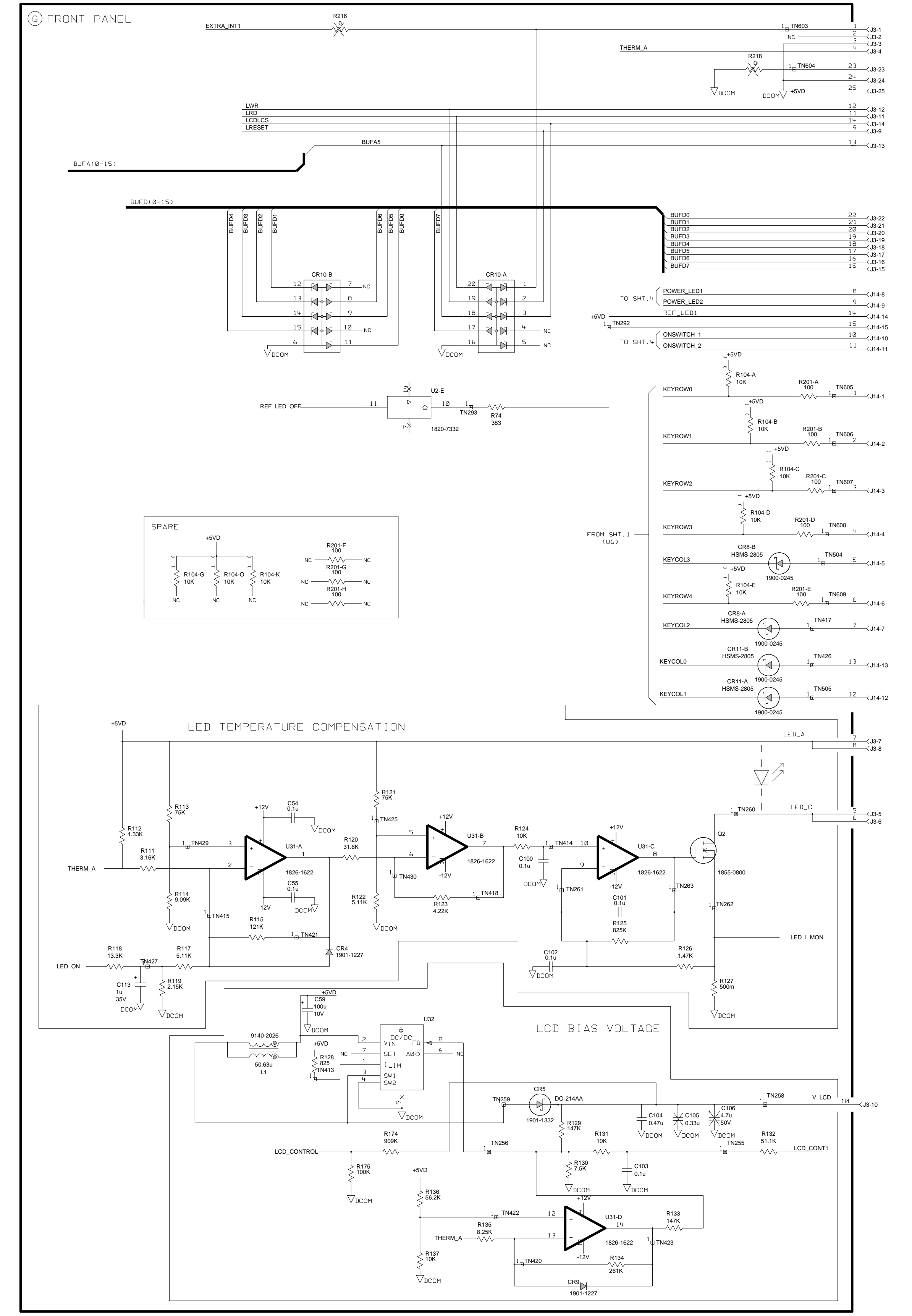
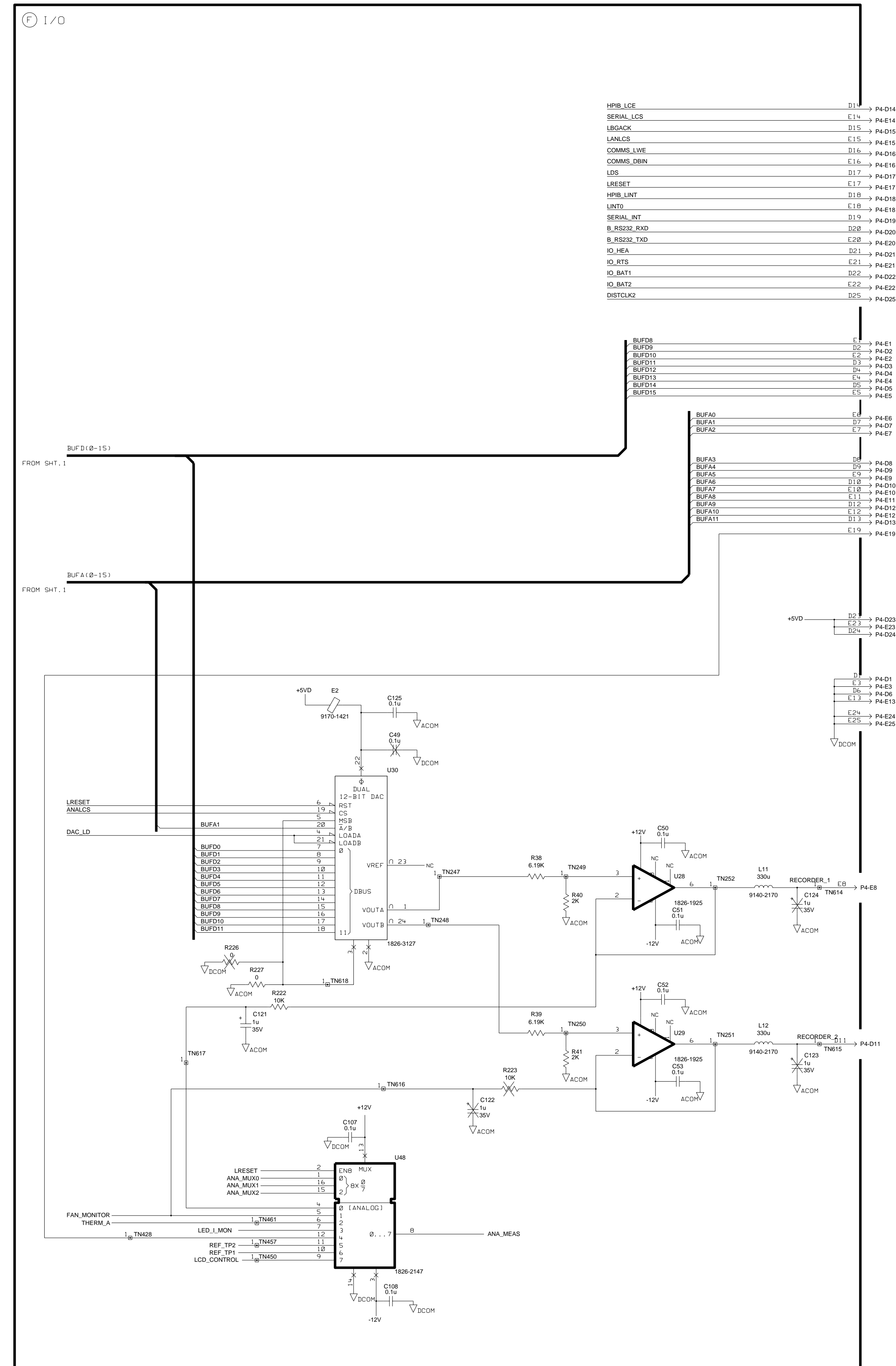


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	D. Hastie DRAWN BY	SIZE D DESIGNSHIP/E4418-60028-101X700 PART NUMBER	E4418-60028 PART NUMBER	

LAST MODIFIED: 8/3/04 AT 15:22:20

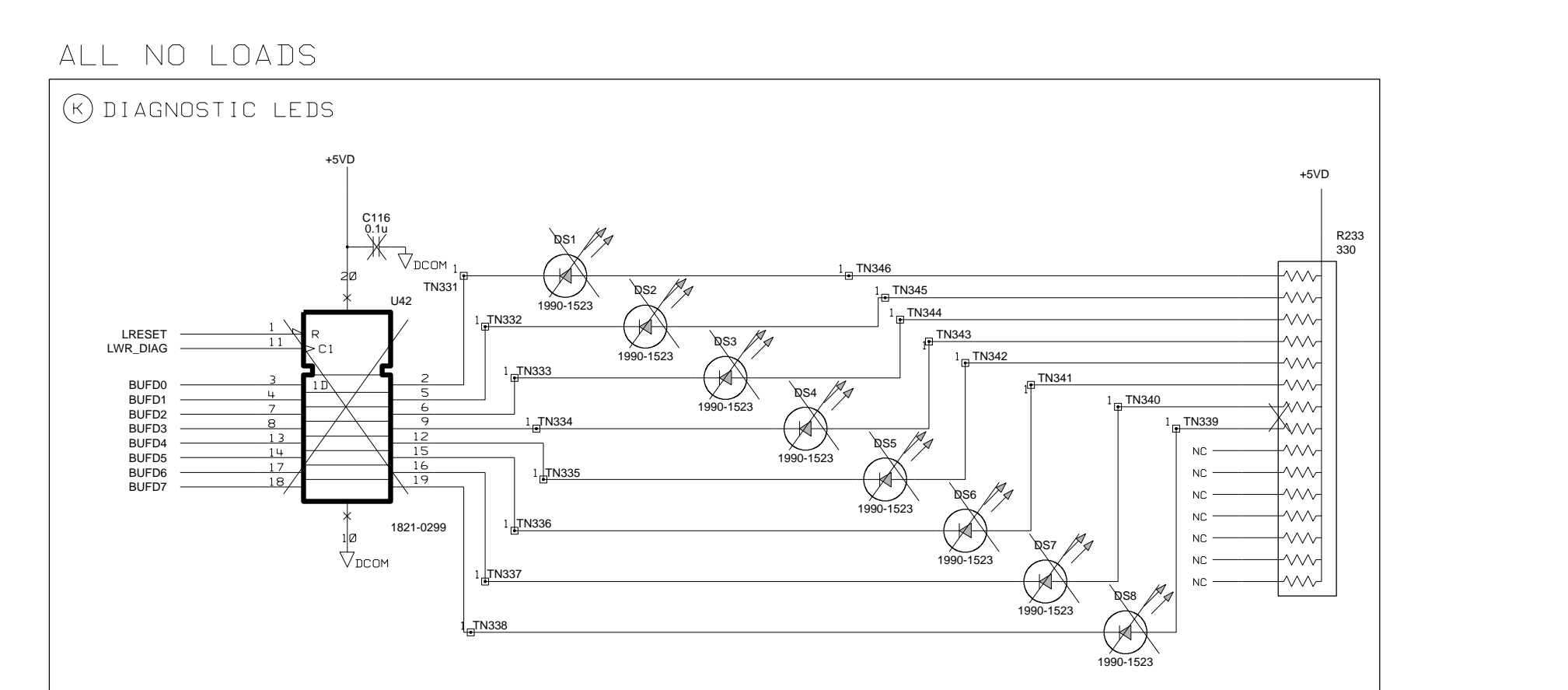
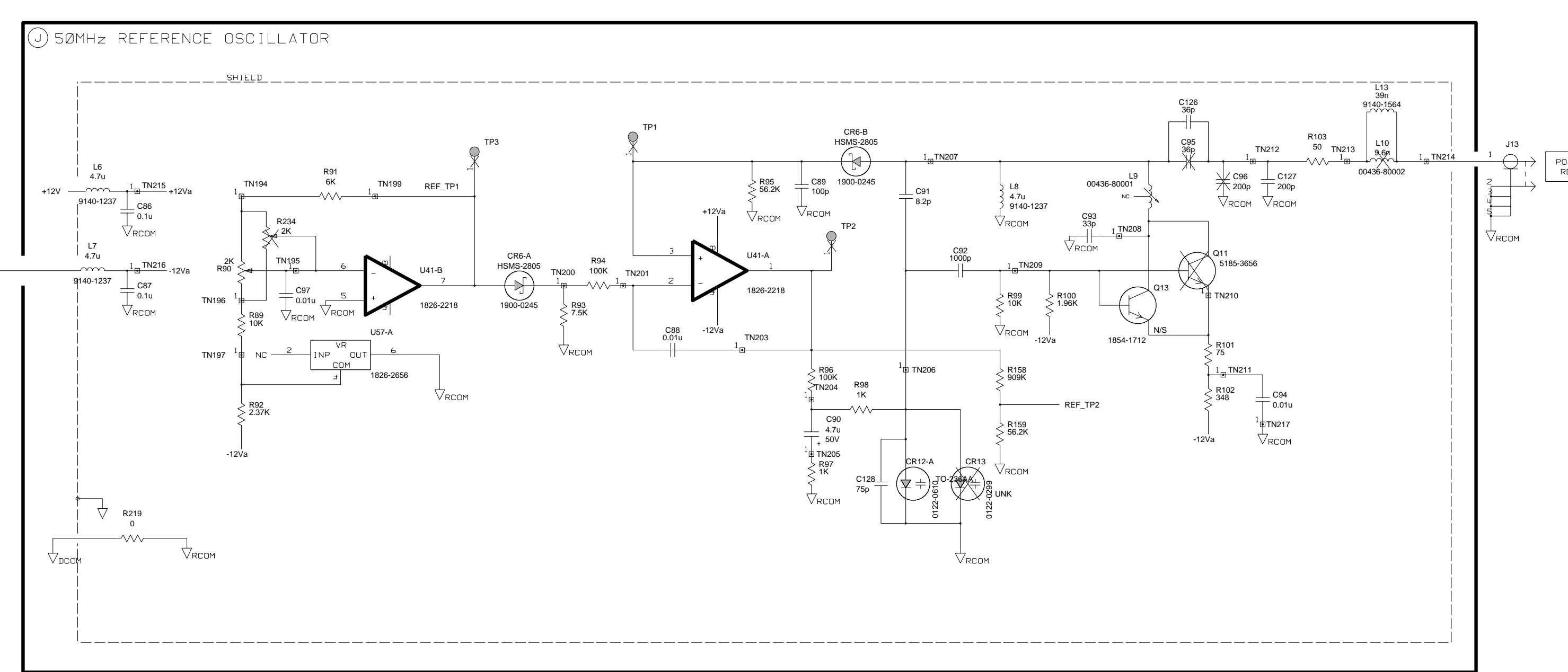
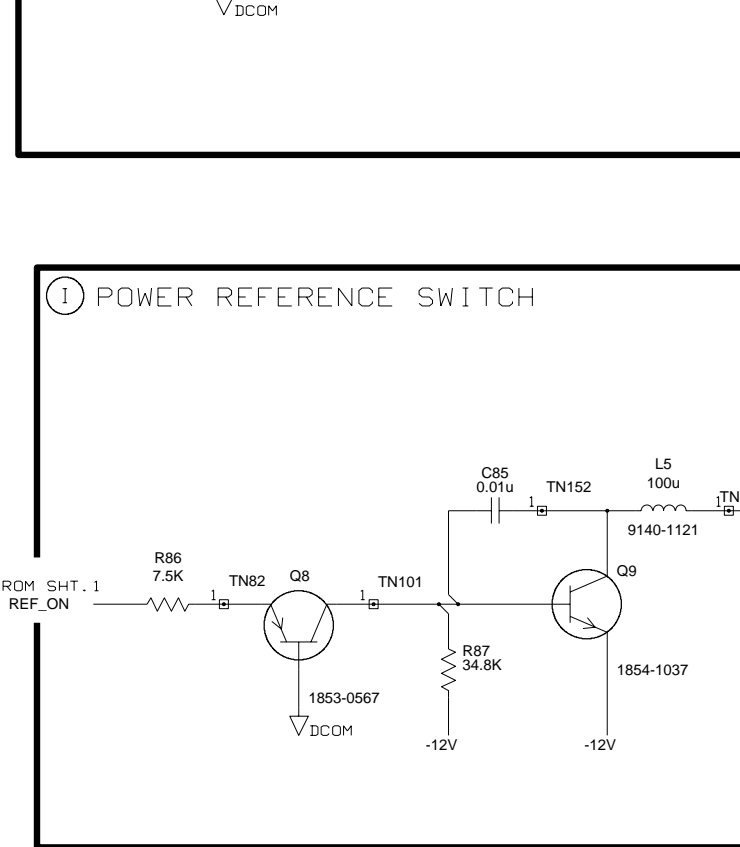
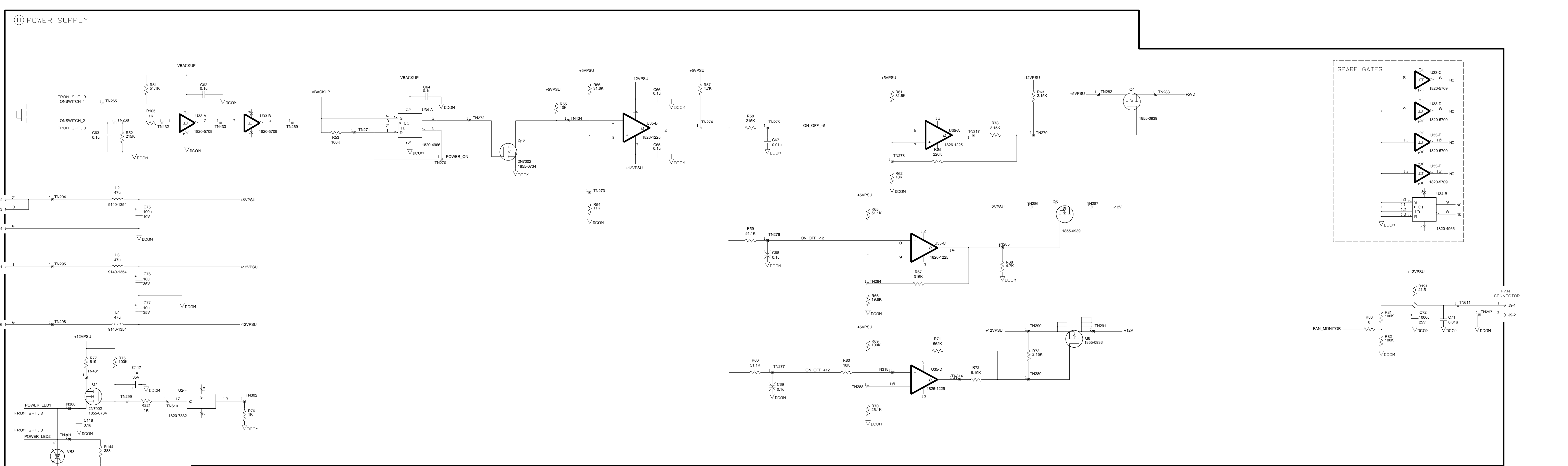
REV	INFORMATION	APPROVED	DATE
D	AS ISSUED	Arthur Finlay	24MAR04
E	REVISED	Arthur Finlay	04AUG04
F	REVISED	Arthur Finlay	07DEC04

# D-E4418-60028-1



REV	INFORMATION	APPROVED	DATE
D	AS ISSUED	Arthur Finlay	24MAR04
E	REVISED	Arthur Finlay	04AUG04
F	REVISED	Arthur Finlay	07DEC04

# D-E4418-60028-1



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--	--	--	--	--	---

LAST MODIFIED: 7/12/04 AT 13:37:46



**Average CCA E4418-60003 Parts List**

ITEM	PART NUMBER	DESCRIPTION
	E4418-60003	AVERAGE CCA
C1	0180-4054	CAPACITOR
C2	0160-6734	CAPACITOR
C3	0160-5967	CAPACITOR
C4	0180-4228	CAPACITOR
C5	0160-5967	CAPACITOR
C6	0160-6736	CAPACITOR
C7	0180-4054	CAPACITOR
C8	0160-6734	CAPACITOR
C9	0160-6104	CAPACITOR
C10	0180-4116	CAPACITOR
C11	0180-4287	CAPACITOR
C12	0160-8357	CAPACITOR
C13	0160-6734	CAPACITOR
C14	0160-3762	CAPACITOR
C15	0160-6734	CAPACITOR
C16	0160-6734	CAPACITOR
C17	0160-6734	CAPACITOR
C18	0160-8059	CAPACITOR
C19	0160-7332	CAPACITOR
C20	0160-8059	CAPACITOR
C21	0160-7332	CAPACITOR
C22	0160-5790	CAPACITOR
C23	0180-3751	CAPACITOR
C24	0160-6736	CAPACITOR
C25	0180-3751	CAPACITOR
C26	0160-6736	CAPACITOR
C27	0180-3751	CAPACITOR
C28	0160-6096	CAPACITOR
C29	0160-6096	CAPACITOR
C30	0160-5790	CAPACITOR
C31	0180-3744	CAPACITOR
C32	0160-5790	CAPACITOR
C33	0180-3744	CAPACITOR
C34	0160-6096	CAPACITOR
C35	0160-6096	CAPACITOR
C36	0160-5790	CAPACITOR
C37	0160-6734	CAPACITOR
C38	0160-6742	CAPACITOR
C39	0160-6734	CAPACITOR
C40	0160-6734	CAPACITOR
C41	0160-6742	CAPACITOR
C43	0160-6734	CAPACITOR

ITEM	PART NUMBER	DESCRIPTION
C44	0160-6734	CAPACITOR
C45	0160-6734	CAPACITOR
C46	0160-6734	CAPACITOR
C47	0160-5790	CAPACITOR
C48	0160-5790	CAPACITOR
C50	0160-5790	CAPACITOR
C51	0160-5790	CAPACITOR
C52	0160-5790	CAPACITOR
C53	0160-5790	CAPACITOR
C54	0160-5790	CAPACITOR
C55	0160-5790	CAPACITOR
C56	0160-5790	CAPACITOR
C57	0160-5790	CAPACITOR
C58	0160-5790	CAPACITOR
C59	0160-5790	CAPACITOR
C60	0160-5790	CAPACITOR
C61	0160-6734	CAPACITOR
C62	0180-4054	CAPACITOR
C63	0160-6757	CAPACITOR
C64	0180-3975	CAPACITOR
C65	0160-6734	CAPACITOR
C66	0160-6757	CAPACITOR
C67	0160-6734	CAPACITOR
C68	0160-6757	CAPACITOR
C69	0160-6734	CAPACITOR
C70	0160-6734	CAPACITOR
C71	0160-6734	CAPACITOR
C72	0160-6734	CAPACITOR
C73	0160-7136	CAPACITOR
C74	0160-6757	CAPACITOR
C75	0160-6734	CAPACITOR
C76	0160-6734	CAPACITOR
C79	0180-4287	CAPACITOR
C80	0180-4538	CAPACITOR
C98	0160-6734	CAPACITOR
C99	0160-5790	CAPACITOR
C100	0180-3751	CAPACITOR
C101	0160-6734	CAPACITOR
C102	0180-4287	CAPACITOR
C103	0160-6734	CAPACITOR
C104	0160-6734	CAPACITOR
C107	0180-3975	CAPACITOR
C108	0180-4228	CAPACITOR

**Average CCA E4418-60003 Parts List (Continued)**

ITEM	PART NUMBER	DESCRIPTION	ITEM	PART NUMBER	DESCRIPTION
C109	0160-6736	CAPACITOR	R30	0699-2843	RESISTOR
C111	0180-4287	CAPACITOR	R31	0699-1389	RESISTOR
C113	0160-5967	CAPACITOR	R32	0699-1377	RESISTOR
C114	0160-5790	CAPACITOR	R33	0699-1503	RESISTOR
CR1	1901-1227	DIODE	R34	0699-1503	RESISTOR
J18	1252-7463	CONNECTOR	R35	0699-1429	RESISTOR
J20	1252-7463	CONNECTOR	R36	0699-1429	RESISTOR
L1	9140-1109	INDUCTOR	R37	0699-1391	RESISTOR
L3	9140-1113	INDUCTOR	R38	0699-1503	RESISTOR
L4	9100-3922	INDUCTOR	R41	0699-1429	RESISTOR
MP2	0403-0630	EXTRACTOR	R42	0699-1429	RESISTOR
MP3	0403-0026	PLUG	R47	0699-1330	RESISTOR
MP4	7100-1316	SHIELD	R48	0699-1404	RESISTOR
MP13	0403-0630	EXTRACTOR	R49	0699-1406	RESISTOR
P6	1251-7906	CONNECTOR	R50	0699-1401	RESISTOR
Q1	1855-0801	TRANSISTOR	R51	0699-1403	RESISTOR
R1	0699-1344	RESISTOR	R52	0699-1332	RESISTOR
R2	0699-1415	RESISTOR	R53	0699-1318	RESISTOR
R3	0699-1344	RESISTOR	R54	0699-1382	RESISTOR
R4	0699-1415	RESISTOR	R55	0699-1400	RESISTOR
R5	0699-1344	RESISTOR	R56	0699-1330	RESISTOR
R6	0699-1401	RESISTOR	R57	0699-1330	RESISTOR
R7	0699-1400	RESISTOR	R58	0699-1330	RESISTOR
R8	0699-1394	RESISTOR	R59	0699-1330	RESISTOR
R9	0699-1409	RESISTOR	R60	0699-1400	RESISTOR
R10	0699-1388	RESISTOR	R61	0699-1429	RESISTOR
R11	0699-1401	RESISTOR	R62	0699-1429	RESISTOR
R12	0699-2484	RESISTOR	R63	0699-2846	RESISTOR
R13	0699-2484	RESISTOR	R64	0699-1377	RESISTOR
R14	0699-2484	RESISTOR	R65	0699-1391	RESISTOR
R15	0699-2484	RESISTOR	R66	0699-1413	RESISTOR
R17	0699-1391	RESISTOR	R67	0699-1435	RESISTOR
R18	0699-1370	RESISTOR	R68	0699-1318	RESISTOR
R19	0699-1392	RESISTOR	R69	0699-1330	RESISTOR
R20	0699-1443	RESISTOR	R70	1810-1128	RES NETWORK
R22	0699-1327	RESISTOR	R71	1810-1230	RES NETWORK
R23	0699-1391	RESISTOR	R72	0699-1391	RESISTOR
R24	0699-1318	RESISTOR	R73	0699-1391	RESISTOR
R25	0699-1429	RESISTOR	R74	0699-1391	RESISTOR
R26	0699-1429	RESISTOR	R75	1810-1066	RES NETWORK
R27	0699-2489	RESISTOR	R76	0699-1344	RESISTOR
R28	0699-2843	RESISTOR	R77	0699-1318	RESISTOR
R29	0699-2489	RESISTOR	R101	0699-1429	RESISTOR

**Average CCA E4418-60003 Parts List (Continued)**

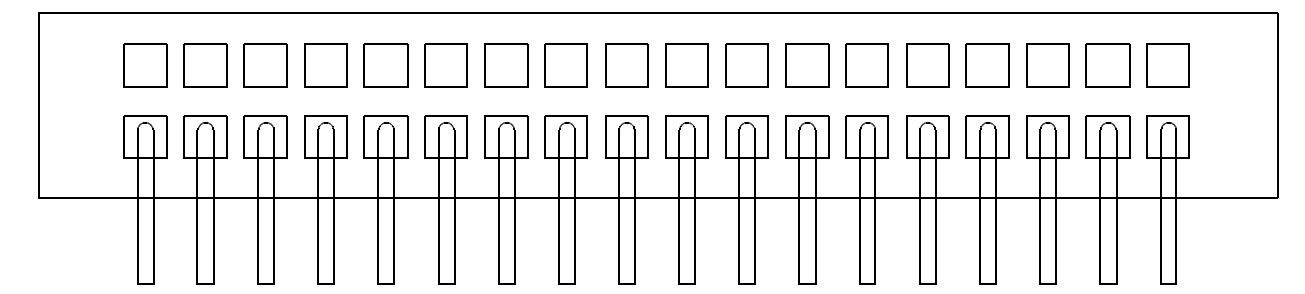
ITEM	PART NUMBER	DESCRIPTION
R102	0699-1429	RESISTOR
R103	0699-1389	RESISTOR
R104	0699-1377	RESISTOR
R110	1810-1139	RES NETWORK
R111	0699-1385	RESISTOR
R112	0699-1423	RESISTOR
R113	0699-1423	RESISTOR
R114	0699-2846	RESISTOR
R115	0699-2825	RESISTOR
R116	0699-2776	RESISTOR
R117	0699-1400	RESISTOR
R118	0699-1400	RESISTOR
R121	0699-1318	RESISTOR
R122	0699-2491	RESISTOR
R123	0699-1391	RESISTOR
R134	0699-1388	RESISTOR
R135	0699-1329	RESISTOR
R138	0699-1382	RESISTOR
R139	0699-1425	RESISTOR
R141	0699-1377	RESISTOR
U1	1826-1862	IC
U2	1827-1821	IC
U3	1826-1862	IC

ITEM	PART NUMBER	DESCRIPTION
U4	1821-0055	IC
U5	1826-3172	IC
U6	1826-1619	IC
U7	1826-1622	IC
U8	1826-3162	IC
U9	1827-1821	IC
U10	1826-1848	IC
U11	1827-1821	IC
U12	1822-1416	IC
U13	E4418-80023	IC
U14	1826-1572	IC
U15	1827-1821	IC
U16	1826-2230	IC
U17	1826-1925	IC
U18	1826-2147	IC
U19	1826-1594	IC
U20	1821-1672	IC
U21	1826-1872	IC
U22	1826-1862	IC
U23	1826-3161	IC
U25	1826-1594	IC
VR3	1902-0947	DIODE

See Table 2 for a complete description and source of supply for the items contained in this assembly.



SYM	REVISIONS		APPROVED		DATE
	F	REVISED	ARTHUR FINLAY		20-JUL-04
	G	REVISED	ARTHUR FINLAY		09-FEB-05



VIEW OF P6 ON SECTION 'A'

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 TOLERANCES: XX.XXX .010  
 XX.XX .02  
 THIRD ANGLE  
 PROJECTION  
 DO NOT SCALE THIS DRAWING

BILLY BORLAND  
 DRAWN BY  
 ARTHUR FINLAY  
 ENGINEER/CHECKER  
 RELEASE TO PROD. DATE  
 SUPERSEDES DWG.

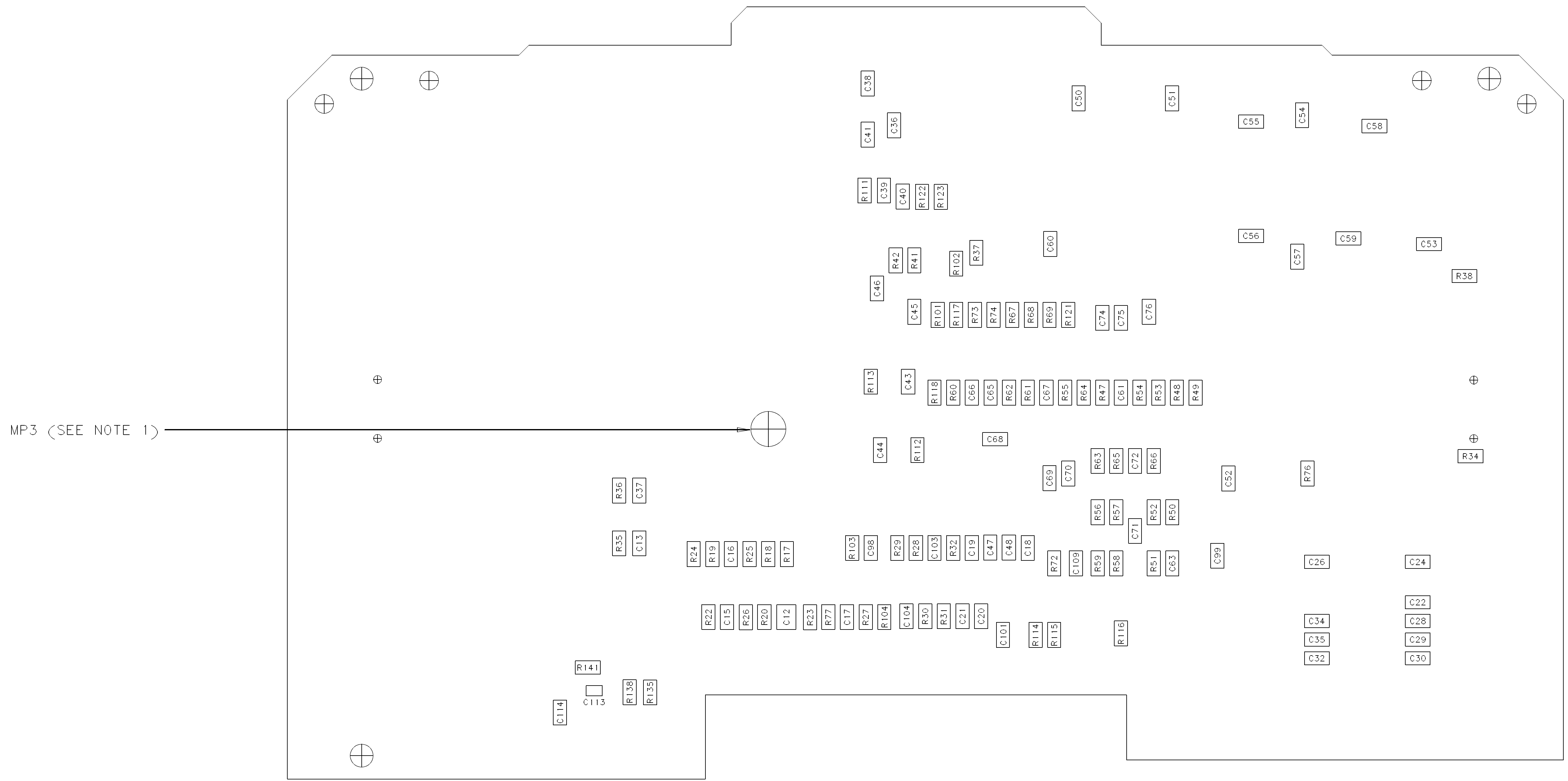
20-JUL-04  
 DATE  
 20-JUL-04  
 DATE  
 DATE

ASSEMBLY DRAWING  
 (SIDE A)  
 PWB SINGLE AVERAGE  
 POWER MODULE  
 FILENAME  
 SCALE NONE  
 SHEET 1 OF 2  
 PART NUMBER  
 D-E4418-60003-2  
 AGILENT TECHNOLOGIES  
 TITLE



SYM	REVISIONS		APPROVED		DATE	
	F	REVISED	ARTHUR FINLAY		2JUL-04	
	G	REVISED	ARTHUR FINLAY		09-FEB-05	

NOTES :-  
1. LOAD MP3 FROM BOTTOM SIDE OF BOARD.



MP3 (SEE NOTE 1)

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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.  
TOLERANCES: XX.XXX .010  
                  XX.XX .02  
THIRD ANGLE PROJECTION  
DO NOT SCALE THIS DRAWING

BILLY BORLAND DRAWN BY	2JUL-04 DATE
ARTHUR FINLAY ENGINEER/CHECKER	2JUL-04 DATE
RELEASE TO PROD.	DATE
SUPERSEDES DWG.	

ASSEMBLY DRAWING  
(SIDE B)  
PWB SINGLE AVERAGE  
POWER MODULE

FILENAME	AGILENT TECHNOLOGIES
SCALE	NONE
SHEET 2 OF 2	E4418-60003 PART NUMBER
	D-E4418-60003-2

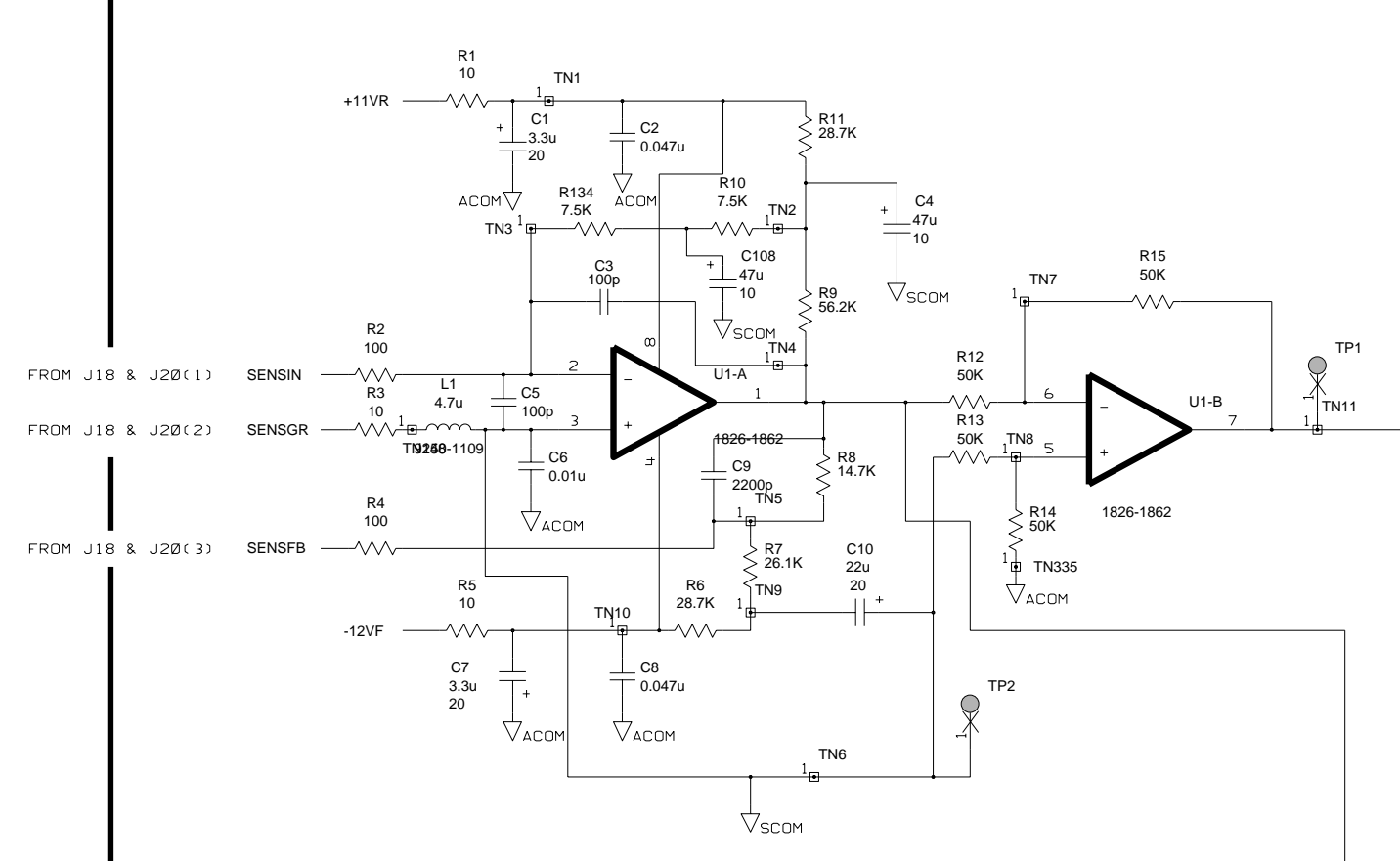
TITLE



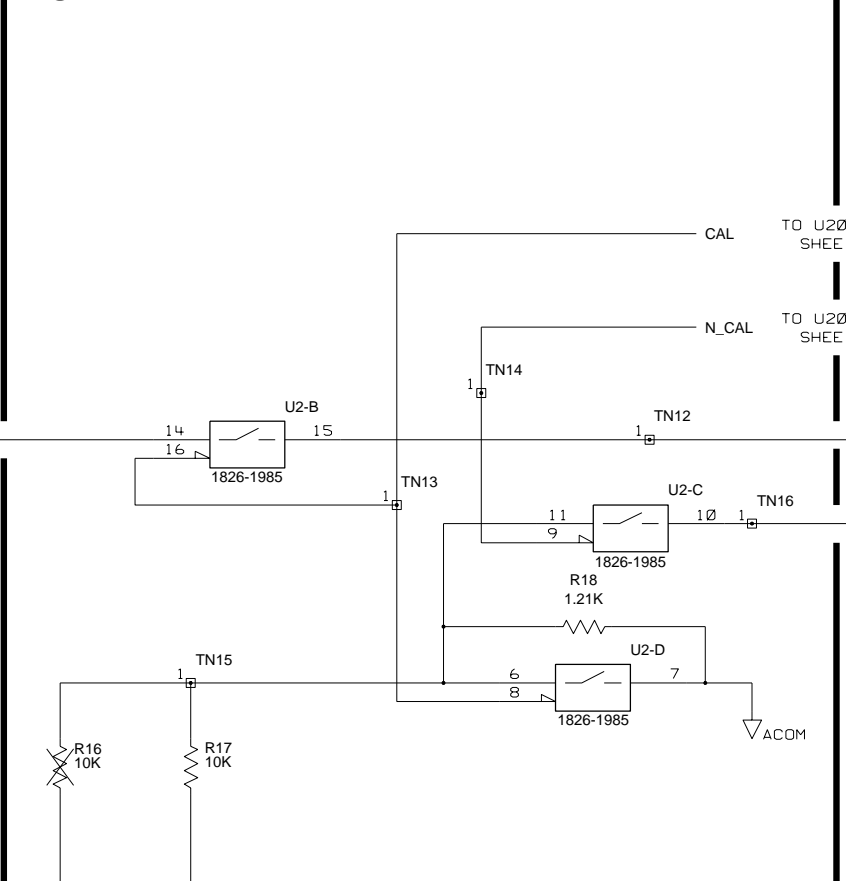


REV	INFORMATION	APPROVED	DATE
G	AS PER PCO 72688	-	06MAR02
H	REVISED	Arthur Finlay	22JUL04
I	REVISED	Arthur Finlay	11FEB05

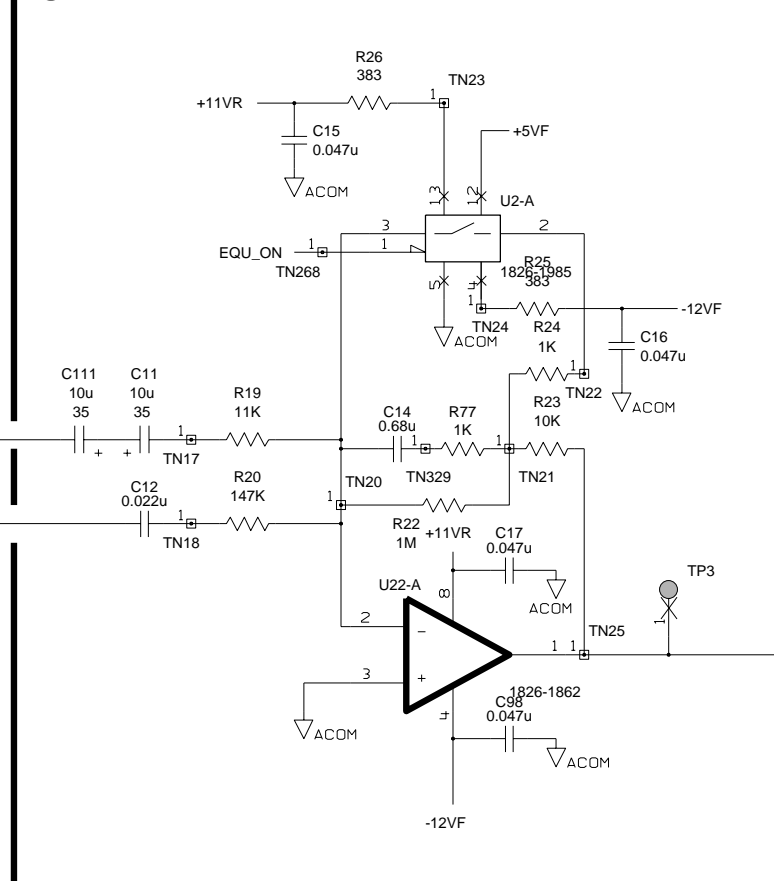
(A) INPUT AMPLIFIER



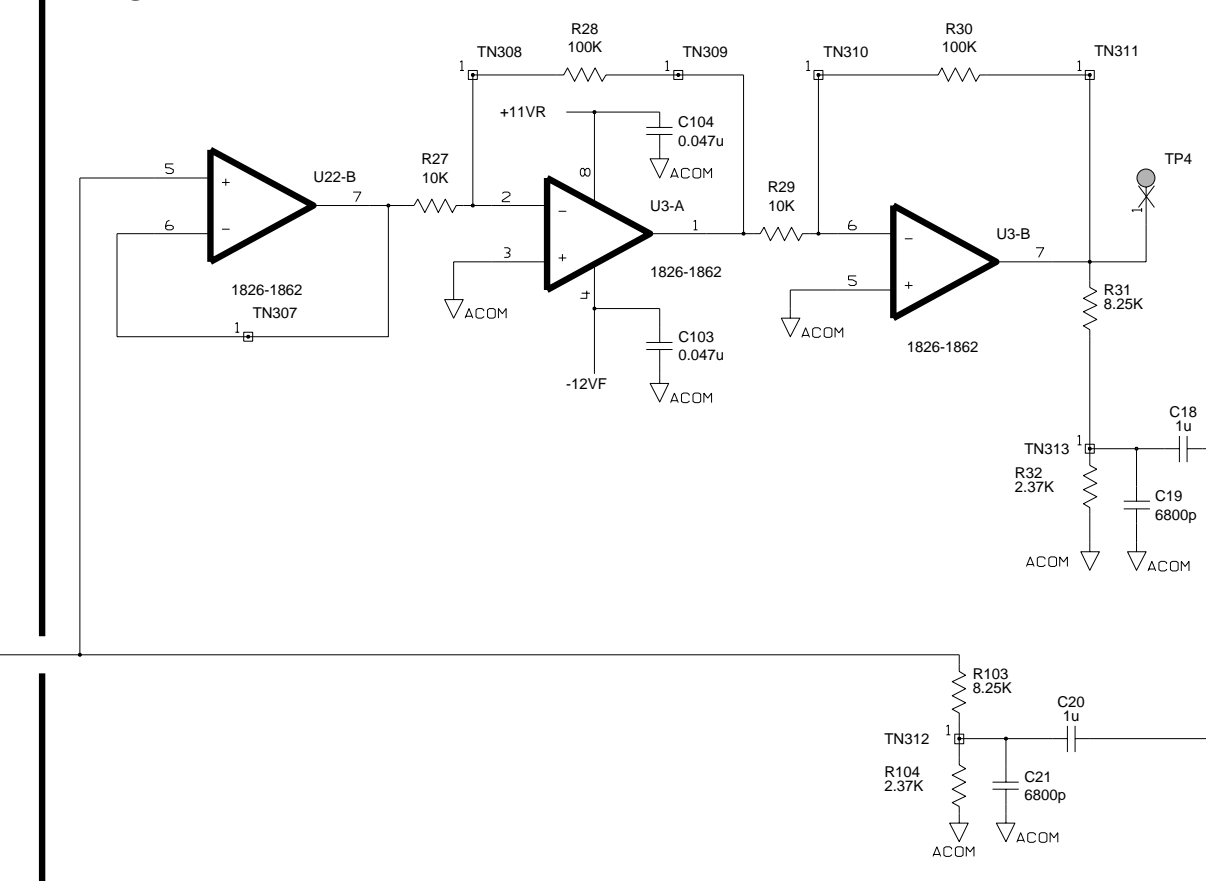
(B) RANGE CAL INJECT



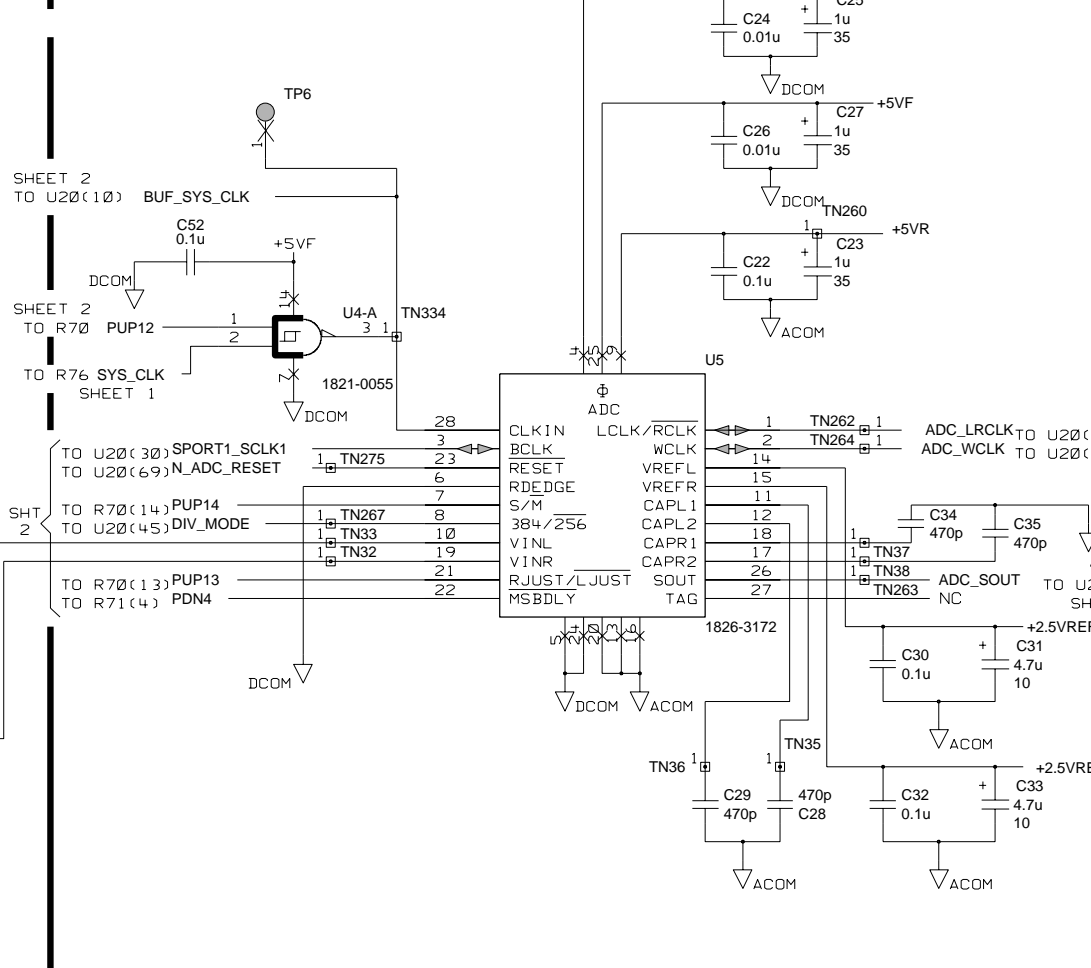
(C) EQUALIZER



(D) SIGNAL SPLITTER & AMPLIFIER

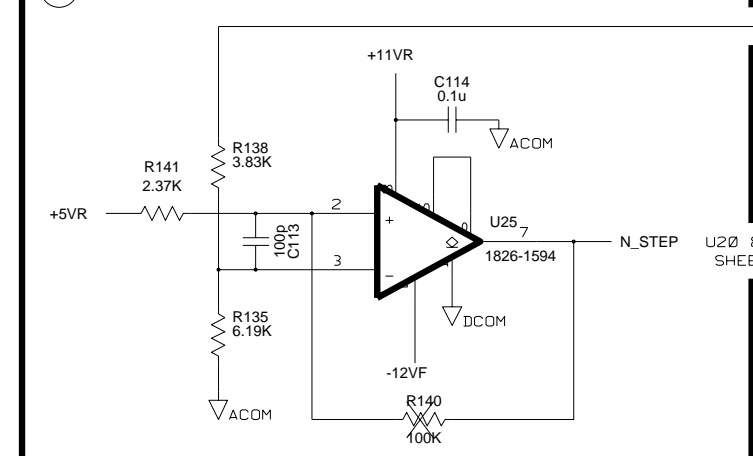


(E) MEASUREMENT ADC

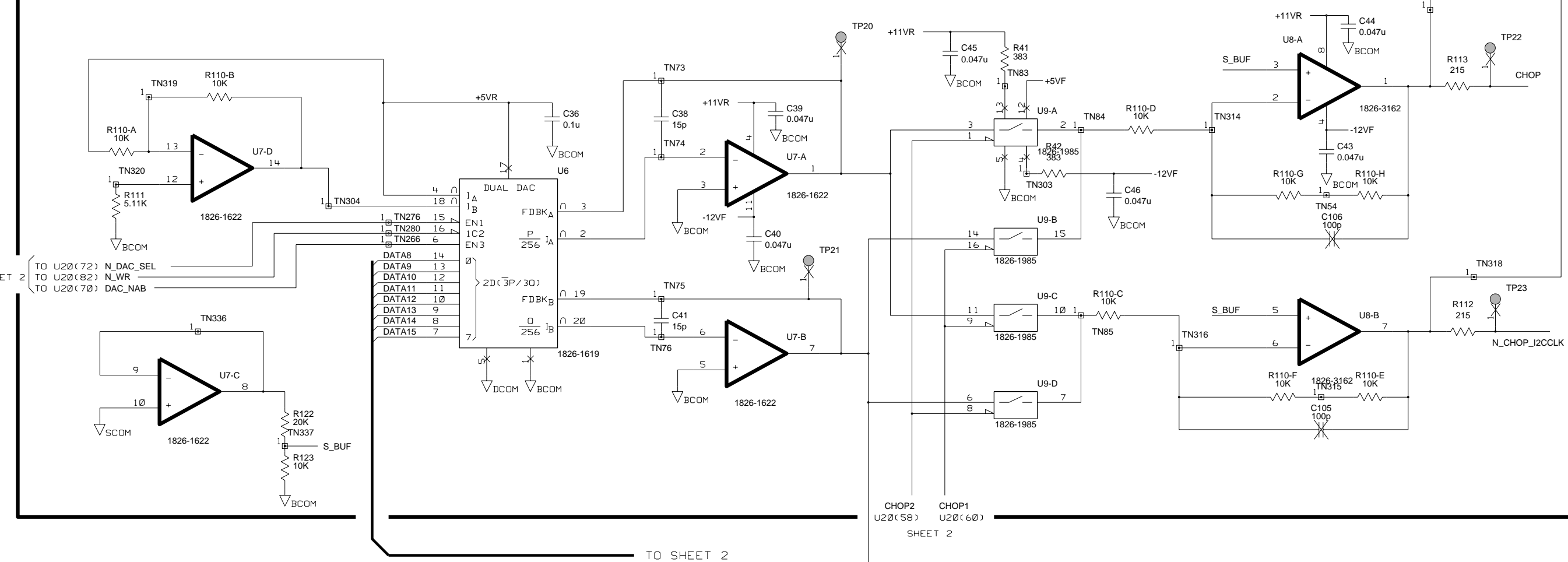


- PE-1 1 -12VDS1
- PE-2 2
- PE-3 3 TN1
- PE-4 4
- PE-5 5
- PE-6 6
- PE-7 7
- PE-8 8
- PE-9 9
- PE-10 10
- PE-11 11
- PE-12 12
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- PE-36 36

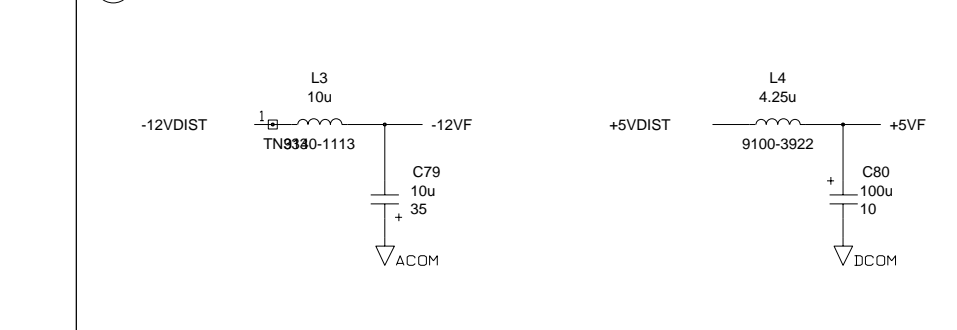
(A) POWER STEP DETECT



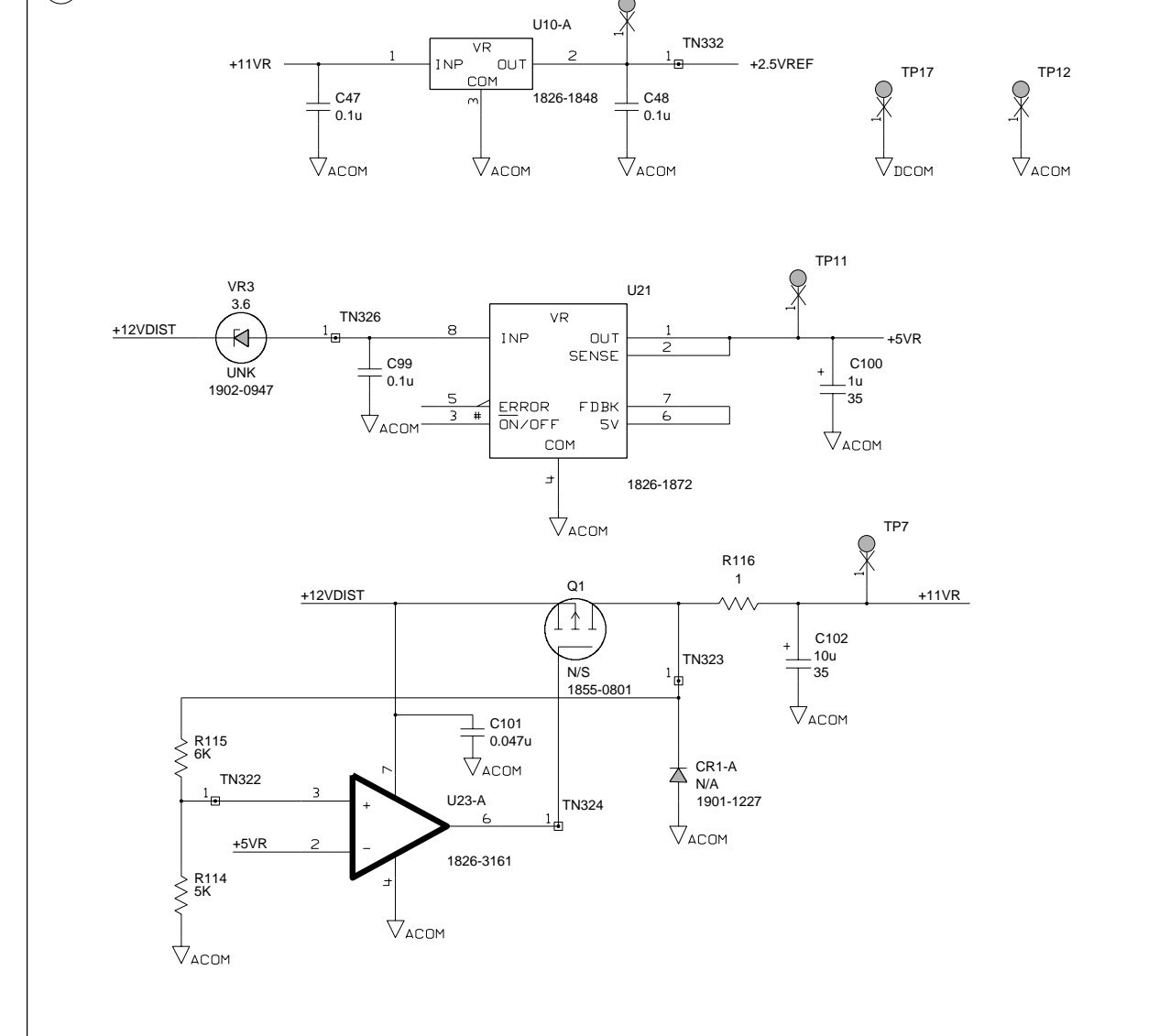
(F) PROGRAMMABLE CHOPPER DRIVER



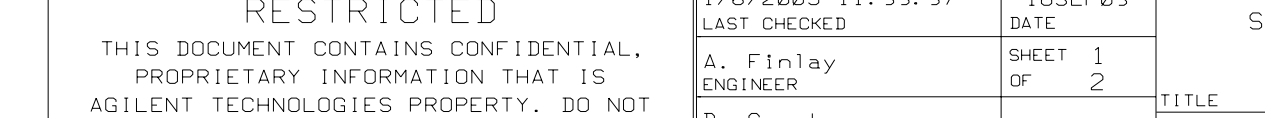
(G) SUPPLY FILTERING



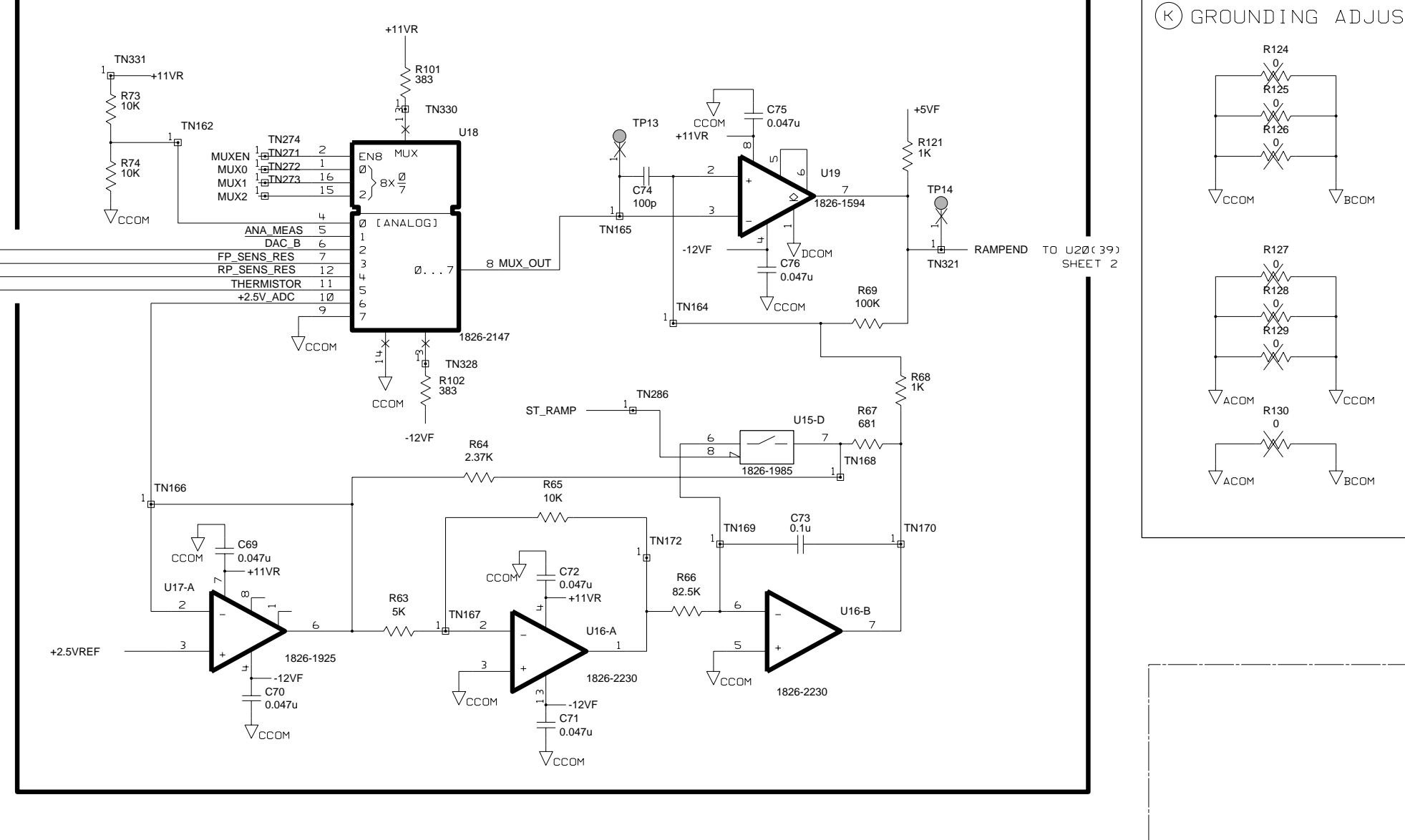
(H) REGULATORS



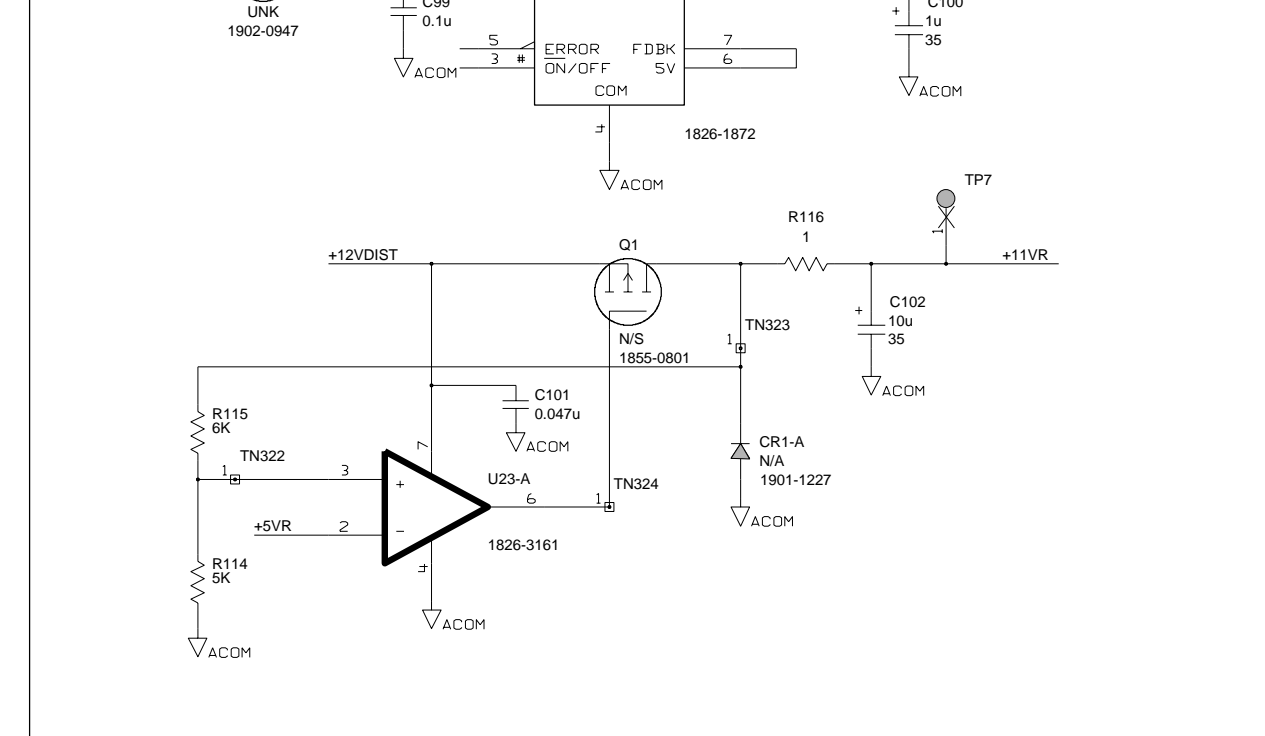
(I) 1-2C, MOUNT RESISTOR & THERMISTOR INTERFACE



(J) AUX ADC

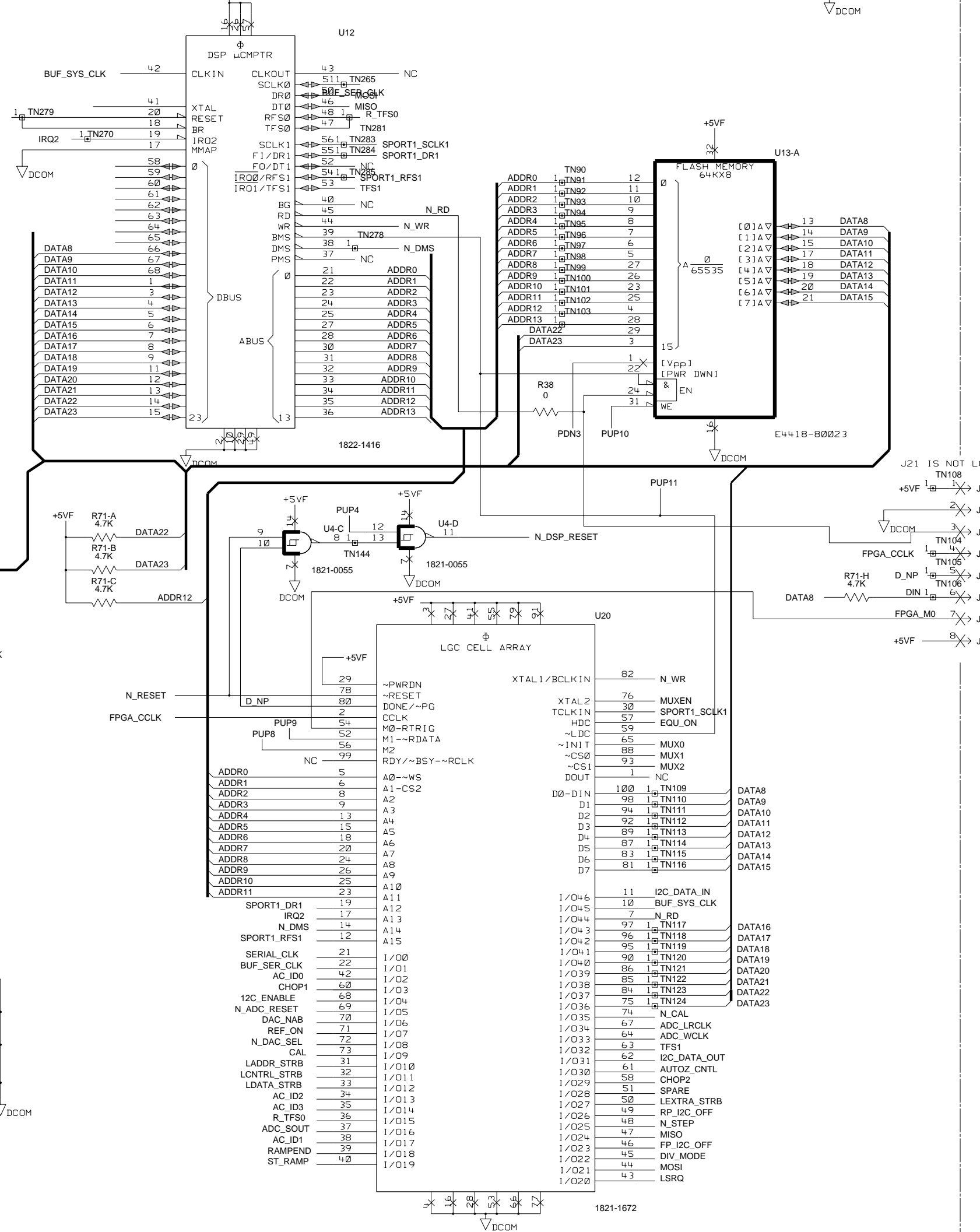
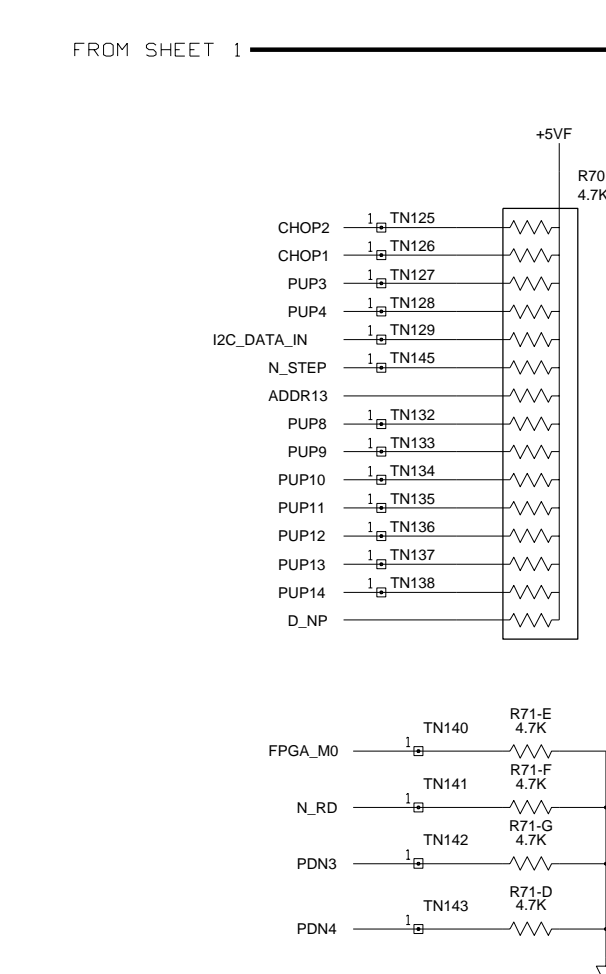
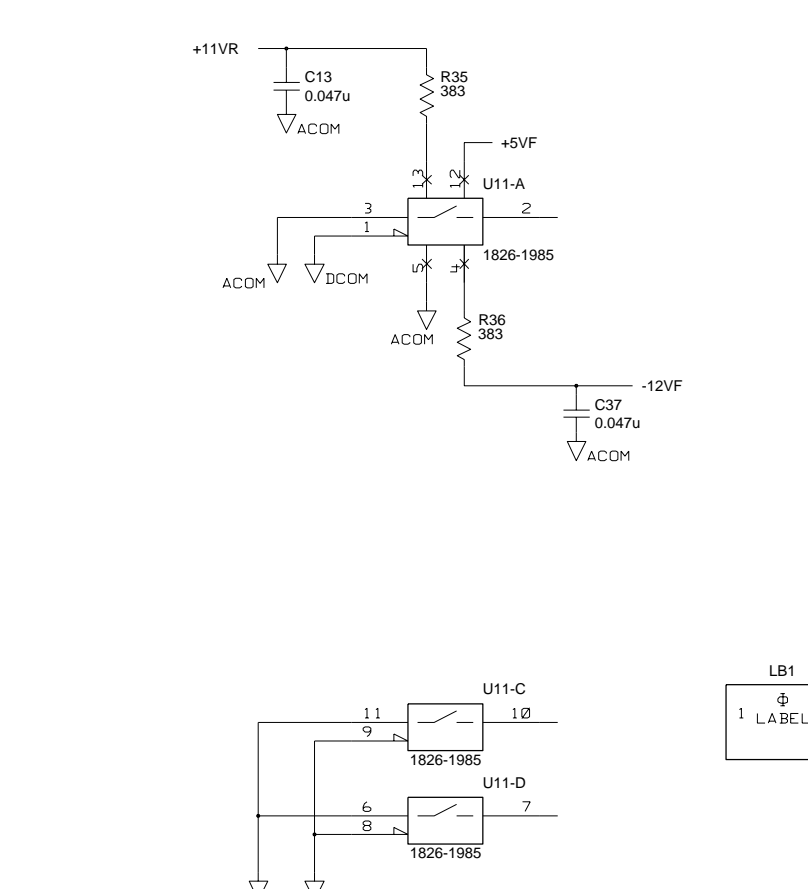
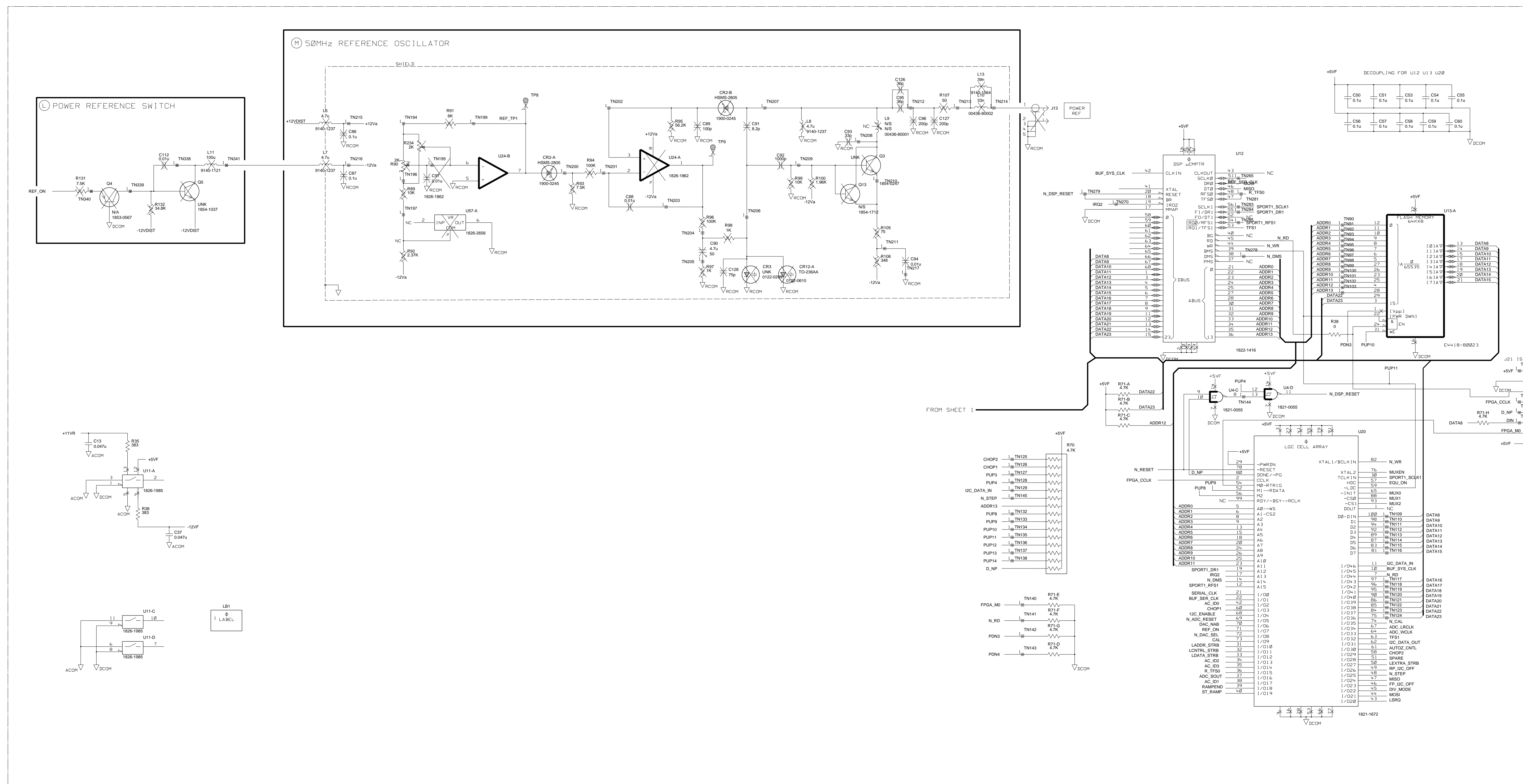


(K) GROUNDING ADJUST



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DRAWN BY		B. Grant	SIZE D	TITLE	E4418-6003
PART NAME		DESIGNSHIP/E4418-6003-182V100	sheet1	PART NUMBER	E4418-6003-1
ASSY. REV #		BRD. REV #	PAGE 1 OF 2	DWG. NO.	D-E4418-6003-1

REV	INFORMATION	APPROVED	DATE
G	AS PER PCO 72688	-	06MAR02
H	REVISED	Arthur Finlay	22JUL04
I	REVISED	Arthur Finlay	11FEB05



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