

2010-06-03 13:54:59 CR5000 828-2043-002 B ncrv1zu

8

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1

NOTES:

1. "T" DESIGNATES CIRCUIT CARD ASSEMBLY TOP SURFACE.

2. REFERENCE DESIGNATORS USED IN LIEU OF ITEM NUMBERS.

3. PARENTHETICAL INFORMATION IS FOR REFERENCE ONLY.

4. ITEM IDENTIFICATION BALLOONS DENOTE ITEM NUMBER OR ITEM NUMBER - QUANTITY.

5. UNLESS OTHERWISE SPECIFIED, ASSEMBLY SHALL BE IN ACCORDANCE WITH ITEM 3.

6. Z MAX DIMENSIONS, EXCLUDING CONNECTORS, PIN FIELDS, AND MECHANICAL HARDWARE:

Z TOP SHALL BE 1.302

Z BOTTOM SHALL BE .500

MAXIMUM LEAD PROTRUSION SHALL BE .090

7. APPLY IDENTIFICATION MARKING IN APPROXIMATE LOCATION SHOWN, IN ACCORDANCE WITH ITEM 4, TYPE 2, CLASS II.

8. CAUTION: THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES, AND/OR ASSEMBLIES IDENTIFIED AS CLASS 1 IN ACCORDANCE WITH MIL-STD-1686. HANDLE IN ACCORDANCE WITH ITEM 5. ESD SYMBOL APPLIED BY PRINTED WIRING BOARD FABRICATION PROCESS.

9. THIS CIRCUIT CARD ASSEMBLY WILL BE TESTED AT A HIGHER LEVEL.

10. CONFORMAL COAT ASSEMBLY USING ITEM 8 IN ACCORDANCE WITH ITEM 6.

HATCHED AREAS INDICATED SHALL BE FREE OF CONFORMAL COATING, AND SHALL APPROXIMATE SOLDER MASK CLEARANCE ON FAB BOARD.

11. ITEM 7 MAY BE UTILIZED ON THIS ASSEMBLY.

12. UNLESS OTHERWISE SPECIFIED, DIMENSIONS AND TOLERANCES ARE EXPRESSED IN INCHES AND SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.5M-1994.

13. THE BODY OF ITEMS 29 AND 37 SHALL BE SOLDERED TO ITEM 1.

14. ABBREVIATIONS AND ACRONYMS NOT IN ACCORDANCE WITH ASME Y14.38:

VERY HIGH FREQUENCY RADIO (VHF)

15. INSTALL ITEM 47 FROM TOP SIDE AND SECURE IN ACCORDNCE WITH ITEM 9.

16. REMOVE PIN 6 FROM ITEM 101 P1015 AND P2015 PRIOR TO INSTALLATION.

REVISION HISTORY

REV

DESCRIPTION

DATE

APPROVED

B

ECO-0276184

2010-06-04

B.C.

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY

PARTS LIST CONTINUED ON THE FOLLOWING SHEET

2	31	351-6776-020	ANALOG IC, POWER MANAGEMENT				U1026, 2026
2	30	351-6776-010	ANALOG IC, POWER MANAGEMENT				U1022, 2022
2	29	351-5576-020	ANALOG IC, A/D CONVERTER			13	U1010, 2010
4	28	351-5551-010	ANALOG IC, A/D CONVERTER				U1021, 1031, 2021, 2031
4	27	351-3336-010	ANALOG IC, OPERATIONAL AMPLIFIER				U1045, 1048, 2045, 2048
2	26	351-3268-070	IC, INTERFACE, LVDS RECEIVER				U1000, 2000
2	25	351-3152-480	LOGIC IC, GATE				U1023, 2023
12	24	351-3152-430	LOGIC IC, BUS DRIVER/TRANSCIEVER				U1032, 1051-1055, 2032, 2051-2055
2	23	351-3152-390	LOGIC IC, GATE				U1056, 2056
2	22	351-3152-380	LOGIC IC, GATE				U1029, 2029
2	21	351-3111-110	MICROPROCESSOR IC, DSP				U1039, 2039
2	20	351-2987-020	ANALOG IC, POWER MANAGEMENT				U1017, 2017
4	19	351-2939-010	INTERFACE IC, LINE DRIVER				U1003, 1004, 2003, 2004
6	18	351-2876-020	ANALOG IC, D/A CONVERTER				U1015, 1033, 1041, 2015, 2033, 2041
22	17	351-1392-180	ANALOG IC, OPERATIONAL AMPLIFIER				U1006, 1007, 1013, 1014, 1027, 1028, 1035-1037, 1042, 1043, 2006, 2007, 2013, 2014, 2027, 2028, 2035-2037, 2042, 2043
4	16	278-0491-140	TRANSFORMER, RF				T1000, 1001, 2000, 2001
2	15	277-0986-040	XD, CLOCK				G1000, 2000
30	14	262-7001-060	DIODE, LIGHT EMITTING				DS1000-1004, 1901-1910, 2000-2004, 2901-2910
4	13	240-3050-040	INDUCTOR				L1000, 1001, 2000, 2001
2	12	240-2988-240	INDUCTOR, 2.2UH				L1008, 2008
4	11	240-2972-080	INDUCTOR, SURFACE MOUNT, 15UH				L1005, 1006, 2005, 2006
2	10	220-0071-090	CONNECTOR, HEADER				P1014, 2014
REF	9	839-5402-001	FABRICATION ASSY PRACTICES			15	
AR	8	821-0650-020	INSULATING COMPOUND, ACRYLIC			10	
REF	7	580-6520-001	STANDARD ASSY PRACTICES			11	
REF	6	580-5458-001	CONFORMAL COATING, ACRYLIC-BASED, APPLIC			10	
REF	5	489-0004-001	PROCEDURE, ESD			8	
REF	4	580-1497-001	PROCESS, MARKING IDENT			7	
REF	3	523-0778764	RC WORKMANSHIP STD MANUAL			5	
REF	2	828-7043-002	SCHEMATIC DIAGRAM				
1	1	826-0004-701	PRINTED WIRING BOARD				
QTY	ITEM NO	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	DOCUMENT NO	CAGEC	NOTES	REF DESIGNATOR

PARTS LIST

CONTRACT NO

PREP

S.RUTHERFORD 2010-04-08

CHK

S.SOLYNTJES 2010-04-08

653-1612-001

VHF-2200

APVD

R.CAMPBELL 2010-04-08

NEXT ASSY

USED ON

ALL SHEETS ARE THE SAME REVISION STATUS

APPLICATION

THIRD ANGLE PROJECTION

SIZE

D

CAGEC

OEFD0

DWG NO

828-2043-002

REV

B

SCALE

NONE

SHEET

1 OF 17

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CAUTION

CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD)

STATE 3 - ENGINEERING RELEASE 2010-06-09

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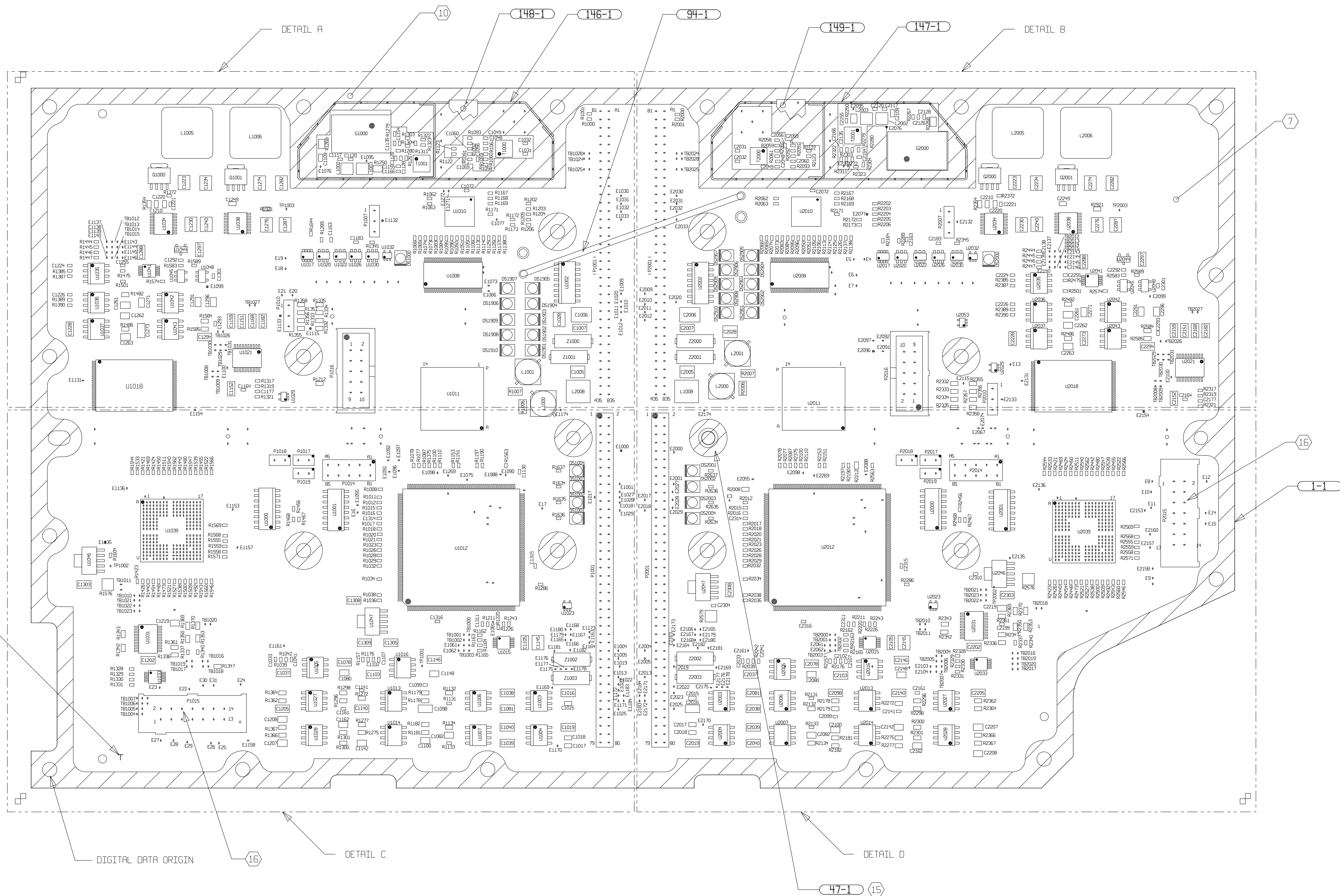
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20	55	705-2438-590	RESISTOR, 20K OHMS				R1178, 1181, 1272, 1277, 1296, 1299, 1513, 1516, 1580, 1585, 2178, 2181, 2272, 2277, 2296, 2299, 2513, 2516, 2580, 2585								
54	54	705-2438-440	RESISTOR, 10K OHMS				R1180, 1273-1276, 1297, 1298, 1300, 1301, 1332, 1334, 1335, 1356, 1363, 1365, 1367, 1459, 1477, 1482, 1486, 1512, 1514, 1515, 1581, 1584, 1586, 1921, 2180, 2273-2276, 2297, 2298, 2300, 2301, 2332, 2334, 2335, 2356, 2363, 2365, 2367, 2459, 2477, 2482, 2486, 2512, 2514, 2515, 2581, 2584, 2586, 2921								
50	53	705-2438-330	RESISTOR, 4750 OHMS				R3, 4, 6-9, 1132, 1134, 1212, 1284, 1285, 1294, 1295, 1347, 1348, 1360, 1361, 1594, 1596, 1597, 1599, 1605, 1607, 1609, 1611, 1614, 1920, 2132, 2134, 2212, 2284, 2285, 2294, 2295, 2347, 2348, 2360, 2361, 2510, 2594, 2596, 2597, 2599, 2605, 2607, 2609, 2611, 2614, 2615, 2920								
4	52	705-2438-290	RESISTOR, 3830 OHMS				R1398, 1532, 2398, 2532								
10	51	705-2438-050	RESISTOR, 1K OHMS				R1179, 1182, 1397, 1531, 1601, 2179, 2182, 2397, 2531, 2601								
4	50	705-2437-860	RESISTOR, 475 OHMS				R1460, 1478, 2460, 2478								
50	49	705-2437-230	RESISTOR, 33.2 OHMS				R20, 21, 1283, 1288, 1290, 1309, 1312, 1336, 1341-1343, 1349, 1371, 1529, 1588, 1592, 1593, 1595, 1598, 1600, 1602, 1606, 1608, 1610, 1612, 1613, 2283, 2288, 2290, 2309, 2312, 2336, 2341-2343, 2349, 2371, 2529, 2588, 2592, 2593, 2595, 2598, 2600, 2602, 2606, 2608, 2610, 2612, 2613								
4	48	705-2437-180	RESISTOR, 23.7 OHMS				R1354, 1458, 2354, 2458								
1	47	653-1856-002	PIN, GUIDE			15									
2	46	372-0432-200	CONN, PCB, BOARD STACKING, SOCKET, 70 CO				P1000, 2000								
2	45	372-0402-590	CONN, PCB, BOARD STACKING, STACKER, 80 C				P1001, 2001								
2	44	357-7207-380	CONNECTOR, RF				J1000, 2000								
4	43	352-1968-050	TRANSISTOR, FET GENERAL PURPOSE PWR				Q1000, 1001, 2000, 2001								
4	42	351-9603-050	INTERFACE IC, LINE DRIVER OR REC				U1001, 1002, 2001, 2002								
2	41	351-9204-010	TELECOM/DATACOM IC, OTHER				U1011, 2011								
2	40	351-9189-010	MEMORY IC, PRGM ROM, FLASH 3V PROM				U1018, 2018								
2	39	351-6987-010	ANALOG IC, VOLTAGE REFERENCE				U1044, 2044								
2	38	351-6956-140	PROGRAMMABLE LOGIC IC, FPGA				U1012, 2012								
4	37	351-6920-020	ANALOG IC, SWITCHING REGULATOR			13	U1034, 1038, 2034, 2038								
2	36	351-6897-020	FIXED POSITIVE SINGLE OUTPUT LDO RGLTR				U1047, 2047								
2	35	351-6897-010	ADJ POSITIVE SINGLE OUTPUT LDO RGLTR				U1046, 2046								
2	34	351-6838-500	LOGIC IC, BUS DRIVER/TRANSCEIVER				U1008, 2008								
2	33	351-6776-050	ANALOG IC, POWER MANAGEMENT				U1020, 2020								
2	32	351-6776-030	ANALOG IC, POWER MANAGEMENT				U1030, 2030								
QTY	ITEM NO	PART OR INDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	DOCUMENT NO	CAGEC	NOTES	REF DESIGNATOR								
PARTS LIST															
ROCKWELL COLLINS, INC.--PROPRIETARY INFORMATION				SIZE	CAGEC	DWG NO	REV								
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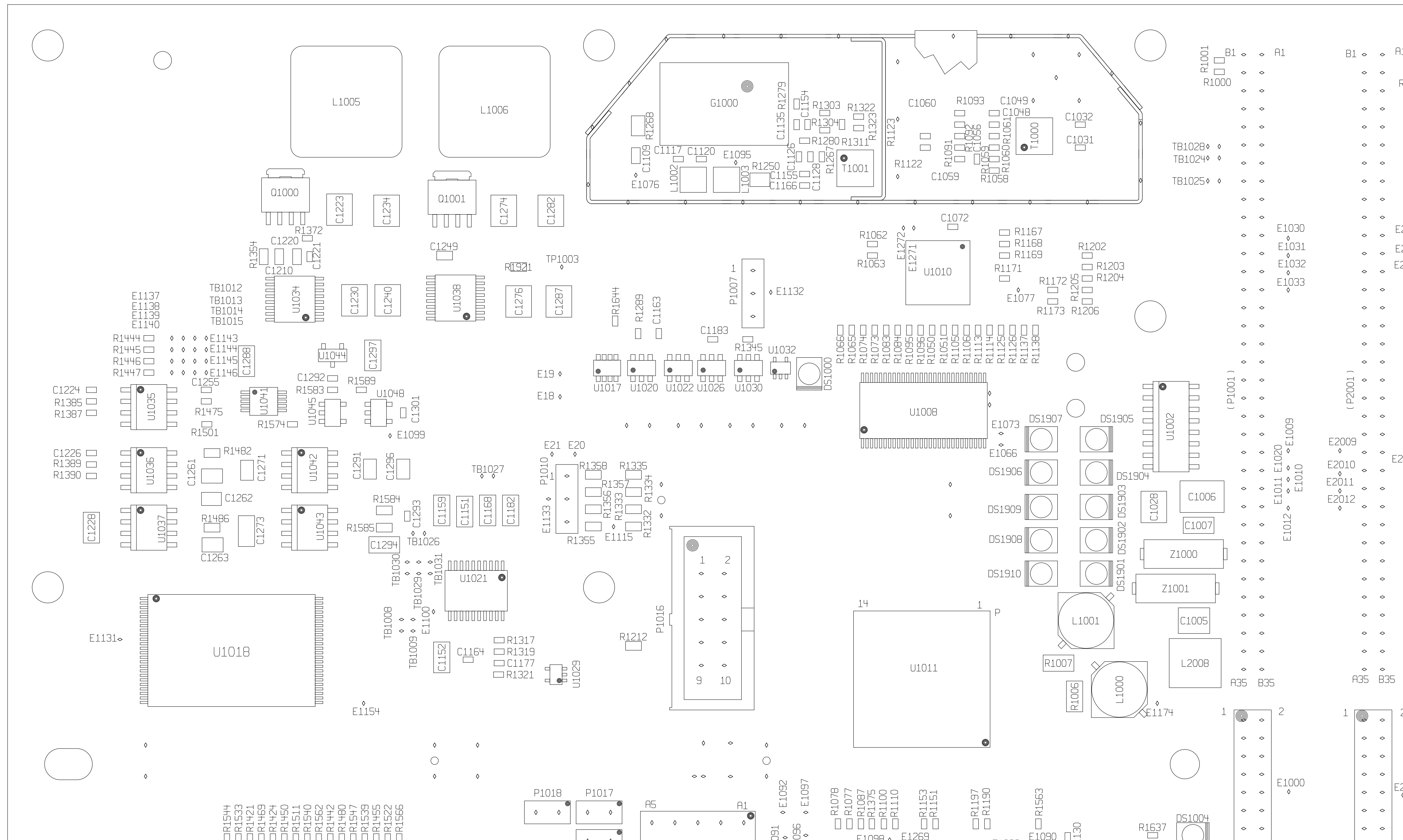
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COMPONENTS TOP

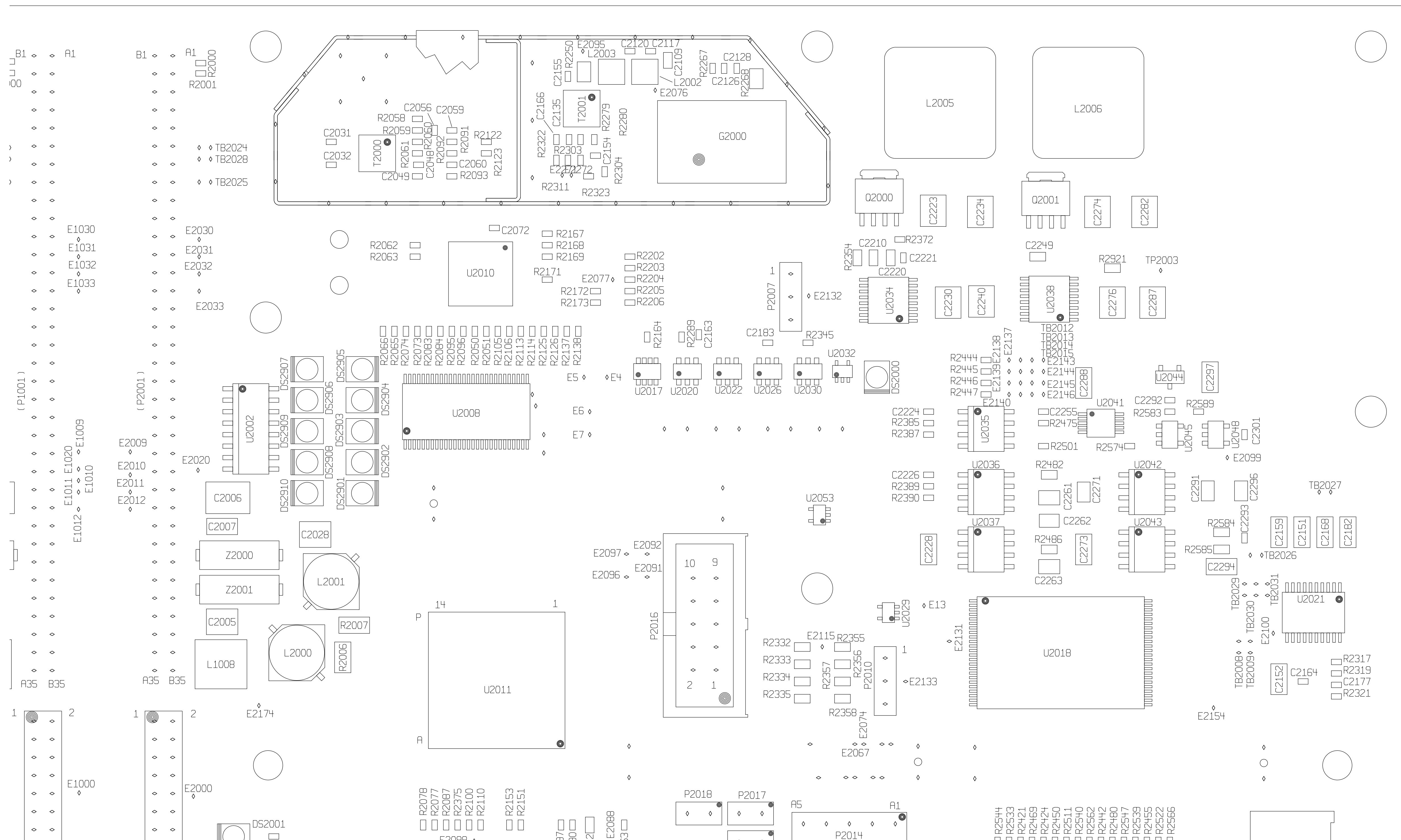
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SCALE NONE			SHEET 8



DETAIL A

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SCALE NONE		SHEET 9	



DETAIL B

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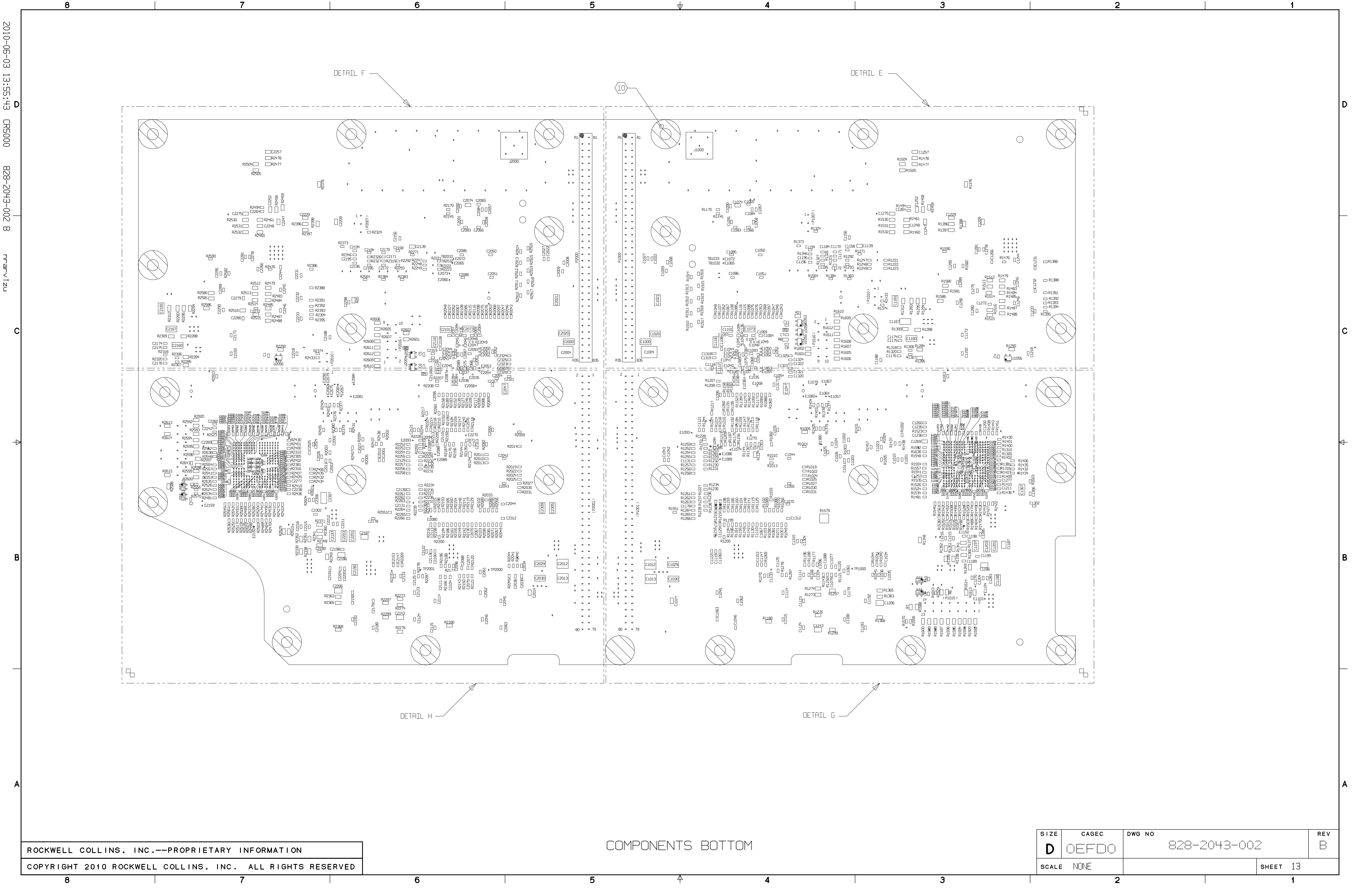
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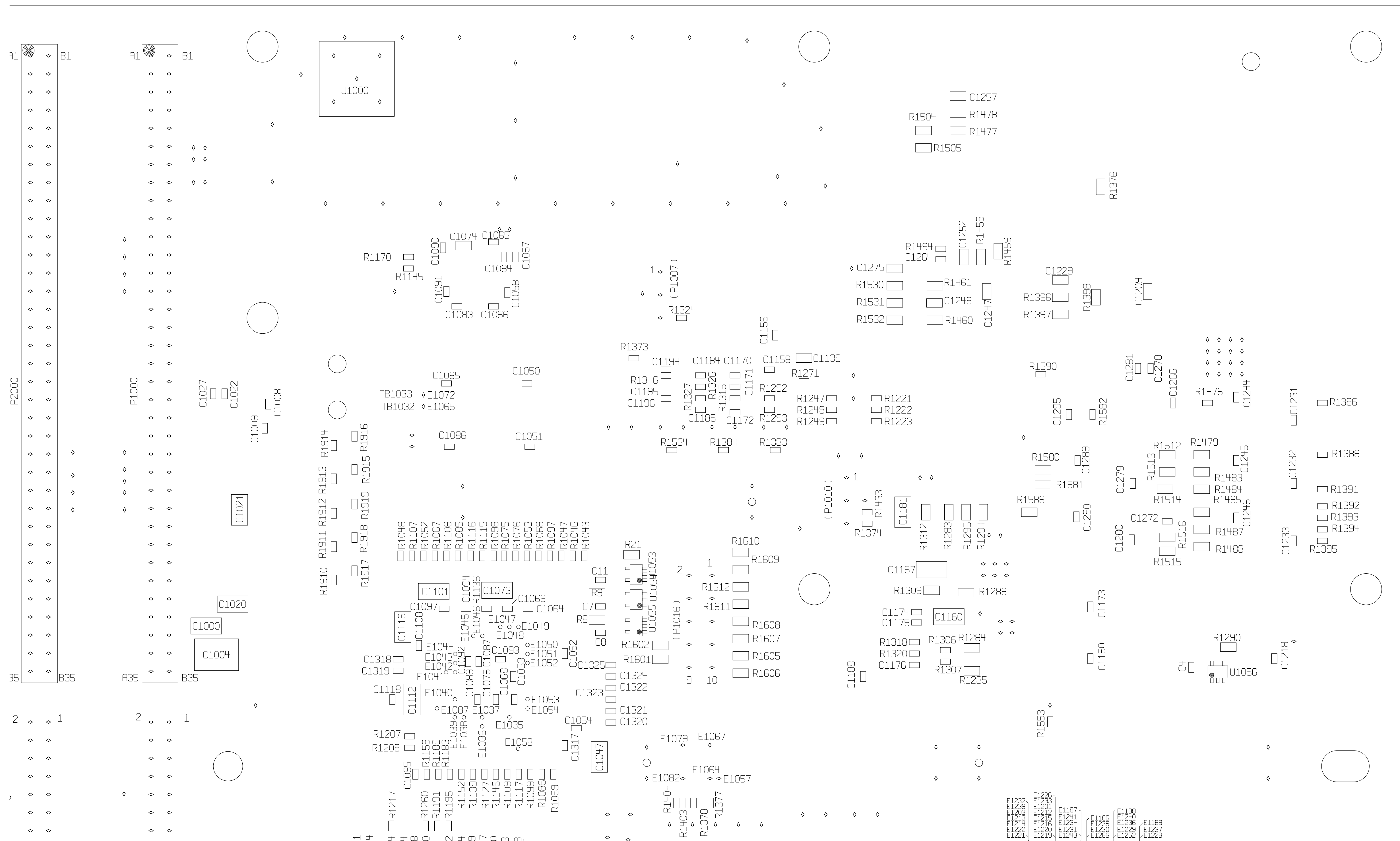
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COMPONENTS BOTTOM

SIZE	CAGEC	DWG NO	REV
D	0EFDO	828-2043-002	B
SCALE	NONE	SHEET 13	



DETAIL E

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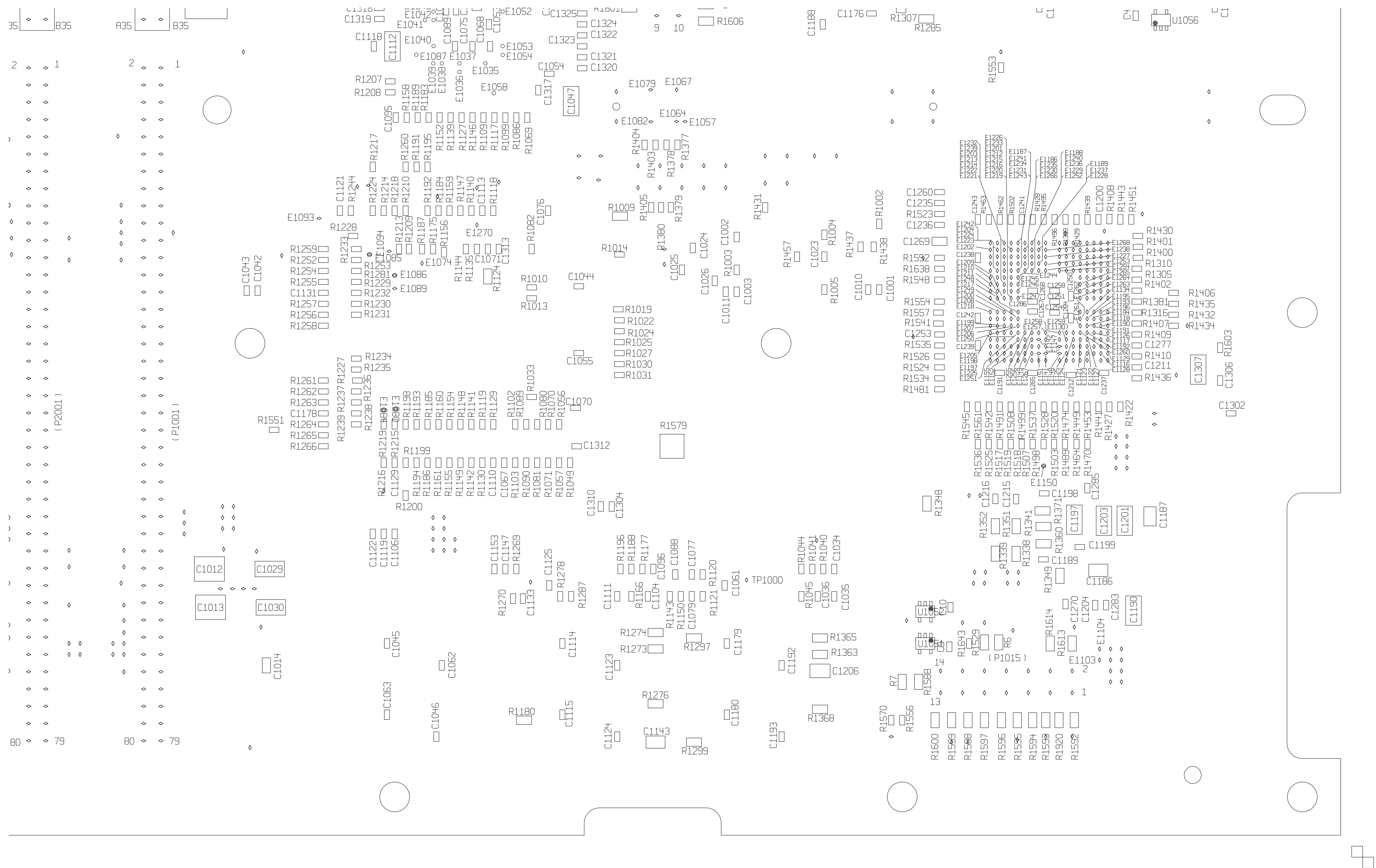
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SCALE NONE		SHEET 14	



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SIZE D	CAGEC 0EFDO	DWG NO 828-2043-002		REV B
SCALE NONE		SHEET 15		



DETAIL H

SIZE	CAGEC	DWG NO	REV
D	0EFD0	828-2043-002	B
SCALE	NONE	SHEET 17	