

2011-02-07 09:13:42 CR5000 828-3778-002 B jkdoty

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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. BALLOON IDENTIFICATION DENOTES: ITEM NUMBER - QUANTITY.
5. UNLESS OTHERWISE SPECIFIED, ASSEMBLY SHALL BE IN ACCORDANCE WITH ITEM 3. ADDITIONAL MODIFICATIONS SHALL BE IN ACCORDANCE WITH ITEM 209.
6. Z MAX DIMENSIONS, EXCLUDING CONNECTORS, PIN FIELDS, AND MECHANICAL HARDWARE:
 Z TOP SHALL BE .330
 Z BOTTOM SHALL BE .240
 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 6 IN ACCORDANCE WITH ITEM 7.
 HATCHED AREAS INDICATED SHALL BE FREE OF CONFORMAL COATING, AND SHALL APPROXIMATE SOLDER MASK CLEARANCE ON FAB BOARD.
11. ITEM 8 MAY BE UTILIZED ON THIS ASSEMBLY.
12. DIMENSIONING AND TOLERANCING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.5M-1994. DIMENSIONS AND TOLERANCES ARE IN INCHES.
13. THE BODY OF ITEMS 52, 53, 59, 60 AND 61 SHALL BE SOLDERED TO ITEM 1.
14. ALL E DESIGNATORS ARE SHOWN FOR REFERENCE ONLY.

REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
B	ECO-0284422	2011-02-03	B.A.

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY

PARTS LIST CONTINUED ON THE FOLLOWING SHEET

2	34	351-3152-280	LOGIC IC, GATE				U20, 39
1	33	351-3137-510	LOGIC IC, GATE				U130
18	32	351-3137-210	LOGIC IC, GATE				U62, 72-75, 82, 87, 88, 99-106, 128, 129
1	31	351-3136-180	LOGIC IC, FF/LATCH				U93
1	30	351-3114-150	MICROPROCESSOR IC, CLOCK GENERATOR				U22
1	29	351-3111-140	MICROPROCESSOR IC, DSP				U12
1	28	351-2987-010	ANALOG IC, POWER MANAGEMENT				U55
1	27	351-2973-010	IC, LINEAR, VOLTAGE REGULATOR				U13
1	26	351-2930-200	MICROPROCESSOR IC, MICROCONTROLLER				U1
1	25	351-2924-280	TELECOM/DATACOM IC, NETWORK INTRFACE				U94
3	24	351-2807-100	MEMORY IC, DYNAMIC RAM				U23-25
1	23	351-2797-020	MEMORY IC, PRGM ROM, FLASH 3V PROM				U10
2	22	351-2597-010	IC, LINEAR				U71, 90
5	21	351-1278-030	ANALOG IC, COMPARATOR				U2, 3, 5, 7, 14
1	20	351-0355-010	IC, LINEAR				U89
15	19	306-2721-010	TERMINAL, TEST POINT				TP7, 8, 11, 12, 15-25
4	18	288-0151-050	BEAD, FERRITE				Z3-6
1	17	277-0832-020	OSCILLATOR, CRYSTAL CLOCK				G3
1	16	277-0814-070	OSCILLATOR, CRYSTAL CLOCK				G1
2	15	262-7001-060	DIODE, LIGHT EMITTING				DS3, 6
3	14	262-3174-040	VISIBLE LED				DS1, 4, 5
5	13	240-2972-080	INDUCTOR, SURFACE MOUNT, 15UH				L1-5
1	12	220-0071-110	CONNECTOR, HEADER				P60
2	11	220-0071-100	CONNECTOR, HEADER				P4, 19
2	10	184-6344-250	CAPACITOR, 47uF				C185, 186
4	9	184-0509-070	CAPACITOR, FIXED, 150UF, 16V				C176, 177, 530, 531
REF	8	580-6520-001	STANDARD ASSY PRACTICES			11	
REF	7	580-5458-001	CONFORMAL COATING, ACRYLIC-BASED, APPLIC			10	
AR	6	821-0650-020	INSULATING COMPOUND, ACRYLIC			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	828-9178-002	SCHEMATIC DIAGRAM				
1	1	826-0004-707	PRINTED WIRING BOARD				
QTY	ITEM NO	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	DOCUMENT NO	CAGEC	NOTES	REF DESIGNATOR

THE TECHNICAL DATA IN THIS DOCUMENT (OR FILE) IS CONTROLLED FOR EXPORT UNDER THE EXPORT ADMINISTRATION REGULATIONS (EAR), 15 CFR PARTS 730-774. VIOLATIONS OF THESE EXPORT LAWS MAY BE SUBJECT TO FINES AND PENALTIES UNDER THE EXPORT ADMINISTRATION ACT.

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CAUTION

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

CONTRACT NO

PREP
S.RUTHERFORD 2010-04-09

CHK
S.SOLYNTJES 2010-04-09

APVD
G.ZELNA 2010-04-09

983-9370-001

VHF-2200

NEXT ASSY

USED ON

ALL SHEETS ARE THE SAME REVISION STATUS

APPLICATION

THIRD ANGLE PROJECTION

ROCKWELL COLLINS

CIRCUIT CARD ASSEMBLY
SYSTEM PROCESSOR

SIZE
D

CAGEC
0EFDO

DWG NO
828-3778-002

REV
B

SCALE
NONE

SHEET
1 OF 23

2011-02-07 09:13:42 CR5000 828-3778-002 B jk-dot-y

8	7	6	5	4	3	2	1
PARTS LIST CONTINUED ON THE FOLLOWING SHEET							
3	122	705-3205-410	RESISTOR, 130K OHMS				R1270-1272
8	121	705-3205-400	RESISTOR, 124K OHMS				R1207-1210, 1217, 1218, 1220, 1221
1	120	705-3205-290	RESISTOR, 71.5K OHMS				R121
2	119	705-3204-910	RESISTOR, 10.7K OHMS				R277, 278
3	118	705-3204-900	RESISTOR, 10.5K OHMS				R1056-1058
1	117	705-3204-890	RESISTOR, 9760 OHMS				R17
3	116	705-3204-770	RESISTOR, 6490 OHMS				R1273-1275
2	115	705-3204-750	RESISTOR, 6040 OHMS				R286, 1186
1	114	705-3204-740	RESISTOR, 5900 OHMS				R285
1	113	705-3204-730	RESISTOR, 5760 OHMS				R1084
1	112	705-3204-640	RESISTOR, 3740 OHMS				R281
1	111	705-3204-550	RESISTOR, 2670 OHMS				R1152
3	110	705-3204-460	RESISTOR, 1650 OHMS				R1153-1155
1	109	705-3204-360	RESISTOR, 1150 OHMS				R1151
1	108	705-3204-350	RESISTOR, 1130 OHMS				R1085
1	107	705-3204-330	RESISTOR, 1020 OHMS				R1059
6	106	705-2439-680	RESISTOR, 29.4 OHMS				R358-361, 395, 409
1	105	705-2439-240	RESISTOR, 475K OHMS				R269
1	104	705-2439-190	RESISTOR, 332K OHMS				R282
2	103	705-2439-150	RESISTOR, 255K OHMS				R1291, 1292
4	102	705-2439-130	RESISTOR, 221K OHMS				R851, 853, 854, 1023
1	101	705-2439-110	RESISTOR, 200K OHMS				R164
4	100	705-2438-960	RESISTOR, 105K OHMS				R1024, 1028, 1029, 1034
1	99	705-2438-850	RESISTOR, 66.5K OHMS				R351
1	98	705-2438-800	RESISTOR, 51.1K OHMS				R192
1	97	705-2438-600	RESISTOR, 20.5K OHMS				R52
4	96	705-2438-590	RESISTOR, 20K OHMS				R220, 221, 249, 804
2	95	705-2438-500	RESISTOR, 12.4K OHMS				R25, 26
1	94	705-2438-490	RESISTOR, 12.1K OHMS				R886
3	93	705-2438-290	RESISTOR, 3830 OHMS				R770, 771, 775
1	92	705-2438-250	RESISTOR, 3160 OHMS				R971
2	91	705-2438-180	RESISTOR, 2210 OHMS				R504, 505
3	90	705-2438-150	RESISTOR, 1960 OHMS				R161, 162, 166
1	89	705-2438-120	RESISTOR, 1620 OHMS				R23
7	88	705-2438-110	RESISTOR, 1500 OHMS				R1, 2, 5-7, 79, 219
4	87	705-2438-080	RESISTOR, 1210 OHMS				R538-540, 1290
3	86	705-2438-070	RESISTOR, 1100 OHMS				R196-198
2	85	705-2437-990	RESISTOR, 866 OHMS				R193, 194
3	84	705-2437-860	RESISTOR, 475 OHMS				R171, 615, 634
1	83	705-2437-660	RESISTOR, 200 OHMS				R22
5	82	705-2437-480	RESISTOR, 100 OHMS				R18-21, 330
8	81	705-2437-300	RESISTOR, 51.1 OHMS				R1072-1079
3	80	705-2437-180	RESISTOR, 23.7 OHMS				R8, 15, 16
9	79	635-6241-002	TERMINAL, TEST POINT				TP1-6, 10, 13, 14
QTY	ITEM NO	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	DOCUMENT NO	CAGEC	NOTES	REF DESIGNATOR
PARTS LIST							
ROCKWELL COLLINS, INC.--PROPRIETARY INFORMATION				SIZE	CAGEC	DWG NO	REV
COPYRIGHT 2011 ROCKWELL COLLINS, INC. ALL RIGHTS RESERVED				D	OEFD0	828-3778-002	B
				SCALE	NONE		SHEET 3

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8	7	6	5	4	3	2	1
PARTS LIST CONTINUED ON THE FOLLOWING SHEET							
1	141	705-3554-650	RESISTOR, 4640 OHMS				R798
20	140	705-3554-590	RESISTOR, 4020 OHMS				R1227-1229, 1233-1237, 1248-1257, 1312, 1313
2	139	705-3554-260	RESISTOR, 1820 OHMS				R250, 805
27	138	705-3553-680	RESISTOR, 499 OHMS				R482, 508, 977, 980, 1040, 1060-1063, 1080-1083, 1187, 1280-1289, 1300, 1316, 1317
54	137	705-3553-010	RESISTOR, 100 OHMS				R9-14, 119, 410, 570-608, 613, 635-637, 644, 734, 810
308	136	705-3552-510	RESISTOR, 33.2 OHMS				R24, 39, 122, 142, 150, 153, 163, 165, 305-313, 349, 350, 354, 355, 362-394, 396-408, 412-416, 418-437, 440-442, 446, 447, 449-451, 453, 454, 456-459, 461-470, 474-477, 483-503, 506, 527, 528, 550-566, 618, 624, 625, 627, 629, 638-643, 646, 647, 650-655, 673, 675, 678, 685, 688, 694, 696, 732, 735, 736, 762-765, 769, 772, 773, 801-803, 808, 809, 811-813, 816, 858, 859, 862, 906, 955, 986-1018, 1025, 1027, 1030, 1050, 1090-1098, 1107-1143, 1188, 1198-1204, 1222, 1230, 1231, 1318, 1331, 1332
9	135	705-3552-380	RESISTOR, 24.3 OHMS				R314-317, 328, 329, 548, 549, 567
33	134	705-3551-970	RESISTOR, 0 OHMS				R324-327, 331-343, 438, 439, 720, 721, 748-752, 944, 945, 1297, 1298, 1309, 1314, 1315
1	133	705-3540-210	RESISTOR, 130 OHMS				R937
7	132	705-3540-020	RESISTOR, 82.5 OHMS				R667, 668, 698-701, 733
4	131	705-3539-810	RESISTOR, 49.9 OHMS				R177-180
4	130	705-3539-710	RESISTOR, 39.2 OHMS				R1260-1263
1	129	705-3535-820	RESISTOR, 590 OHMS				R1259
6	128	705-3535-200	RESISTOR, 1000 OHMS				R664, 665, 681-684
5	127	705-3215-510	RESISTOR, 1M OHMS				R272, 273, 676, 835, 935
25	126	705-3215-260	RESISTOR, 100K OHMS				R268, 352, 669, 670, 702-704, 708-711, 722-725, 727-730, 737-741, 753
90	125	705-3215-010	RESISTOR, 10K OHMS				R62, 64, 68, 123-133, 139-141, 143-149, 151, 152, 154-156, 159, 160, 175, 176, 181-191, 195, 265, 274, 287, 288, 347, 348, 460, 478-481, 526, 568, 616, 645, 661-663, 674, 706, 707, 712-717, 726, 746, 785, 800, 807, 814, 815, 819, 820, 822, 823, 973-976, 1053-1055
83	124	705-3214-510	RESISTOR, 1000 OHMS				R70, 99-117, 120, 157, 170, 173, 174, 239, 243, 261, 294-304, 318-321, 323, 344-346, 353, 448, 452, 455, 471, 705, 852, 875, 878, 879, 882-885, 949-953, 956, 958, 960-970, 1333-1336
33	123	705-3214-010	RESISTOR, 10 OHMS				R510-522, 531-537, 689, 690, 1264-1269, 1327-1330, 1337
QTY	ITEM NO	PART OR IDENTIFYING 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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				SCALE	NONE		SHEET 4

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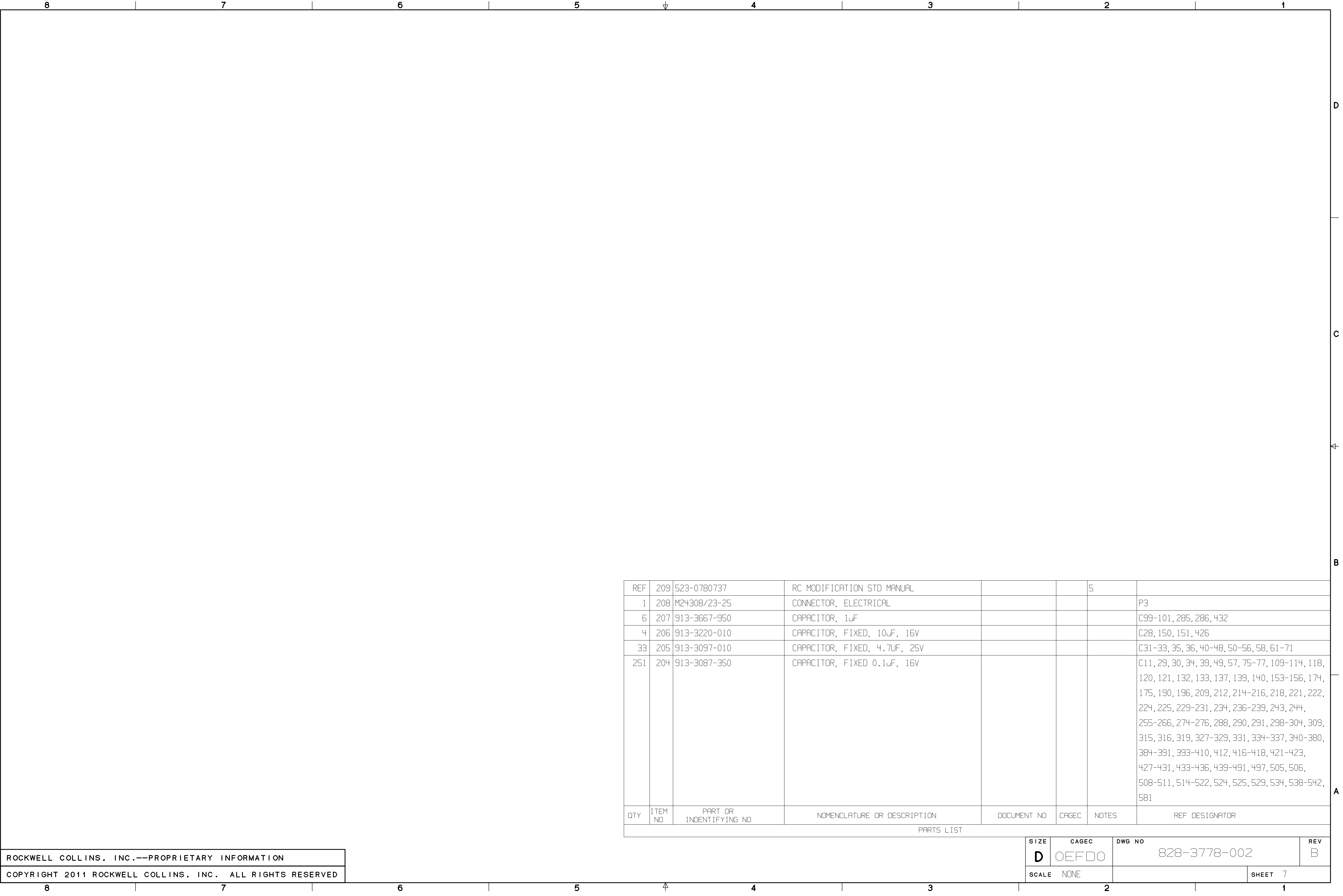
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PARTS LIST CONTINUED ON THE FOLLOWING SHEET							
18	203	913-3086-040	CAPACITOR, FIXED, 10UF, 25V				C117, 119, 126-128, 145, 152, 191, 192, 195, 198, 199, 201-206
6	202	913-3081-020	CAPACITOR, 22uF				C8, 9, 23-25, 279
6	201	913-3081-010	CAPACITOR, 47uF				C1-3, 5-7
6	200	913-3071-070	CAPACITOR, 0.047uF				C492-495, 498, 499
20	199	913-3070-180	CAPACITOR, 0.01uF				C38, 72-74, 78-91, 93, 197
58	198	913-3067-150	CAPACITOR, 0.1uF				C37, 105, 115, 116, 210, 211, 213, 217, 220, 223, 226-228, 232, 233, 235, 240-242, 245-254, 273, 278, 283, 284, 287, 292, 293, 296, 297, 308, 314, 318, 320-326, 330, 332, 333, 338, 339, 507, 523, 526-528
3	197	913-3067-090	CAPACITOR, 0.033uF				C500, 501, 504
3	196	913-3067-060	CAPACITOR, 0.018uF				C411, 414, 415
28	195	913-3066-180	CAPACITOR, 0.01uF				C4, 26, 95-98, 102, 107, 108, 122, 129-131, 135, 136, 138, 141, 146, 148, 149, 189, 193, 194, 200, 207, 219, 289, 502
9	194	913-3066-040	CAPACITOR, 470pF				C142-144, 267-272
10	193	913-3063-210	CAPACITOR, 47pF				C157-165, 310
29	192	913-3060-080	CAPACITOR, 1000pF				C134, 147, 178-184, 277, 306, 312, 313, 317, 381, 382, 392, 413, 424, 437, 438, 496, 503, 512, 532, 533, 535-537
3	191	913-3059-260	CAPACITOR, 120pF				C208, 425, 513
8	190	913-3059-210	CAPACITOR, 47pF				C166-173
3	189	913-3059-140	CAPACITOR, 12pF				C60, 92, 311
12	188	913-3059-090	CAPACITOR, 4.7pF				C10, 12-22
1	187	913-0866-750	CAPACITOR, FIXED, 1.5UF, 25V				C27
2	186	913-0866-730	CAPACITOR, 2.2uF				C294, 295
7	185	913-0866-710	CAPACITOR, 1uF				C94, 106, 123, 187, 188, 305, 307
3	184	913-0865-470	CAPACITOR, 5600pF				C280-282
2	183	913-0864-090	CAPACITOR, 10pF				C103, 104
1	182	860-2518-050	CONNECTOR, RECT, AUDIO, JACK				J1
3	181	859-5601-290	CONNECTOR, ELECTRICAL				P5, 6, 9
3	180	859-4830-100	CONN, ELEC, 50 CONT				J2, 4, 5
1	179	853-3010-040	TRANSFORMER				T1
2	178	844-2005-040	SEMICON DVC, DIODE				CR3, 4
2	177	844-0103-060	SEMICON DVC, DIODE				VR17, 18
4	176	843-7047-020	SEMICONDUCTOR, TRANSISTOR				Q85-88
10	175	843-3001-010	TRANSISTOR, FET GEN. PURPOSE SMALL SIG				Q1-6, 34, 80, 83, 84
1	174	843-0041-010	TRANSISTOR, FET GEN PURPOSE SMALL SIG				Q89
QTY	ITEM NO	PART OR IDENTIFYING 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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				SCALE	NONE		SHEET 6



REF	209	523-0780737	RC MODIFICATION STD MANUAL			5	
1	208	M24308/23-25	CONNECTOR, ELECTRICAL				P3
6	207	913-3667-950	CAPACITOR, 1uF				C99-101, 285, 286, 432
4	206	913-3220-010	CAPACITOR, FIXED, 10uF, 16V				C28, 150, 151, 426
33	205	913-3097-010	CAPACITOR, FIXED, 4.7uF, 25V				C31-33, 35, 36, 40-48, 50-56, 58, 61-71
251	204	913-3087-350	CAPACITOR, FIXED 0.1uF, 16V				C11, 29, 30, 34, 39, 49, 57, 75-77, 109-114, 118, 120, 121, 132, 133, 137, 139, 140, 153-156, 174, 175, 190, 196, 209, 212, 214-216, 218, 221, 222, 224, 225, 229-231, 234, 236-239, 243, 244, 255-266, 274-276, 288, 290, 291, 298-304, 309, 315, 316, 319, 327-329, 331, 334-337, 340-380, 384-391, 393-410, 412, 416-418, 421-423, 427-431, 433-436, 439-491, 497, 505, 506, 508-511, 514-522, 524, 525, 529, 534, 538-542, 581
QTY	ITEM NO	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	DOCUMENT NO	CAGEC	NOTES	REF DESIGNATOR
PARTS LIST							

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SIZE	CAGEC	DWG NO	REV
D	0EFDO	828-3778-002	B
SCALE	NONE	SHEET 7	

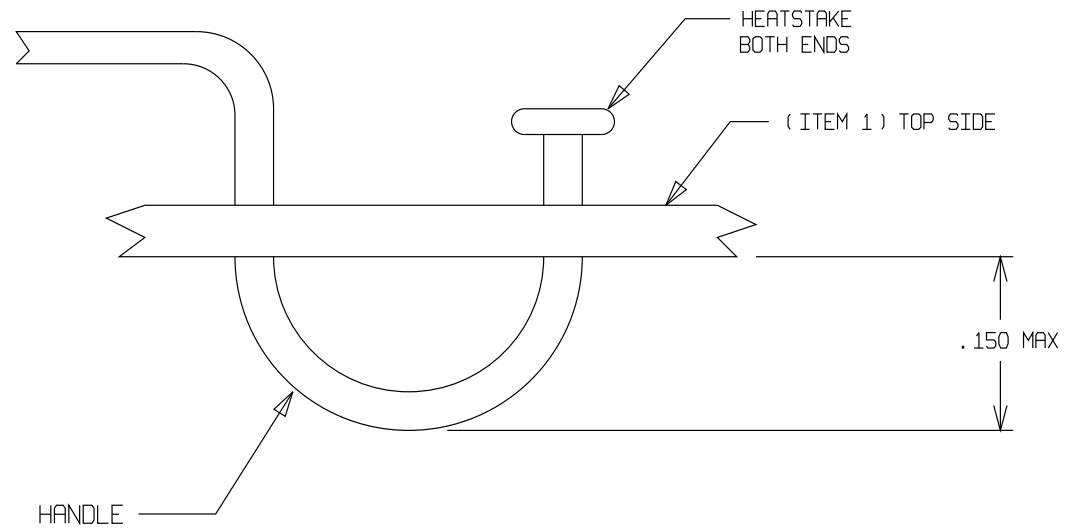
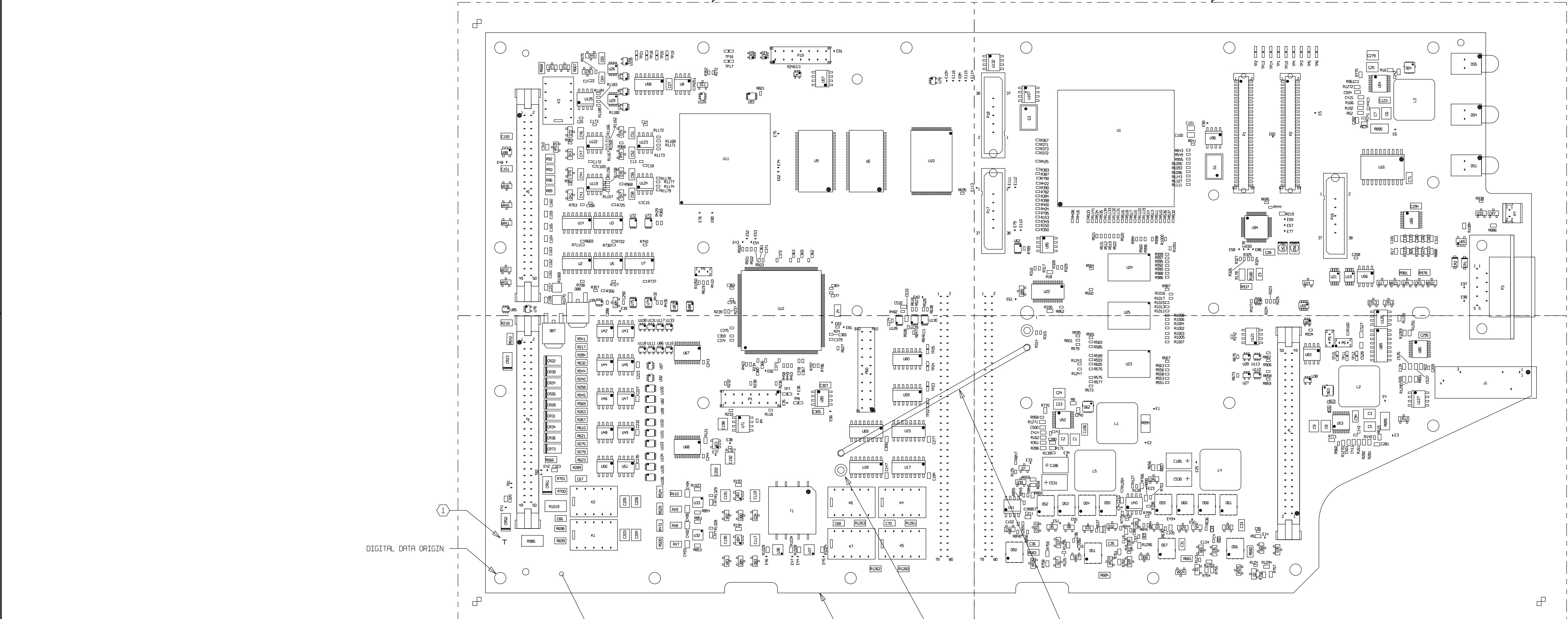
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DETAIL J
2 PLACES

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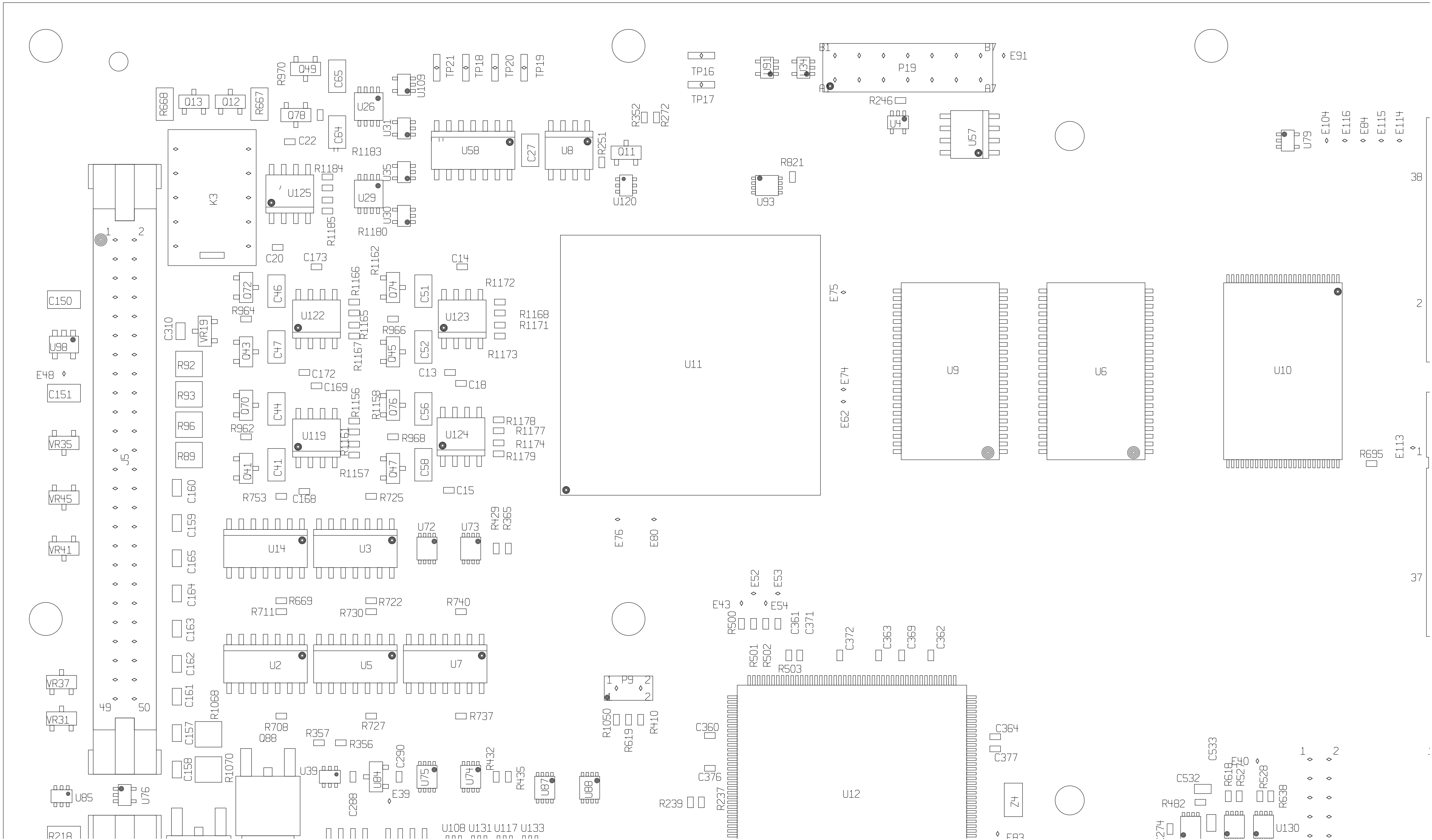
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COMPONENTS TOP

SIZE	CAGEC	DWG NO	REV
D	OEFD0	828-3778-002	B
SCALE		SHEET	
NONE		8	

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DETAIL A

