

**Agilent E1476A  
Component Level  
Information**

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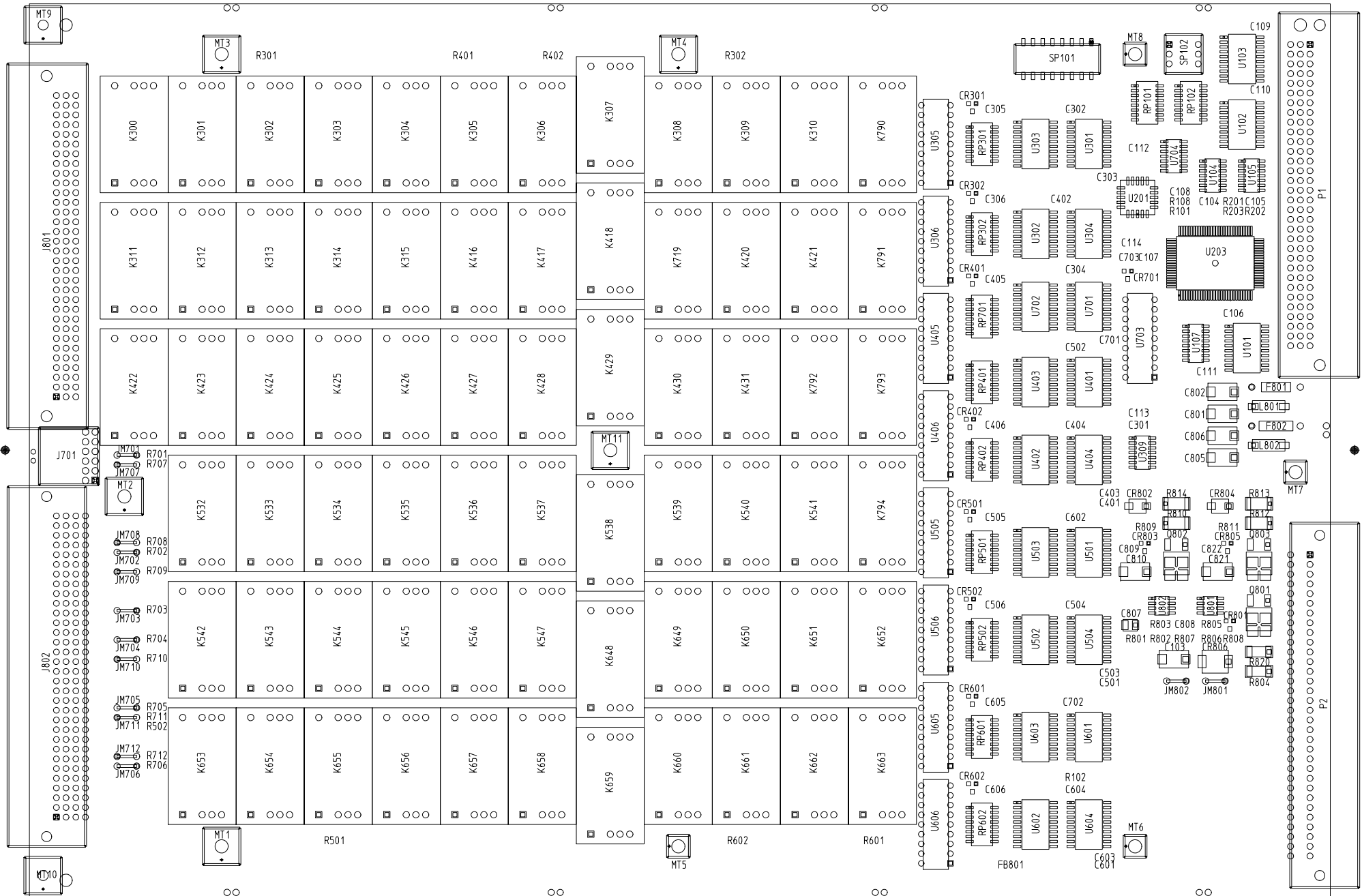
# E1476A 64 Channel 3-Wire Multiplexer Component Level Information

Information in this packet applies to the following assemblies:

1. E1476-66501 PC Assembly
2. E1476-66510 PC Assembly (Volts/Ohms/Temperature Terminal Card)
3. E1476-66512 PC Assembly (DIN96-SCSI Adaptor for E1476/E1586 Combination)

The following is included in this packet:

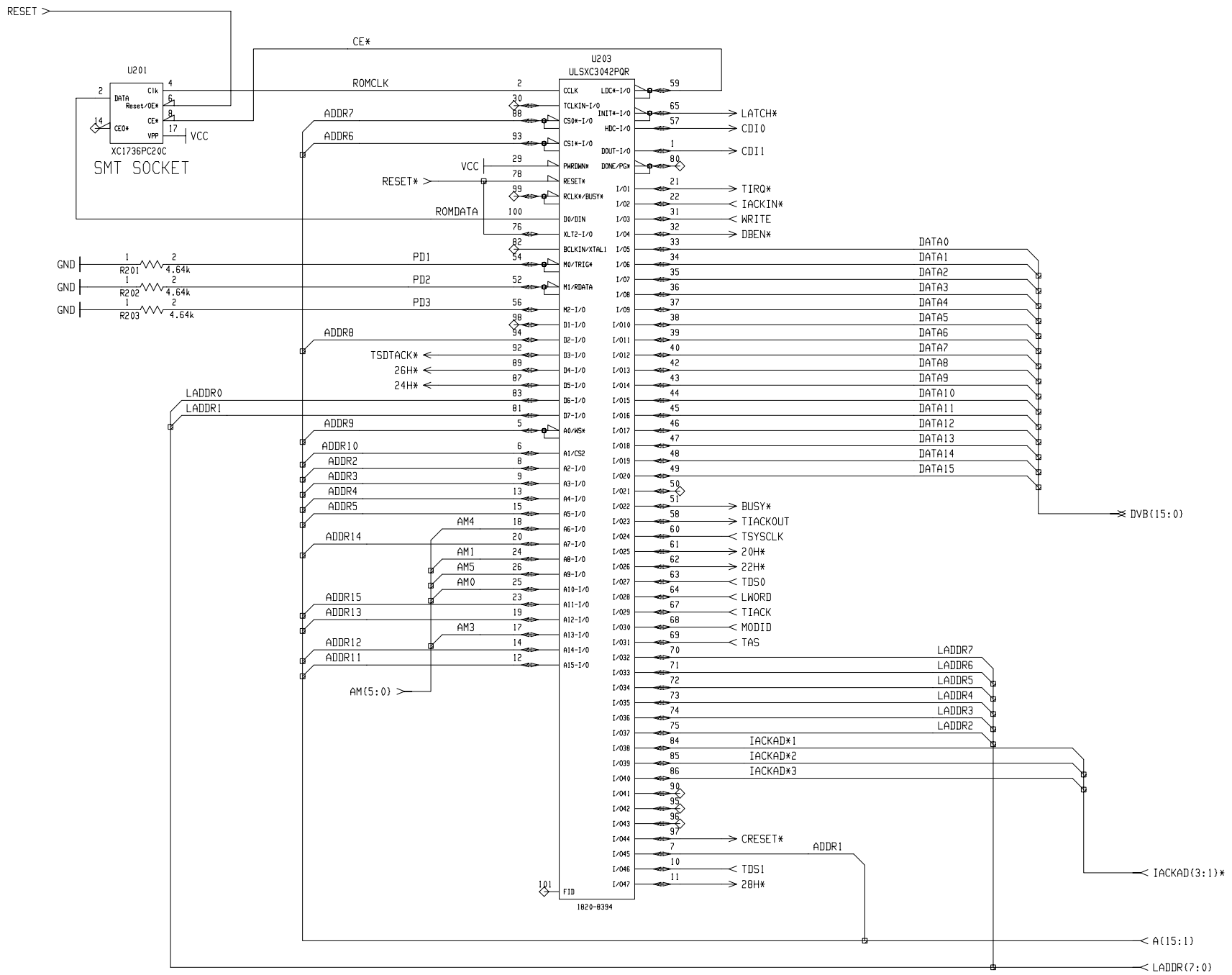
1. Component locators
2. Schematics
3. Parts lists with Agilent and manufacturer's part numbers

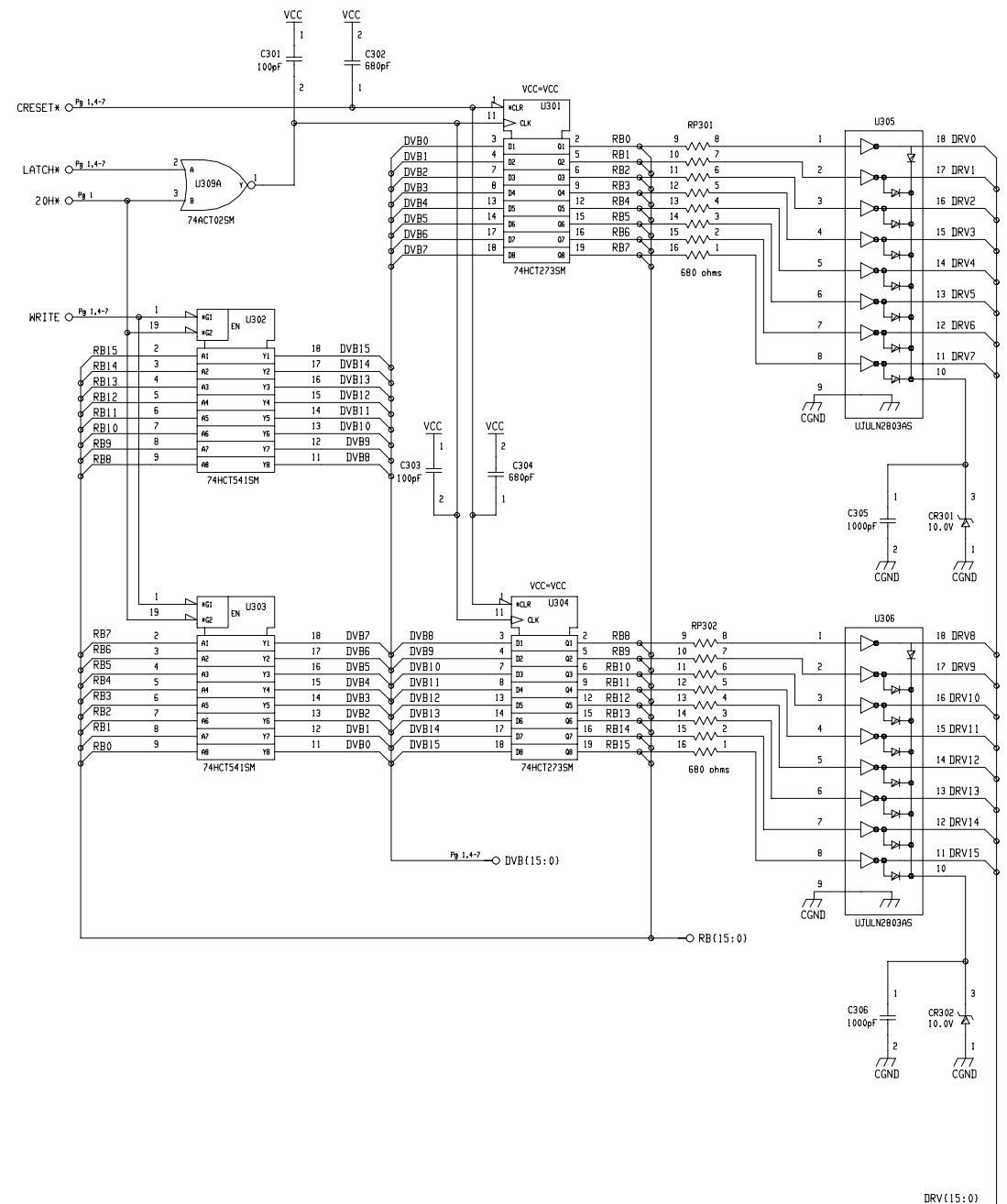
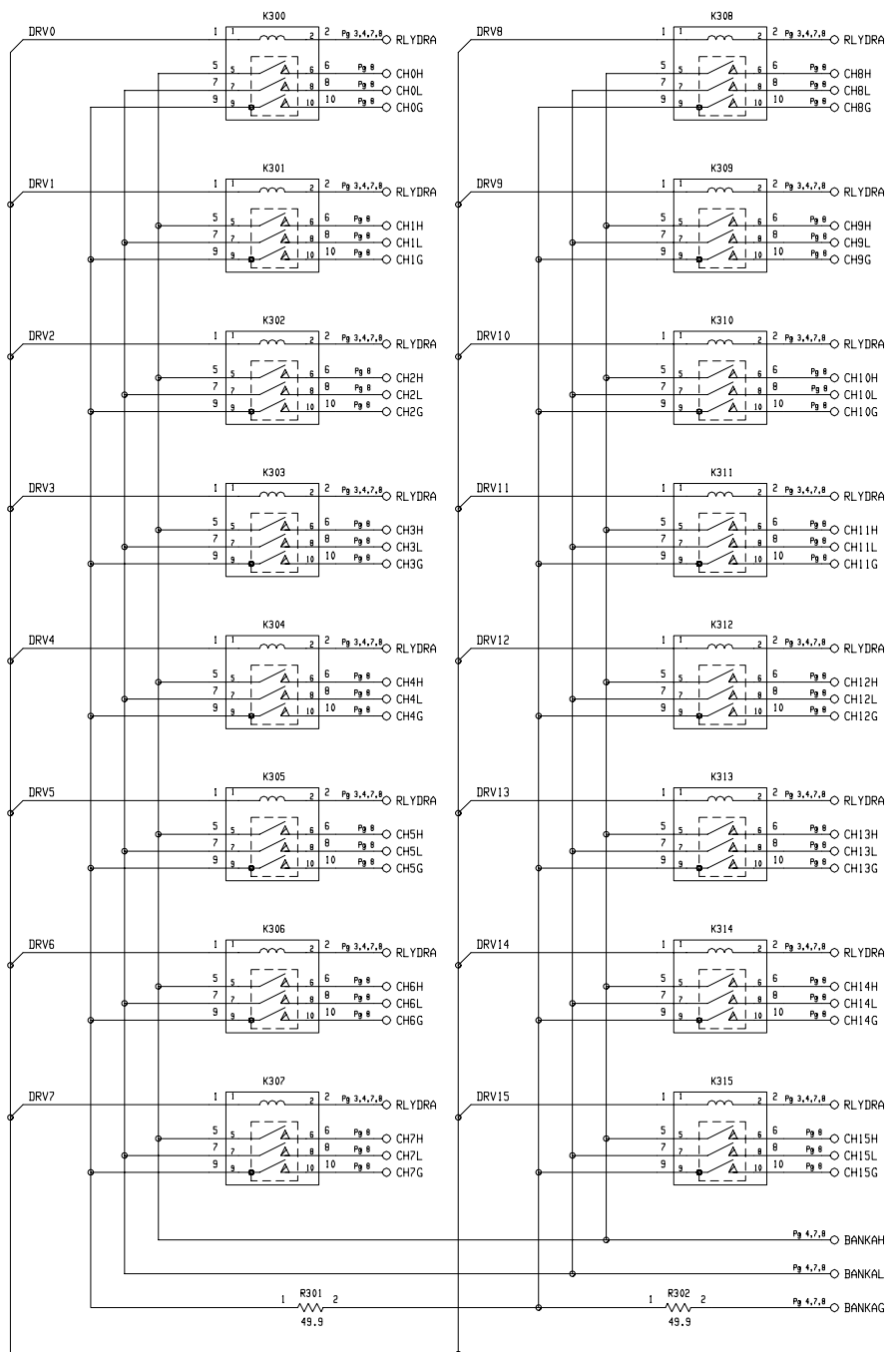


**Agilent E1476A  
64 Channel 3-Wire Multiplexer**

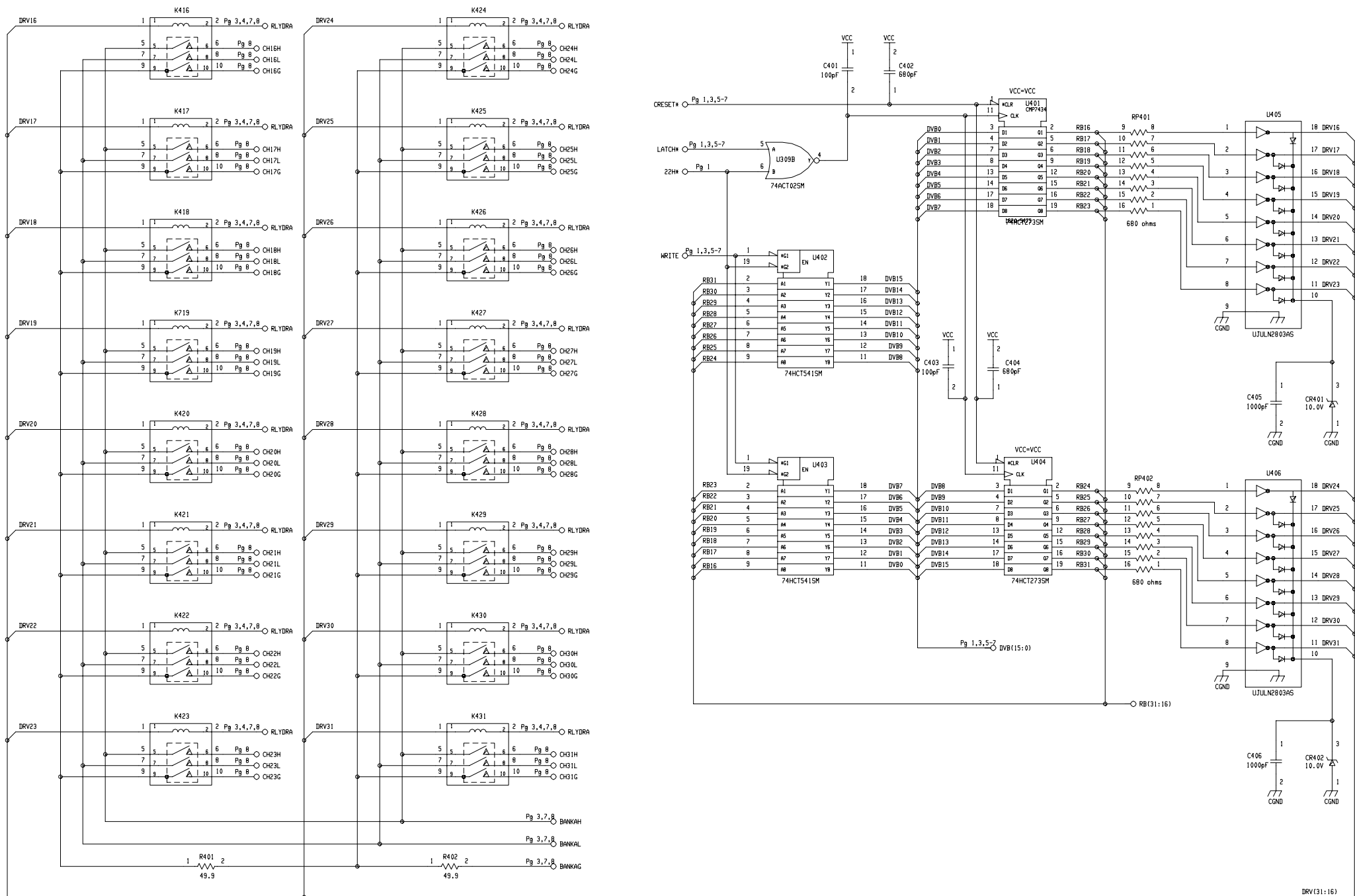
**E1476-66501 Component Locator**





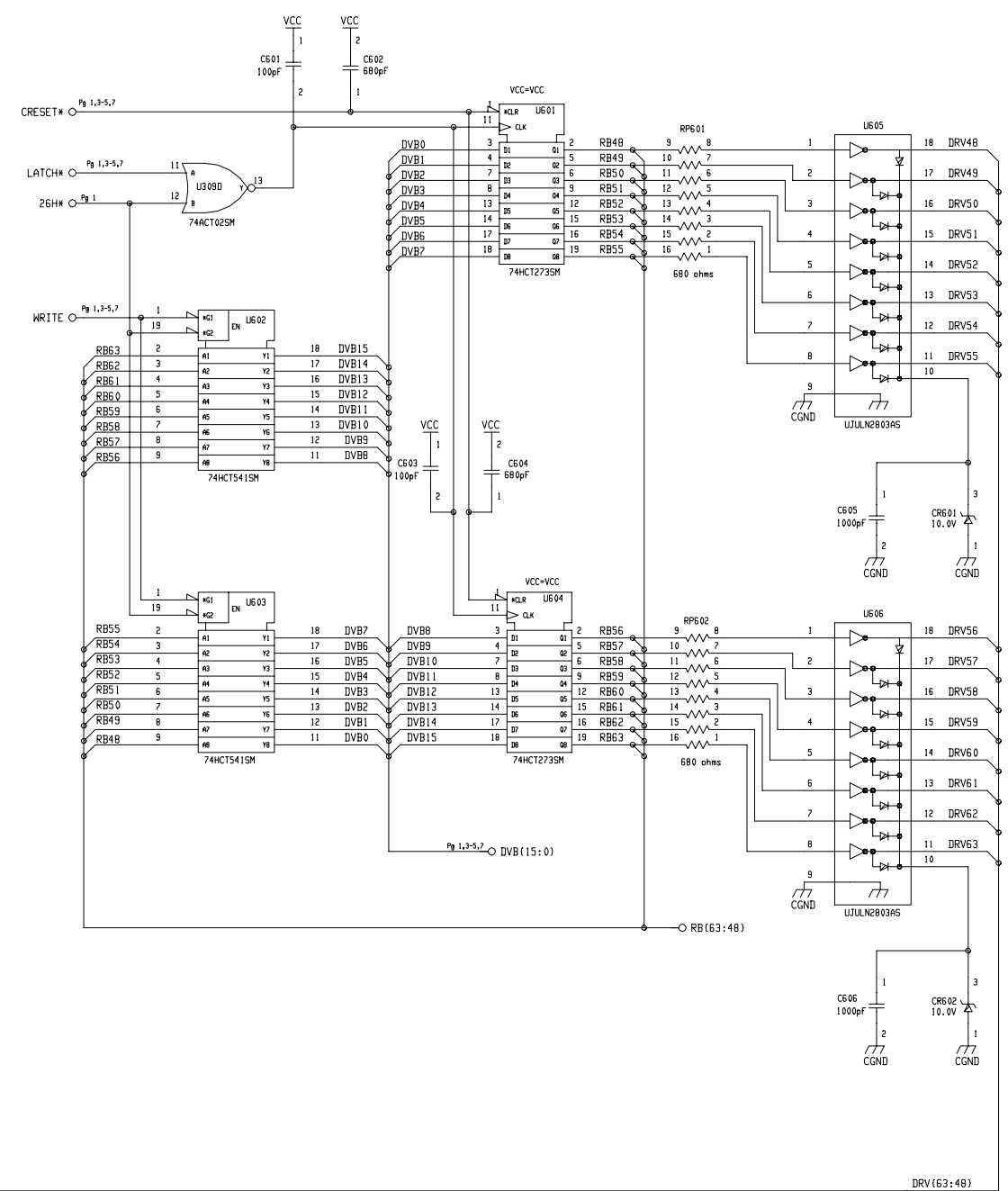
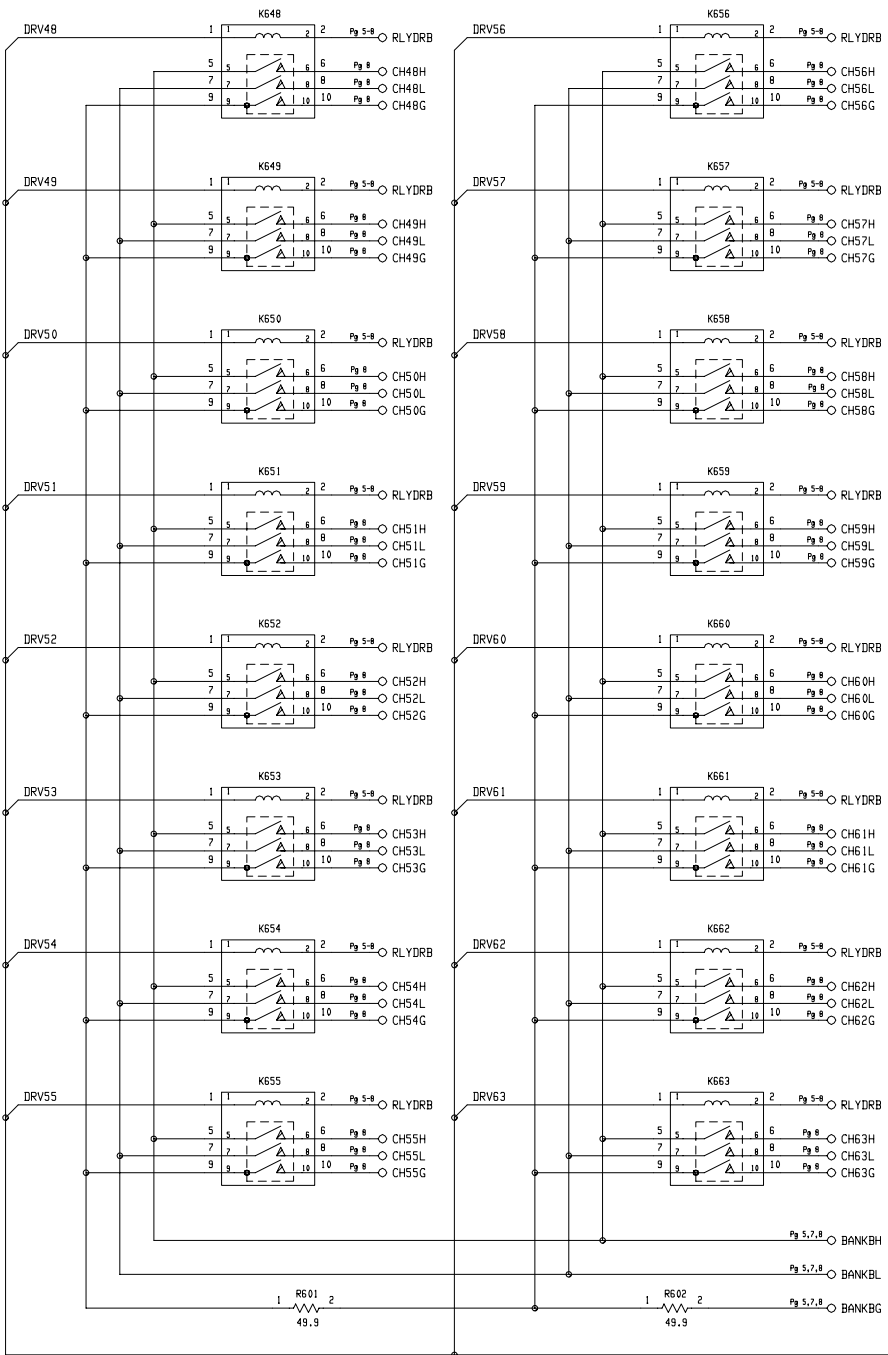


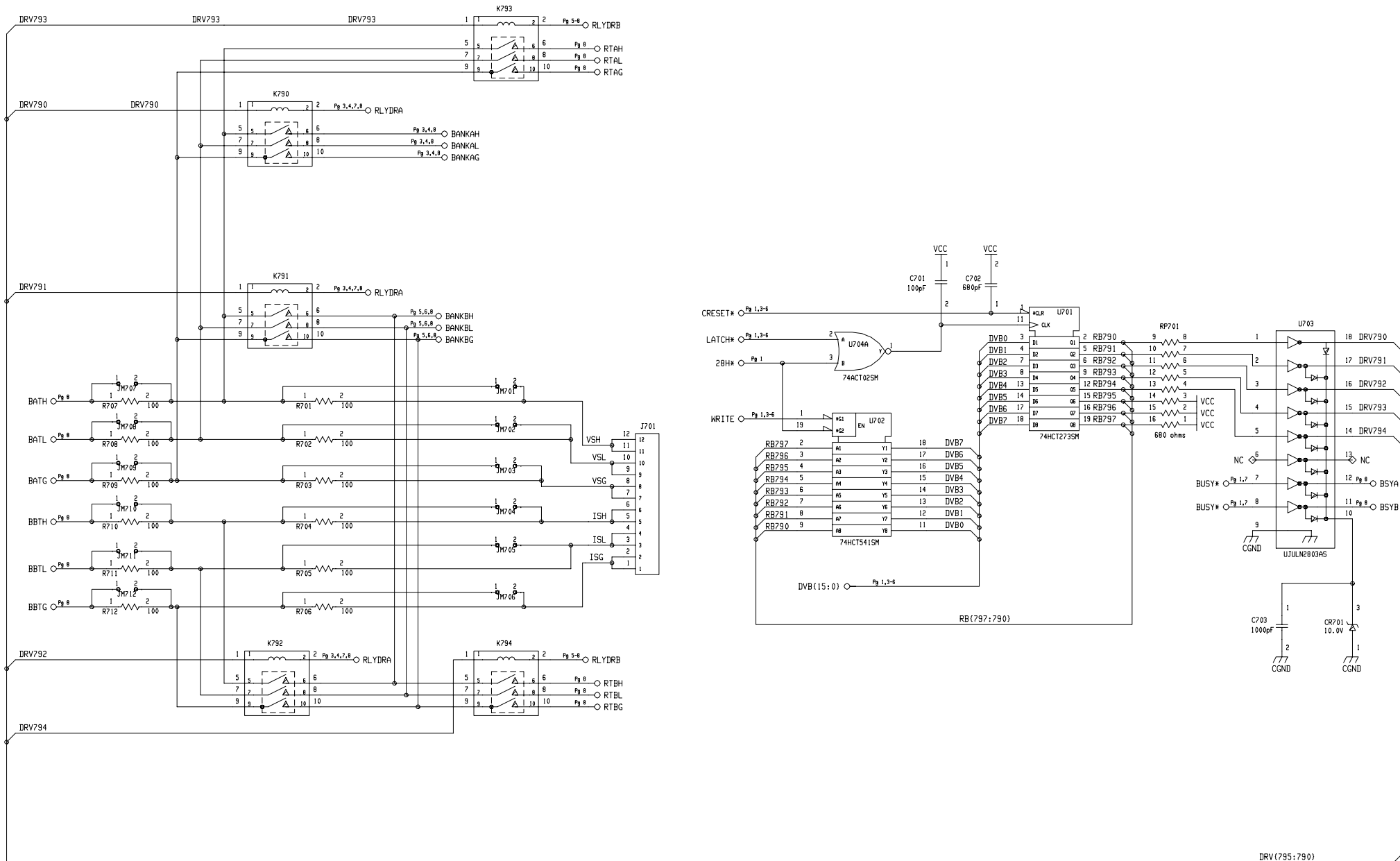
**Agilent E1476A**  
**64 Channel 3-Wire Multiplexer**  
**E1476-66501**  
**Channels 0 - 15**  
**Page 3 of 8**





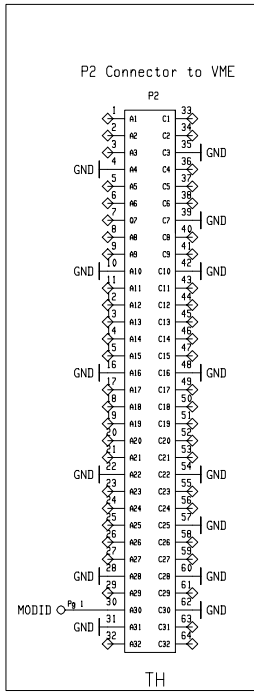
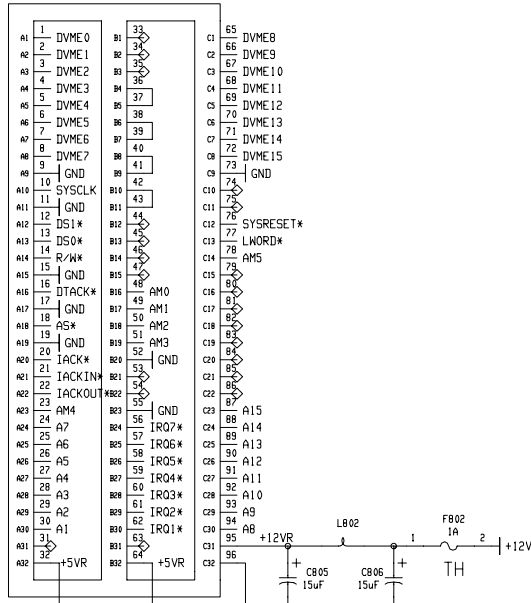




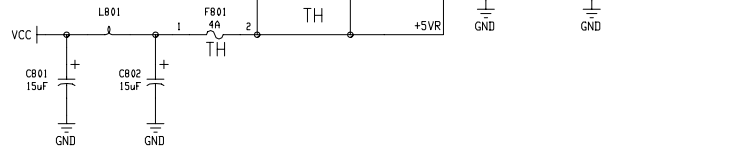
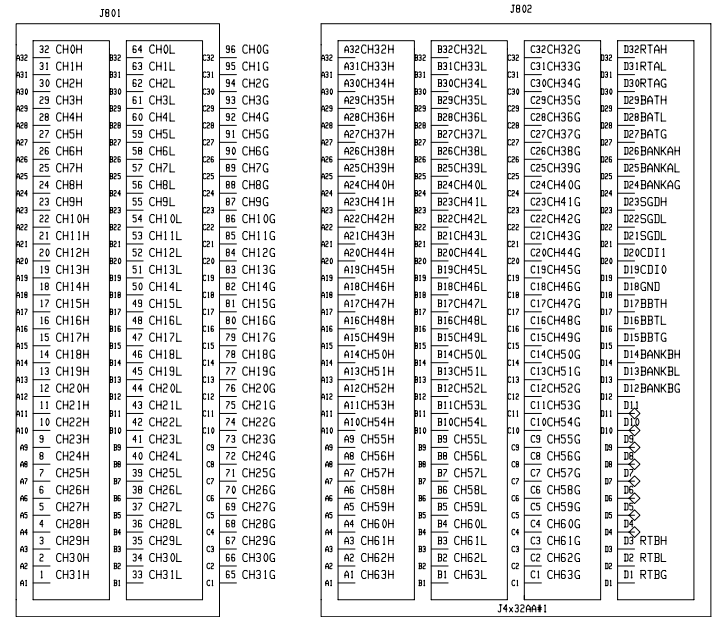


P1 Connector to VME

P1



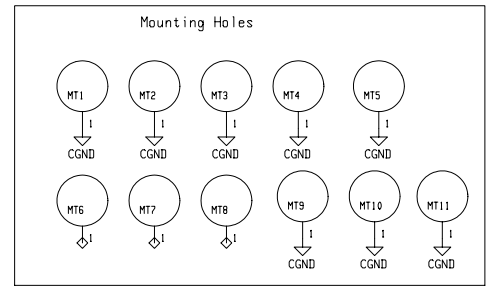
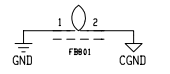
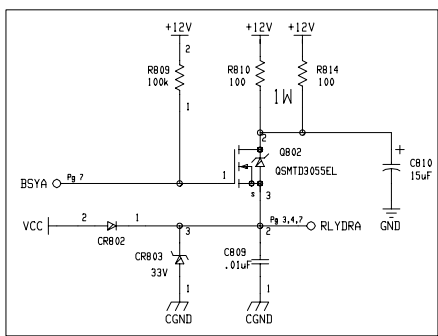
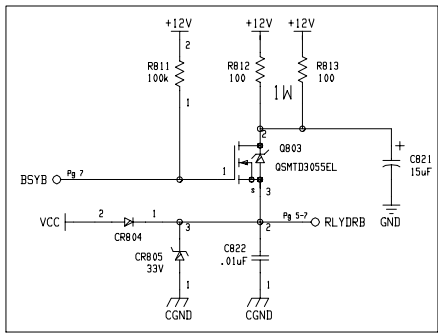
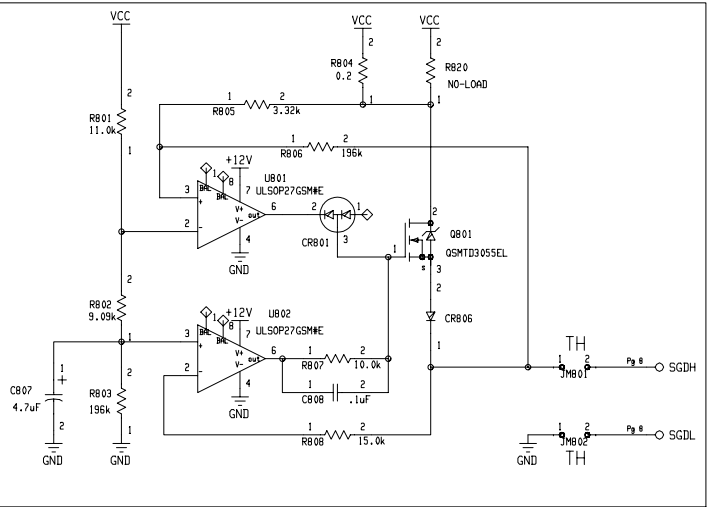
Connectors to Terminal Block



TH

TH

14x32AA1 MALE CONNECTOR



Agilent E1476A  
64 Channel 3-Wire Multiplexer  
E1476-66501  
Connectors and Mounting Holes  
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## E1476-66501 Parts List

Reference Designator	Qty	Agilent Part Number	Description	MPN	Manufacturer
BAG1	1	9222-1368	BAG-STAT-SHLD POLYM/MET ALY/POLYM FLM	1915 8000 9222-1368 9222-1368 9222-1368 9222-1368 STRATO GREY	3M SIMCO FORCEFIELD STATIC MANAGEMENT SPECIALTY ENTERPRISES STATIC CONTROL COMPONENTS SWIFTMODE BAY PACKAGING
C103	1	0180-4116	CAP-FXD 22uF +-20PCT 20V TA	TAJD226M020 293D226X0020D2E3 ESVD1D226M SK2-1D226M-RD0	AVX VISHAY NEC TOKIN ELNA
C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C808	12	0160-6497	CAP-FXD 0.1uF +-10pct 50 V CER X7R	12065C104KAT A 2238 581 15649 C1206C104K5RAC C3216X7R1H104KT GRM319R71H104KA01D VJ1206Y104KXAMT	AVX YAGEO KEMET ELECTRONICS TDK MURATA MANUFACTURING VISHAY
C301, C303, C401, C403, C501, C503, C601, C603, C701	9	0160-5967	CAP-FXD 100pF +-5pct 50 V CER C0G	08055A101JAT A C0805C101J5GAC C2012COG1H101J GRM2165C1H101JA01D VJ0805A101JXAMT	AVX KEMET ELECTRONICS TDK MURATA MANUFACTURING VISHAY
C302, C304, C402, C404, C502, C504, C602, C604, C702	9	0160-5949	CAP-FXD 680pF +-5pct 50 V CER C0G	08055A681JATA C0805C681J5GAC C2012COG1H681J GRM2165C1H681JA01D	AVX KEMET ELECTRONICS TDK MURATA MANUFACTURING

## E1476-66501 Parts List

Reference Designator	Qty	Agilent Part Number	Description	MPN	Manufacturer
C305, C306, C405, C406, C505, C506, C605, C606, C703	9	0160-5947	CAP-FXD 1000pF +-10pct 50 V CER X7R	08055C102KAT A C0805C102K5RAC C2012X7R1H102K GRM216R71H102KA01D	AVX KEMET ELECTRONICS TDK MURATA MANUFACTURING
C801, C802, C805, C806, C810, C821	6	0180-3922	CAP-FXD 15uF +-20PCT 20V TA	TAJD156M020 NRD156M20R12	AVX NEC ELECTRONICS
C807	1	0180-3744	CAP-FXD 4.7uF +-20PCT 10V TA	TAJB475M010 293D475X0010B2E3 ESVB21A475M SK-1A475M-RB T491B475M010AS	AVX VISHAY NEC ELECTRONICS ELNA KEMET ELECTRONICS
C809, C822	2	0160-5945	CAP-FXD 0.01uF +-10pct 50 V CER X7R	08055C103KAT A 223858016627 C0805C103K5RAC C2012X7R1H103K GRM216R71H103KA01J VJ0805Y103KXAMT	AVX YAGEO KEMET ELECTRONICS TDK MURATA MANUFACTURING VISHAY
CR301, CR302, CR401, CR402, CR501, CR502, CR601, CR602, CR701	9	1902-1544	DIODE-ZNR 10V 5PCT TO-236(SOT-23) PD=.35W	BZX84C10 BZX84C10LT1G BZX84C10	PHILIPS ON SEMICONDUCTOR NXP
CR801	1	1906-0291	DIODE-DUAL 70V 100MA T0-236AA	BAV99 BAV99 BAV99LT1G BAV99____X_ BAV99	PHILIPS FAIRCHILD SEMICONDUCTOR ON SEMICONDUCTOR INFINEON TECHNOLOGIES NXP
CR802, CR804	2	1901-1335	DIODE-PWR RECT 400V 1A 50NS	MURS140T3G	ON SEMICONDUCTOR
CR803, CR805	2	1902-1648	DIODE-ZNR 33V 5pct TO-236 (SOT-23) PD=.3W	BZX84-C33 BZX84-C33	PHILIPS NXP
CR806	1	1901-1375	DIODE-PWR RECT 400V 3A 75NS	MURS340T3G	ON SEMICONDUCTOR
F801	1	2110-0712	FUSE-SUBMINIATURE 4A 125V NTD AX	0251004.	LITTELFUSE

## E1476-66501 Parts List

Reference Designator	Qty	Agilent Part Number	Description	MPN	Manufacturer
F802	1	2110-0665	FUSE-SUBMINIATURE 1A 125V NTD AX UL-LS	0251001.	LITTELFUSE
FB801	1	9170-1445	CORE-SHIELDING BEAD	HF70ACB-321611	TDK
J701	1	1252-0776	CONN-POST TYPE .100-PIN-SPCG-MTG-END	5-146309-6	TYCO ELECTRONICS AMP
J801, P1	2	1252-1596	CONN-POST TYPE 2.54-PIN-SPCG-MTG-END	10-8557-096-002-025 536010-5 DIN-96CPC-SRI-TR	KYOCERA TYCO ELECTRONICS AMP 3M
J802	1	1252-6031	CONN-POST TYPE 2.54-PIN-SPCG-MTG-END	913437	ERNI-ELEKTRO-APPARATE
K300-K431, K532-K663, K719, K790-K794	69	0490-1674	RELAY-REED	3600-0002	COTO WABASH
L801, L802	2	9170-1463	CORE-SHIELDING BEAD	4330-030-36301 2743021447	FERROXCUBE USA FAIR RITE PRODUCTS
LBL1	1	9320-6241	LBL-PG-PTR; .625-IN-WD X .25-IN-LG	9320-6241	BRADY
LBL2	1	7121-5729	LBL-LNE-PTR; 1.5-IN-WD X .25-IN-LG	THT-45-457-10	BRADY
P2	1	1252-4743	CONN-POST TYPE 2.54-PIN-SPCG-MTG-END	5536011-5 10-8557-096-002-026	TYCO ELECTRONICS AMP KYOCERA
PCB1	1	E1476-26501	BLANK PCB	E1476-26501	AGILENT TECHNOLOGIES
Q801, Q802, Q803	3	5188-2553	LTB FOR 1855-0800		
	1	1855-0800	TRANSISTOR MOSFET N-CHAN E-MODE SI TC	NTD3055L104G	ON SEMICONDUCTOR
R101	1	0699-1437	RESISTOR 825 +-1pct .125W TKF TC=0+-100	CRCW1206825RFKE_ RK73H2BT_8250F MCR18__F8250 232272468251	VISHAY KOA ROHM YAGEO
R102, R201, R202, R203	4	0699-1384	RESISTOR 4.64K +-1pct .125W TKF TC=0+-100	CRCW12064K64FKE_ RK73H2BT_4641F MCR18__F4641 232272464642L	VISHAY KOA ROHM YAGEO
R108, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712	13	0699-1415	RESISTOR 100 +-1pct .125W TKF TC=0+-100	CRCW1206100RFKE_ RK73H2BT_1000F MCR18__F1000 232272461001L	VISHAY KOA ROHM YAGEO

## E1476-66501 Parts List

Reference Designator	Qty	Agilent Part Number	Description	MPN	Manufacturer
R301, R302, R401, R402, R501, R502, R601, R602	8	0699-2103	RESISTOR 49.9 +-1pct .125W TKF TC=0+-100	CRCW120649R9FKE_ RK73H2BT_49R9F MCR18___F49R9 232272464999	VISHAY KOA ROHM YAGEO
R801	1	0699-1392	RESISTOR 11K +-1pct .125W TKF TC=0+-100	CRCW120611K0FKE_ RK73H2BT_1102F MCR18___F1102 232272461103	VISHAY KOA ROHM YAGEO
R802	1	0699-1390	RESISTOR 9.09K +-1pct .125W TKF TC=0+-100	CRCW12069K09FKE_ RK73H2BT_9091F MCR18___F9091 232272469092	VISHAY KOA ROHM YAGEO
R803, R806	2	0699-1332	RESISTOR 196K +-1pct .125W TKF TC=0+-100	CRCW1206196KFKE_ RK73H2BT_1963F MCR18___F1963 232272461964	VISHAY KOA ROHM YAGEO
R804	1	0811-3841	RESISTOR .2 +-1pct 1W PWI TC=0+-100	WSC-10R21%	VISHAY
R805	1	0699-2431	RESISTOR 3.32K +-1pct .125W TKF TC=0+-100	CRCW12063K32FKE_ RK73H2BT_3321F MCR18___F3321 232272463322	VISHAY KOA ROHM YAGEO
R807	1	0699-1391	RESISTOR 10K +-1pct .125W TKF TC=0+-100	CRCW120610K0FKE_ RK73H2BT_1002F MCR18___F1002 232272461003L	VISHAY KOA ROHM YAGEO
R808	1	0699-1546	RESISTOR 15K +-1pct .125W TKF TC=0+-100	CRCW120615K0FKE_ RK73H2BT_1502F MCR18___F1502 232272461503	VISHAY KOA ROHM YAGEO

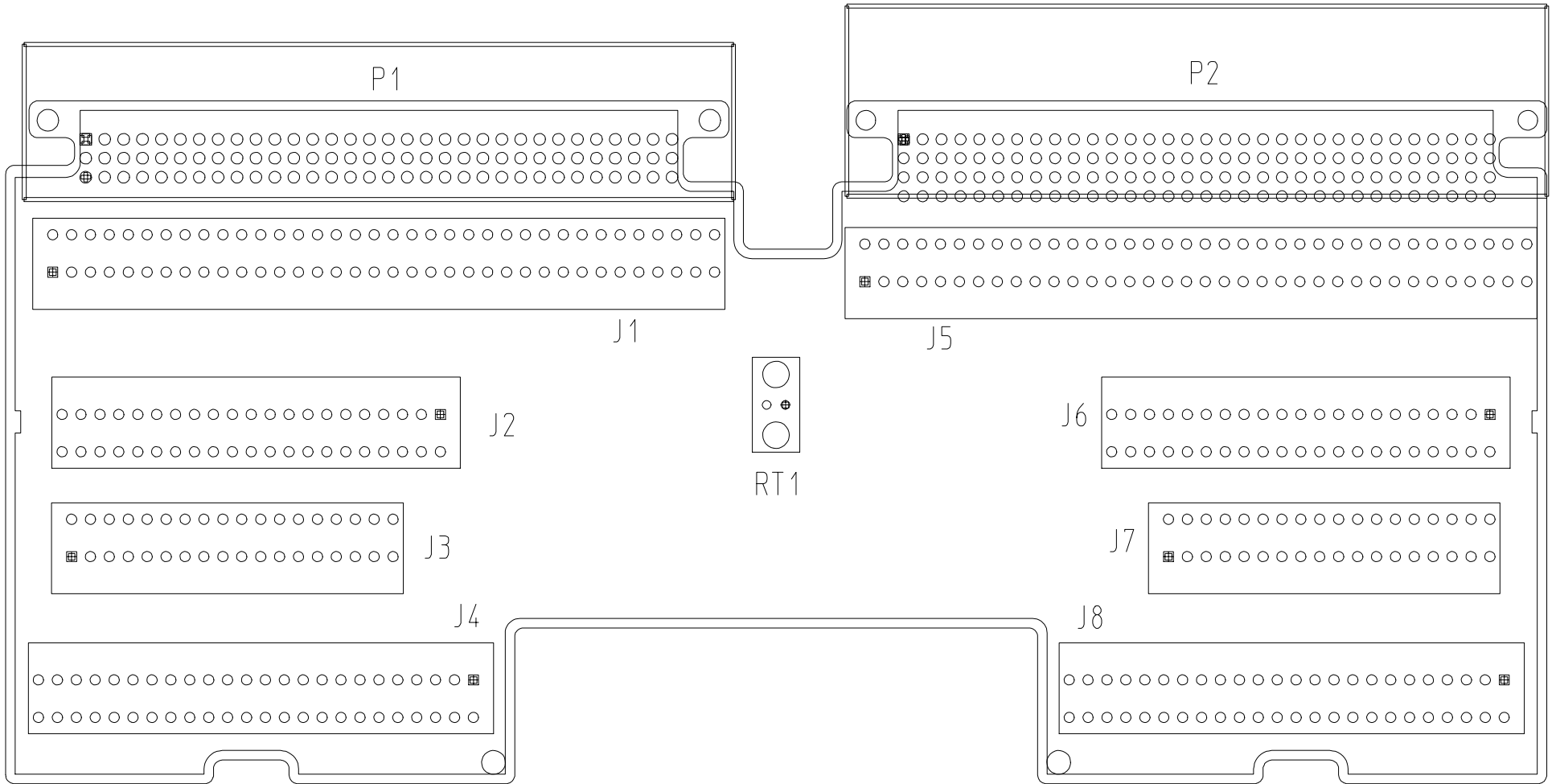
## E1476-66501 Parts List

Reference Designator	Qty	Agilent Part Number	Description	MPN	Manufacturer
R809, R811	2	0699-1330	RESISTOR 100K +-1pct .125W TKF TC=0+-100	CRCW1206100KFKE_ RK73H2BT_1003F MCR18___F1003 232272461004L	VISHAY KOA ROHM YAGEO
R810, R812, R813, R814	4	0699-3407	RES-FXD 100 OHM +-5PCT 1W TC 0+-200 2512	CRCW2512100RJNE_ RK73B3AT_101J MCR100___J101	VISHAY KOA ROHM
RP101, RP102	2	1810-1128	NET-RES 15 4.7K OHM 16-PIN	767161472G SOMC16-01-472G 4816P-2-472LF	CTS VISHAY BOURNS
RP301, RP302, RP401, RP402, RP501, RP502, RP601, RP602, RP701	9	1810-1427	NET-RES 8 680.0 OHM 16-PIN	4816P-001-681 767-163R-680 SOMC1603-681G	BOURNS CTS VISHAY
RVT1, RVT2, RVT3, RVT4, RVT5, RVT6, RVT7, RVT8	8	0361-1393	RIVET-BLIND DR-PIN UNIV-HD .098DIA	1189-2510	TEXTRON
SP101	1	3101-3142	SWITCH-DIP SURF-MT-SL SPST 0.025A 24VDC	90YY2008SGWT 11P4248	GRAYHILL CTS
SP102	1	3101-3279	SWITCH-DIP ROTARY 8POSOCT 0.03A 30VDC	94HAC08T	GRAYHILL
U101	1	1820-7291	IC DRVR TTL/F BUS OCTL	74F757D SN74AS757DW 74F757D	PHILIPS TEXAS INSTRUMENTS NXP
U102, U103	2	1820-7672	IC TRANSCEIVER TTL/ALS BUS OCTL	SN74ALS245A-1DW	TEXAS INSTRUMENTS
U104, U105	2	1820-7312	IC SCHMITT-TRIG CMOS/ACT INV HEX	MC74ACT14DR2G SN74ACT14D	ON SEMICONDUCTOR TEXAS INSTRUMENTS
U107	1	1820-5941	IC DCDR-DEMUXR CMOS/ACT BIN 8-TO-1-LINE	MC74ACT138DG 74ACT138SCX	ON SEMICONDUCTOR FAIRCHILD SEMICONDUCTOR
U201	1	E1476-88801	PRGMD 1818-5452 OTP	E1476-88801	MEMEC UNITED
	1	1818-5452	IC 36K-BIT OTP CMOS	XC1736EPC20C	XILINX
U203	1	1822-0202	IC-PLD FPGA-SRAM UNPRGMD CMOS 3042		



## E1476-66501 Parts List

Reference Designator	Qty	Agilent Part Number	Description	MPN	Manufacturer
U301, U304, U401, U404, U501, U504, U601, U604, U701	9	1820-5475	IC FF CMOS/HCT D-TYPE POS-EDGE-TRIG CO	74HCT273D 74HCT273D	PHILIPS NXP
U302, U303, U402, U403, U502, U503, U602, U603, U702	9	1820-5476	IC DRVR CMOS/HCT LINE OCTL	74HCT541D 74HCT541D	PHILIPS NXP
U305, U306, U405, U406, U505, U506, U605, U606, U703	9	1858-0069	TRANSISTOR ARRAY 18-LEAD PLSTC DIP	ULN2803A	STMICROELECTRONICS
U309, U704	2	1820-8728	IC GATE CMOS/ACT NOR QUAD 2-INP	MC74ACT02DR2G 74ACT02SCX.	ON SEMICONDUCTOR FAIRCHILD SEMICONDUCTOR
U801, U802	2	1826-1925	IC OP AMP LOW-NOISE SINGLE 8 PIN	OPA27GU/___E4 OP27GSZ	TEXAS INSTRUMENTS ANALOG DEVICES



COMPONENT LOCATOR TOP SIDE VIEW E1476-66510

**Agilent E1476A**  
**64 Channel 3-Wire Multiplexer**  
**E1476-66510**

**Volts/Ohms/Temperature**  
**Terminal Card Component Locator**

P1

A1	1	CH0H	B1	33	CH0L	C1	65	CH0G
A2	2	CH1H	B2	34	CH1L	C2	66	CH1G
A3	3	CH2H	B3	35	CH2L	C3	67	CH2G
A4	4	CH3H	B4	36	CH3L	C4	68	CH3G
A5	5	CH4H	B5	37	CH4L	C5	69	CH4G
A6	6	CH5H	B6	38	CH5L	C6	70	CH5G
A7	7	CH6H	B7	39	CH6L	C7	71	CH6G
A8	8	CH7H	B8	40	CH7L	C8	72	CH7G
A9	9	CH8H	B9	41	CH8L	C9	73	CH8G
A10	10	CH9H	B10	42	CH9L	C10	74	CH9G
A11	11	CH10H	B11	43	CH10L	C11	75	CH10G
A12	12	CH11H	B12	44	CH11L	C12	76	CH11G
A13	13	CH12H	B13	45	CH12L	C13	77	CH12G
A14	14	CH13H	B14	46	CH13L	C14	78	CH13G
A15	15	CH14H	B15	47	CH14L	C15	79	CH14G
A16	16	CH15H	B16	48	CH15L	C16	80	CH15G
A17	17	CH16H	B17	49	CH16L	C17	81	CH16G
A18	18	CH17H	B18	50	CH17L	C18	82	CH17G
A19	19	CH18H	B19	51	CH18L	C19	83	CH18G
A20	20	CH19H	B20	52	CH19L	C20	84	CH19G
A21	21	CH20H	B21	53	CH20L	C21	85	CH20G
A22	22	CH21H	B22	54	CH21L	C22	86	CH21G
A23	23	CH22H	B23	55	CH22L	C23	87	CH22G
A24	24	CH23H	B24	56	CH23L	C24	88	CH23G
A25	25	CH24H	B25	57	CH24L	C25	89	CH24G
A26	26	CH25H	B26	58	CH25L	C26	90	CH25G
A27	27	CH26H	B27	59	CH26L	C27	91	CH26G
A28	28	CH27H	B28	60	CH27L	C28	92	CH27G
A29	29	CH28H	B29	61	CH28L	C29	93	CH28G
A30	30	CH29H	B30	62	CH29L	C30	94	CH29G
A31	31	CH30H	B31	63	CH30L	C31	95	CH30G
A32	32	CH31H	B32	64	CH31L	C32	96	CH31G

J1

CH0H	1
CH0L	3
CH0G	5
CH1H	7
CH1L	9
CH1G	11
CH2H	13
CH2L	15
CH2G	17
CH3H	19
CH3L	21
CH3G	23
CH4H	25
CH4L	27
CH4G	29
CH5H	31
CH5L	33
CH5G	35
CH6H	37
CH6L	39
CH6G	41
CH7H	43
CH7L	45
CH7G	47
CH8H	49
CH8L	51
CH8G	53
CH9H	55
CH9L	57
CH9G	59
CH10H	61
CH10L	63
CH10G	65
CH11H	67
CH11L	69
CH11G	71

J2

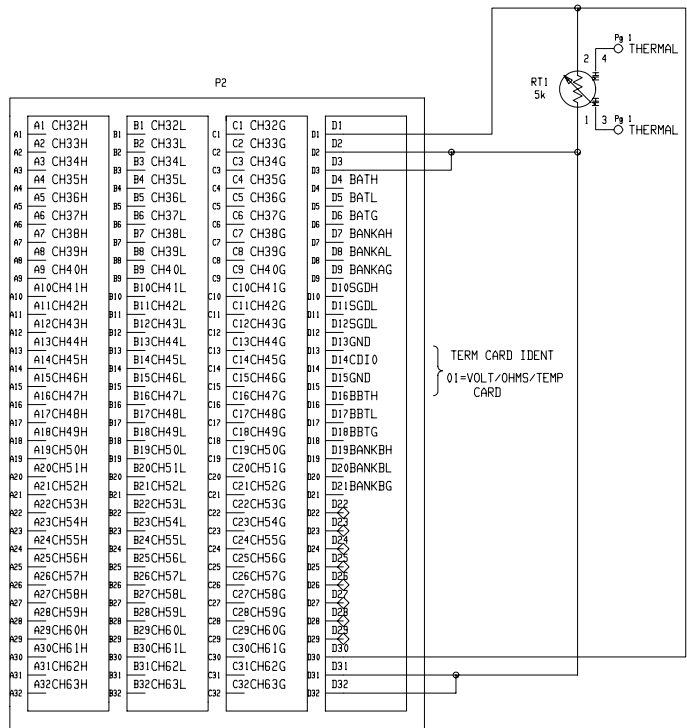
CH12H	42
CH12L	40
CH12G	38
CH13H	36
CH13L	34
CH13G	32
CH14H	30
CH14L	28
CH14G	26
CH15H	24
CH15L	22
CH15G	20
CH16H	18
CH16L	16
CH16G	14
CH17H	12
CH17L	10
CH17G	8
CH18H	6
CH18L	4
CH18G	2

J3

CH19H	1
CH19L	3
CH19G	5
CH20H	7
CH20L	9
CH20G	11
CH21H	13
CH21L	15
CH21G	17
CH22H	19
CH22L	21
CH22G	23
CH23H	25
CH23L	27
CH23G	29
CH24H	31
CH24L	33
CH24G	35

J4

CH25H	48
CH25L	46
CH25G	44
CH26H	42
CH26L	40
CH26G	38
CH27H	36
CH27L	34
CH27G	32
CH28H	30
CH28L	28
CH28G	26
CH29H	24
CH29L	22
CH29G	20
CH30H	18
CH30L	16
CH30G	14
CH31H	12
CH31L	10
CH31G	8
BATH	6
BATL	4
BATG	2



J5

CH32H	1
CH32L	3
CH32G	5
CH33H	7
CH33L	9
CH33G	11
CH34H	13
CH34L	15
CH34G	17
CH35H	19
CH35L	21
CH35G	23
CH36H	25
CH36L	27
CH36G	29
CH37H	31
CH37L	33
CH37G	35
CH38H	37
CH38L	39
CH38G	41
CH39H	43
CH39L	45
CH39G	47
CH40H	49
CH40L	51
CH40G	53
CH41H	55
CH41L	57
CH41G	59
CH42H	61
CH42L	63
CH42G	65
CH43H	67
CH43L	69
CH43G	71

J6

CH44H	42
CH44L	40
CH44G	38
CH45H	36
CH45L	34
CH45G	32
CH46H	30
CH46L	28
CH46G	26
CH47H	24
CH47L	22
CH47G	20
CH48H	18
CH48L	16
CH48G	14
CH49H	12
CH49L	10
CH49G	8
CH50H	6
CH50L	4
CH50G	2

J7

CH51H	1
CH51L	3
CH51G	5
CH52H	7
CH52L	9
CH52G	11
CH53H	13
CH53L	15
CH53G	17
CH54H	19
CH54L	21
CH54G	23
CH55H	25
CH55L	27
CH55G	29
CH56H	31
CH56L	33
CH56G	35

J8

BBTH	48
BBTL	46
BBTG	44
CH57H	42
CH57L	40
CH57G	38
CH58H	36
CH58L	34
CH58G	32
CH59H	30
CH59L	28
CH59G	26
CH60H	24
CH60L	22
CH60G	20
CH61H	18
CH61L	16
CH61G	14
CH62H	12
CH62L	10
CH62G	8
CH63H	6
CH63L	4
CH63G	2

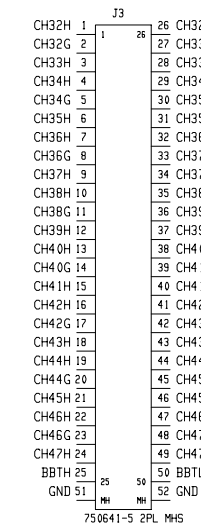
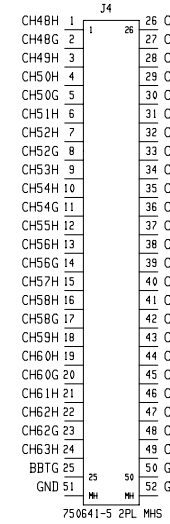
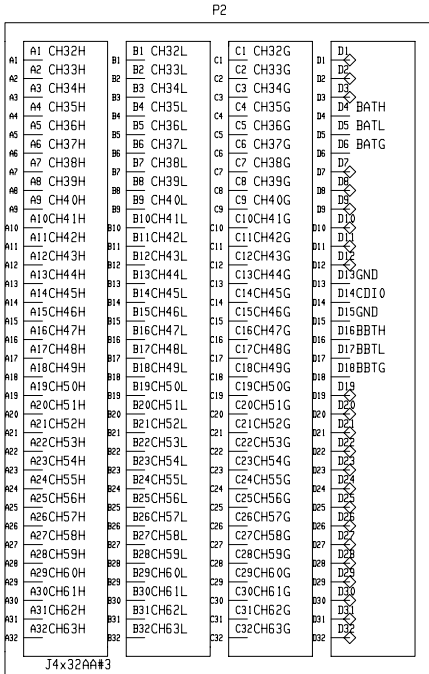
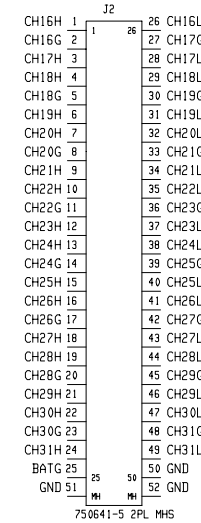
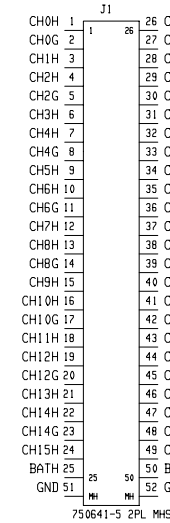
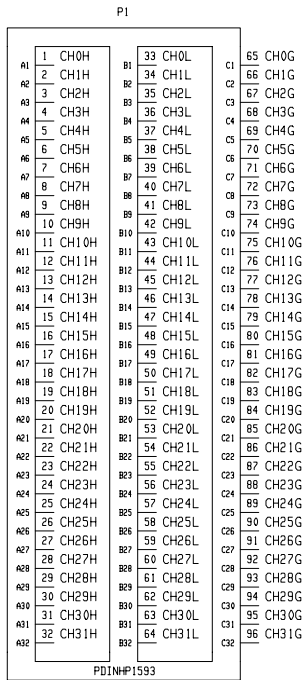
**Agilent E1476A**  
**64 Channel 3-Wire Multiplexer**  
**E1476-66510**

**Volts/Ohms/Temperature**  
**Terminal Card**

FEMALE CONNECTOR

## E1476-66510 Parts List

Reference Designator	Qty	Agilent Part Number	Description	MPN	Manufacturer
J1, J5	2	0360-2575	TERMINAL BLOCK 36-TERM PC BOARD POLYE	233-536/002-000	WAGO
J2, J6	2	0360-2576	TERMINAL BLOCK 21-TERM PC BOARD POLYE	233-521/002-000	WAGO
J3, J7	2	0360-2574	TERMINAL BLOCK 36-TERM PC BOARD POLYE	233-518/002-000	WAGO
J4, J8	2	0360-2577	TERMINAL BLOCK 24-TERM PC BOARD POLYE	233-524/002-000	WAGO
LBL1	1	7121-5729	LBL-LNE-PTR; 1.5-IN-WD X .25-IN-LG	THT-45-457-10	BRADY
P1	1	1252-1593	CONN-POST TYPE 2.54-PIN-SPCG-MTG-END	20-8577-096-002-025	KYOCERA
P2	1	1252-6047	CONN-POST TYPE 2.54-PIN-SPCG-MTG-END	913438	ERNI-ELEKTRO-APPARATE
PCB1	1	E1476-26510	PC BOARD, ETCHED (PWB)	E1476-26510	AGILENT TECHNOLOGIES
RT1	1	0837-0339	THERMISTOR PROBE 5K-OHM TC=-1.8pct/C-DEG	590-42AM01-502	HONEYWELL
RVT1, RVT2	2	0361-0158	RIVET-SEMITUB OVH .089DIA .312LG ; RIVET-SEMITUBULAR ; OVAL HEAD; 0.089 IN DIA BODY; ; 0.312 IN LONG; BRASS ELECTRO TIN ; PLATED; PER RIVET COUNCIL NO. ; 2-089	0361-0158 20196 R-3484	NATIONAL RIVET & MFG TUBULAR RIVET & STUD DIV TOWNS CHICAGO RIVET & MACHINE
RVT3 - RVT6	4	0361-1294	RIVET-SEMITUB OVH .098DIA .328LG ; RIVET-SEMITUBULAR ; OVAL HEAD; 0.098 IN DIA BODY; ; 0.328 IN LONG; BRASS ELECTRO TIN ; PLATED	0361-1294 0361-1294	CHICAGO RIVET & MACHINE NATIONAL RIVET & MFG



**Agilent E1476A**  
**64 Channel 3-Wire Multiplexer**  
**E1476-66512**

**DIN96-SCSI Adaptor for E1476/**  
**E1586 Combination**

FEMALE CONNECTOR

## E1476-66512 Parts List

Reference Designator	Qty	Agilent Part Number	Description	MPN	Manufacturer
J1-4	4	1252-4259	CONN-RCPT RA 50-POS 1.27MM 4-ROW	5787395-5 QA11253-68	TYCO INTERNATIONAL HON HAI PRECISION INDUSTRY
LBL1	1	7121-5729	LBL-LNE-PTR; 1.5-IN-WD X .25-IN-LG	THT-45-457-10	BRADY
P1	1	1252-1593	CONN-POST TYPE 2.54-PIN-SPCG-MTG-END	20-8577-096-002-025	KYOCERA
P2	1	1252-6047	CONN-POST TYPE 2.54-PIN-SPCG-MTG-END	913438	ERNI-ELEKTRO-APPARATE
PCB1	1	E1476-26512	BLK PC BD	E1476-26512	AGILENT TECHNOLOGIES
RVT1-4	4	0361-1294	RIVET-SEMITUB OVH .098DIA .328LG ; RIVET-	0361-1294 0361-1294	CHICAGO RIVET & MACHINE NATIONAL RIVET & MFG

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