

828-3372-002

31

- NOTES:
1. PARENTHEICAL ITEM IDENTIFICATION DENOTES ITEM FIND NO. (01).
 2. REFERENCE DESIGNATORS ARE USED IN LIEU OF ITEM FIND NUMBERS.
 3. 580-6520-001 MAY BE UTILIZED ON THIS ASSEMBLY.
 4. TO BE TESTED AT A HIGHER LEVEL.
 5. SOLDER PER COMMERCIAL REQUIREMENTS (580-5178-000).
 6. MAXIMUM Z TOP DIMENSIONS SHOWN ON SHEET 3.
 7. MAXIMUM Z BOTTOM DIMENSION SHALL NOT EXCEED 0.167.
 8. MARK REV LETTER FOLLOWING THE APPROPRIATE LETTERS REV PER 839-0497-001.
 9. ASSEMBLY IDENTIFIED BY APPLICATION OF MARKING REQUIREMENTS ON FAB PART.
 10. MAXIMUM LEAD PROTRUSION TO BE .100.
 11. "T" DESIGNATES BOARD TOP SURFACE.
 12. PER MANUFACTURING, PROJECT OR CONTRACT REQUIREMENTS, MARK THE MANUFACTURING CONTROL NUMBER FOLLOWING THE LETTERS NON PER 839-0497-001.
 13. CAUTION: THIS ASSEMBLY CONTAINS ELECTROSTATIC SENSITIVE DEVICES, HANDLE PER 483-0004-001. IDENTIFY PER 580-6535-001. LOCATE ITEM 8 APPROXIMATELY AS SHOWN.
 14. POSTCOAT TOP AND BOTTOM SIDES PER 580-5158-001.
 15. CROSSHATCHED AREAS TO BE FREE OF POSTCOAT, TOP AND BOTTOM.
 16. BOND ITEMS 2,3 AND 4 TO ITEM 1 AND EACH OTHER USING ITEM 153 PER 580-5205-010. ADHESIVE FILLET SHALL EXTEND AROUND PERIMETER AND .100 INCHES MINIMUM UP THE BODY OF ITEMS 2,3 AND 4.
 17. BOND ITEMS 106 AND 107 TO ITEM 1 USING ITEM 153 PER 580-5205-010.
 18. INSTALL L2,3 AND 5 (ITEM 6) AFTER TEST.
 19. ITEM 156 MAY EXCEED 33% MAXIMUM OVERHANG REQUIREMENT.
 20. BOARD-LEVEL PROGRAM THIS CIRCUIT CARD USING PRE-RELEASE SOFTWARE DL1-005.
 21. REWORK SHALL CONFORM TO PROCESS REQUIREMENTS.
 22. ALL MEASUREMENTS ARE FROM THE MASTER 0-0. MASTER 0-0 OFFSET IS X-0.100 AND Y-0.100.
 23. BOND C302 ON TOP OF R1, C232 ON TOP OF R2, C233 ON TOP OF R100, C234 ON TOP OF R101, C235 ON TOP OF R102, C236 ON TOP OF R103, C237 ON TOP OF R104, C238 ON TOP OF R105, C239 ON TOP OF R106, C300 ON TOP OF R109 AND C301 ON TOP OF R132 USING ITEM 153 PER 839-0507-001.
 24. LAP SOLDER WHERE INDICATED BY 4.
 25. PROGRAM ITEM 27 USING PRE-RELEASE SOFTWARE DL0-001 PRIOR TO PART PLACEMENT.
 26. CUT CIRCUIT LINES AT LOCATION OF 4.
 27. ALL JUMPER WIRE, IF APPLICABLE, IS 36 GAUGE OR LARGER ETCHED TEFLON INSULATED WIRE, U.O.S. BOND WIRE(S) TO BOARD PER 580-5573-001. ROUTING OF JUMPERS OPTIONAL U.O.S.

SCHEMATIC AND FAB BOARD APPLICABILITY REF. TABLE				
SCHEMATIC	ALT LTR	FAB BOARD	ALT LTR	EXT CARD ASSY

828-8772-002	-	826-0007-856	-	828-3372-002	-
828-8772-002	A	826-0007-856	-	828-3372-002	A
828-8772-002	B	826-0007-856	-	828-3372-002	B
828-8772-002	B	826-0007-856	-	828-3372-002	C
828-8772-002	B	826-0007-856	-	828-3372-002	D

3	63 705-2438-710	RESISTOR, 33.2 k	R60,406,408
2	62 705-2438-620	RESISTOR, 22.1 k	R64,431
60	61 705-2438-590	RESISTOR, 20 k	R26,35,37,40,150,152

156,157,176-178,	
180-182,185-187,190,	
197,205,206,211-213,	
224,231-233,235,237,	
238,241,243,247,248,	
254,256,257,260-262,	
264,267,268,273,289,	
304-309,323,329,338,	
340,352,390,400,410	
R61	
R29,269,322,329,421	
R6,10,14,16,18,24,58,	
59,61,63,69,73,146,	
165,173,175,189,192,	
202,207,208,216,228,	
239,327,328,330,337,	
348,350,353,354,375,	
375,378,383,393,395,	
396,399,403,404	
R30,137,146,147,153,	
154,167-172,174,221,	
242,244,249,252,255,	
315,336,341,346,347	
R367,412	
R451	
R53,384,433,449	
R33,151,155,158-160,	
179,183,184,193-196,	
198,199,204,219,217,	
240,265,321,334,335,	
342,343,363,366,377,	
381,405,452,453	
R426	
R139,358,362,386,387	
R259,364	
R36,38,133,134,136,	
140-144,263,407,409	
R439	
R31,32,34,41,245,246	
250,253,266,270-272,	
274-288,290-303,	
310-314,316-319,325,	
332,349	
R20,22,25,27,108,200	
201,210,215,225,258,	
324	

1	60 705-2438-550	RESISTOR, 16.2 k	
5	59 705-2438-510	RESISTOR, 13 k	
42	58 705-2438-440	RESISTOR, 10 k	

24	57 705-2438-370	RESISTOR, 5.62 k	
2	56 705-2438-310	RESISTOR, 4.32 k	
1	55 705-2438-260	RESISTOR, 3.32 k	
4	54 705-2438-180	RESISTOR, 2.21 k	
32	53 705-2438-050	RESISTOR, 1 k	

R54,55,191,222,223,	
230,234,251,429	
R438	
R42,43,47,49,51,52,	
435,436,445,448	
R427	
R437,446,447	
R48	
R417	
R441,444	
R23,50,226,229,326,	
344,345,372,374,379,	
382,416,425,442,450,	
454	
R44-46	
R66,443	
R434	
R355,360,361,365	
R7,9,13,15,17,145,	
166,203,331,351	

1	52 705-2437-980	RESISTOR, 825	
5	51 705-2437-860	RESISTOR, 475	
2	50 705-2437-760	RESISTOR, 274	
13	49 705-2437-400	RESISTOR, 100	
1	48 705-2437-300	RESISTOR, 51.1	
53	47 705-2437-230	RESISTOR, 33.2	
13	46 705-2437-010	RESISTOR, 0	

PARTS LIST CONTINUED ON PAGE 2

9	77 705-2439-380	RESISTOR, 1 M	
1	76 705-2439-320	RESISTOR, 750 k	
10	75 705-2439-240	RESISTOR, 475 k	
1	74 705-2439-110	RESISTOR, 200 k	
3	73 705-2439-060	RESISTOR, 162 k	
1	72 705-2439-050	RESISTOR, 150 k	
1	71 705-2438-990	RESISTOR, 121 k	
2	70 705-2438-980	RESISTOR, 110 k	
16	69 705-2438-950	RESISTOR, 100 k	

3	68 705-2438-890	RESISTOR, 75 k	
2	67 705-2438-820	RESISTOR, 61.9 k	
1	66 705-2438-810	RESISTOR, 56.2 k	
4	65 705-2438-800	RESISTOR, 51.1 k	
10	64 705-2438-780	RESISTOR, 47.5 k	

166,203,331,351	
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QTY/ITEM	INQ.	PART OR IDENT NO.	NOMENCLATURE OR DESCRIPTION	NOTES	REF DESIGNATORS
PARTS LIST (US CUSTOMARY MEASUREMENTS ONLY)					

QTY/ITEM	INQ.	PART OR IDENT NO.	NOMENCLATURE OR DESCRIPTION	NOTES	REF DESIGNATORS
PARTS LIST (US CUSTOMARY MEASUREMENTS ONLY)					

QTY/ITEM	INQ.	PART OR IDENT NO.	NOMENCLATURE OR DESCRIPTION	NOTES	REF DESIGNATORS
PARTS LIST (US CUSTOMARY MEASUREMENTS ONLY)					

REVISIONS			
LTR	DESCRIPTION	DATE	APVD
A	RLW443	05/11/2001	N.S.
B	RM9303	07/09/2001	N.S.
C	RM2893	08/16/2001	CDP
D	RM6659	09/25/2001	NS

REDC

NEXT ASSY: UNIKHON TYPE NO: DNE-1000

ROCKWELL PROPRIETARY INFORMATION.

PREP BY: [] CHK BY: [] DATE: []			
ROCKWELL COLLINS, INC 440 COLLINS ROAD NE, CEDAR RAPIDS, IOWA 52406			
CIRCUIT CARD ASSEMBLY, DSP / POWER SUPPLY			
QTY: [] DATE: []	QTY: [] DATE: []	QTY: [] DATE: []	QTY: [] DATE: []
SHEET 1 OF 12			

CREATED ON Sep 25 2001 14:29:26

1 148 913-0885-640	CAPACITOR, 470 pF	C289	1 116 835-0253-030	IC, UCC2804	U115
6 147 913-0885-320	CAPACITOR, 330 pF	C144,153,154,159,166	5 115 835-0202-020	IC, 33078	U102,104-107
		257	4 114 834-5031-060	CAPACITOR, 0.1	C1,2,100,101
1 146 913-0885-300	CAPACITOR, 220 pF	C10	12 113 834-5019-090	CAPACITOR, 0.01	C15,102-108,110,171,205,212
18 144 913-0885-260	CAPACITOR, 100 pF	C3,5-7,11,12,41,142,143,150,152,160,164,175,279,281,284,285	1 112 834-5019-050	CAPACITOR, 0.1	C283
		C170	10 111 834-5005-990	CAPACITOR, 1	C29,31,268-272,274,275,277
1 143 913-0885-220	CAPACITOR, 47 pF	C282,287,289,290	1 110 834-5005-370	CAPACITOR, 0.1	C291
4 142 913-0885-140	CAPACITOR, 10 pF	C16,17,19,21,24,26,39,43,44,111,114,116,119,121-125,129-131,133,135-137,141,146,147,151,155,157,158,161,162,172,178,179,181,182,184-186,189,190,192,195,197,199,200,203,204,207,209,210,212,213,215,217,218,220,221,228,233-238,240,241,243,245,247-251,253,254,256,258,259,261,262,264-267,273,280	14 109 834-2008-140	CAPACITOR, 4.7	C113,105,174,187,201,202,211,222,227,229,239,244,252,255
			12 108 834-2008-120	CAPACITOR, 3.3	C4,13,18,109,112,117,118,120,148,196,190,183
1 140 859-5534-220	CONN,ELEC	JA	2 107 834-1037-450	CAPACITOR, 220	C45,46
1 139 859-4890-100	CONN,ELEC	JI	1 106 834-1037-370	CAPACITOR, 39	C33
1 138 859-4890-080	CONN,ELEC	J2	15 105 833-6526-550	RESISTOR, 36.5	R3,110-116,121-127
1 137 849-0028-190	COIL, 3.3	L1	1 104 833-6083-170	RESISTOR, 0.35	R370
1 136 844-2004-030	DIODE, 1403	CR119	4 103 833-6083-120	RESISTOR, 0.05	R57,380,385,388
2 135 844-0124-370	DIODE, 1MS24714T1	VR105,107	1 102 833-6009-110	RESISTOR, 10 k	R276
4 134 844-0124-220	DIODE, 1MS24699T1	VR24,104,109,111	4 101 833-6009-020	RESISTOR, 5.11	R389,391,392,394
1 133 844-0123-260	DIODE, 1SM859408T3	VR106	1 100 833-4004-820	RESISTOR, 5.11	R58
1 132 844-0123-190	DIODE, 1SM859428T3	VR23	2 99 833-4004-150	RESISTOR, 0.196	R67,68
1 131 844-0123-180	DIODE, 1SM859418T3	VR103	REF 98 828-8772-002	SCHEMATIC	
1 130 844-0123-150	DIODE, 1SM859358T3	VR22	2 97 705-3540-330	RESISTOR, 200	R418,423
2 129 844-0123-110	DIODE, 1SM859278T3	VR101,106	2 96 705-3539-900	RESISTOR, 61.9	R128,129
1 128 844-0123-040	DIODE, 1SM859186T3	VR102	1 95 705-3539-140	RESISTOR, 1.0	R422
2 127 844-0122-020	DIODE, MURS160T3	CR3,114	16 94 705-3537-290	RESISTOR, 2 k	R1,2,4,100-103,117,118,132
1 126 844-0097-240	DIODE, 1MC33A	VR110	2 93 705-3537-170	RESISTOR, 1.5 k	R414,424
4 125 844-0087-020	DIODE, MBR0360	CR113,115,116,118	4 92 705-3537-060	RESISTOR, 1.21 k	R119,130,131,149
5 124 844-0068-010	IC, MSMS-2805	U32,116,117,119,120	10 91 705-3535-270	RESISTOR, 12.1 k	R5,6,120,135,136,161-164,259
1 123 844-0005-030	DIODE, MBR5130LT3	CR112	7 90 705-3205-540	RESISTOR, 243 k	R71,72,268,269,271,411,415
1 122 844-0004-020	DIODE, 320	CR117	2 89 705-3205-410	RESISTOR, 130 k	R413,428
4 121 843-9128-010	TRANSISTOR, MMT5550	Q1,2,100,101	1 88 705-3205-170	RESISTOR, 37.4 k	R28
1 120 843-7523-030	TRANSISTOR, IRT9940MS	Q3	2 87 705-3205-110	RESISTOR, 27.4 k	R12,430
2 119 843-7016-020	TRANSISTOR, IRT9530S	Q4,5	7 86 705-3205-090	RESISTOR, 24.3 k	R65,70,397,399,402,420,432
1 118 843-7007-020	TRANSISTOR, IRTF110	Q108	1 85 705-3205-020	RESISTOR, 18.2 k	R236
3 117 843-2002-020	TRANSISTOR, MMT5551	Q6,107,110	2 84 705-3204-630	RESISTOR, 3.05 k	R209,218
			2 83 705-3204-590	RESISTOR, 3.01 k	R320,333
			4 82 705-3204-560	RESISTOR, 2.74 k	R11,19,219,220
			1 81 705-3204-400	RESISTOR, 1.3 k	R413
			1 80 705-3204-140	RESISTOR, 392	R227
			3 79 705-3204-070	RESISTOR, 301	R39,356,357
			1 78 705-2433-980	RESISTOR, 150	R62

QTY	ITEM	INQ.	PART OR IDENT NO.	NOMENCLATURE OR DESCRIPTION	NOTES	REF DESIGNATORS
PARTS LIST (US CUSTOMARY MEASUREMENTS ONLY)						

ROCKWELL COLLINS, INC
400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52408

PREP: LOVE
CHK: F. SCHLISE

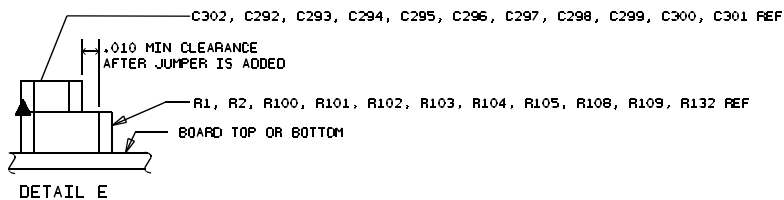
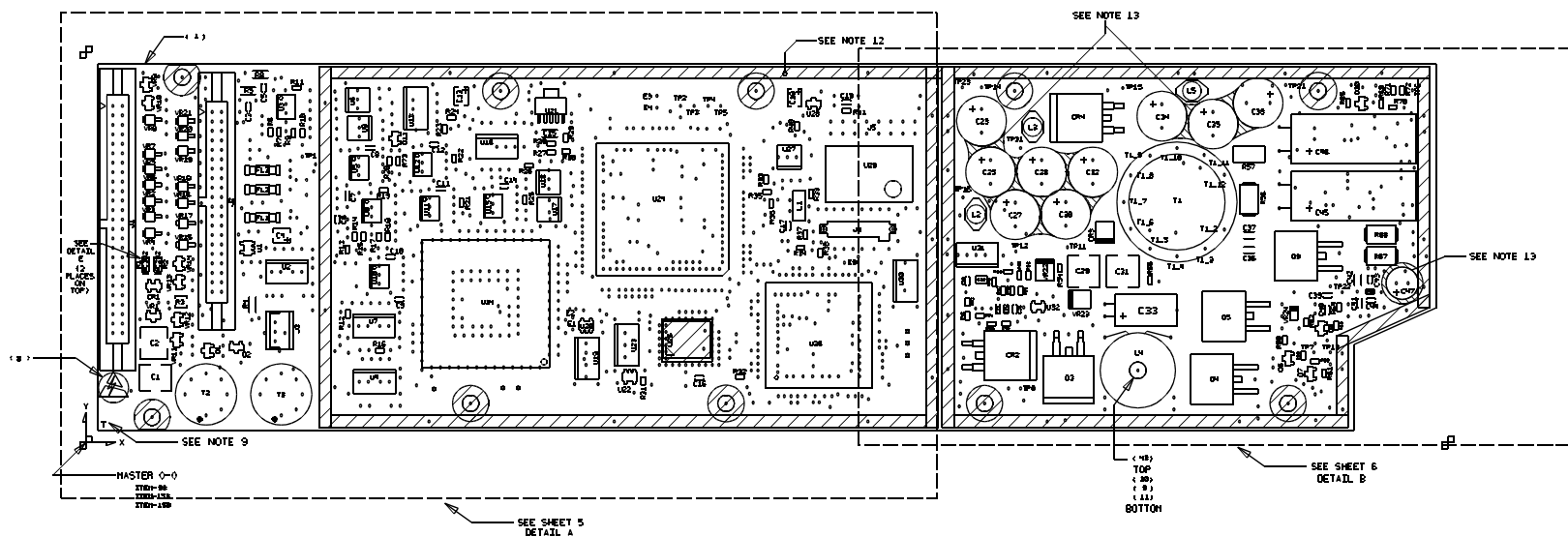
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QTY: 1
828-3372-002

REV: 0
SHEET: 2

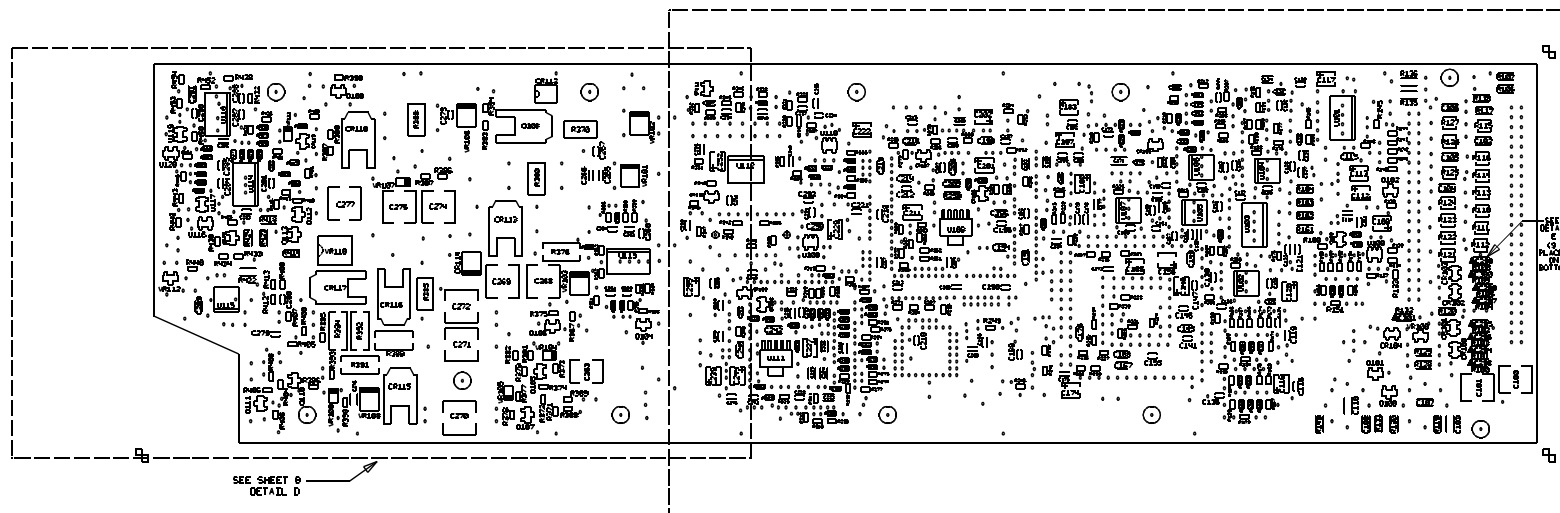
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DIGITAL DATA ONLY, NO PAPER TRACING.



ROCKWELL COLLINS, INC			
1400 COLLINS ROAD NE, CEDAR RAPIDS, IOWA, 52498			
PREP BY LOVE	SIZE 1 USE CODE	DWG NO.	REV
CH: R. SCHLISE	D 4V792	828-3372-002	0
SCALE NONE	SHEET 3		

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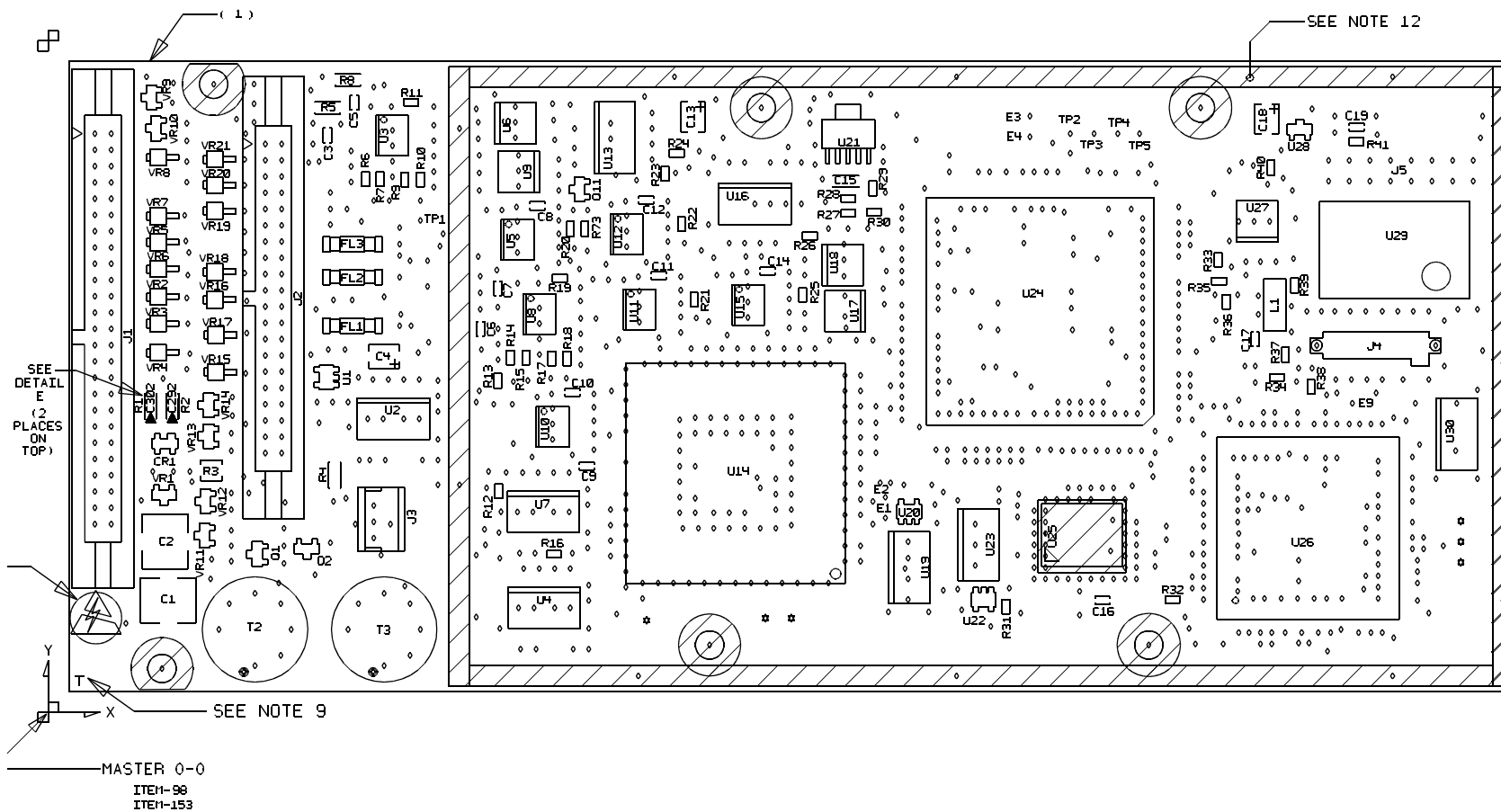


COMPONENTS BOTTOM

SEE SHEET 7
DETAIL C

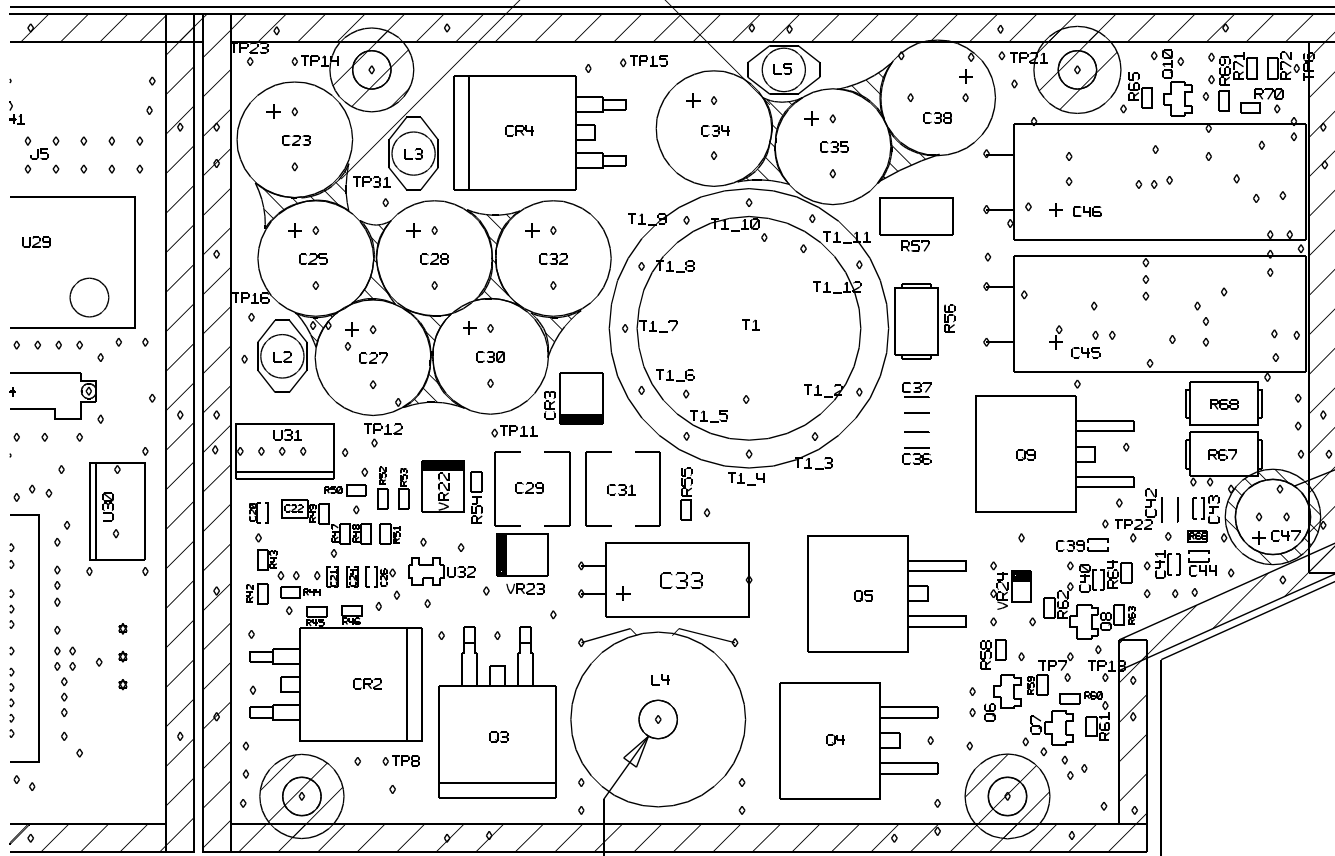
SEE SHEET 6
DETAIL D

ROCKWELL COLLINS, INC			
1400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52498			
PREP BY LOVE	SIZE	DATE	REV
D 4V792	D	828-3372-002	0
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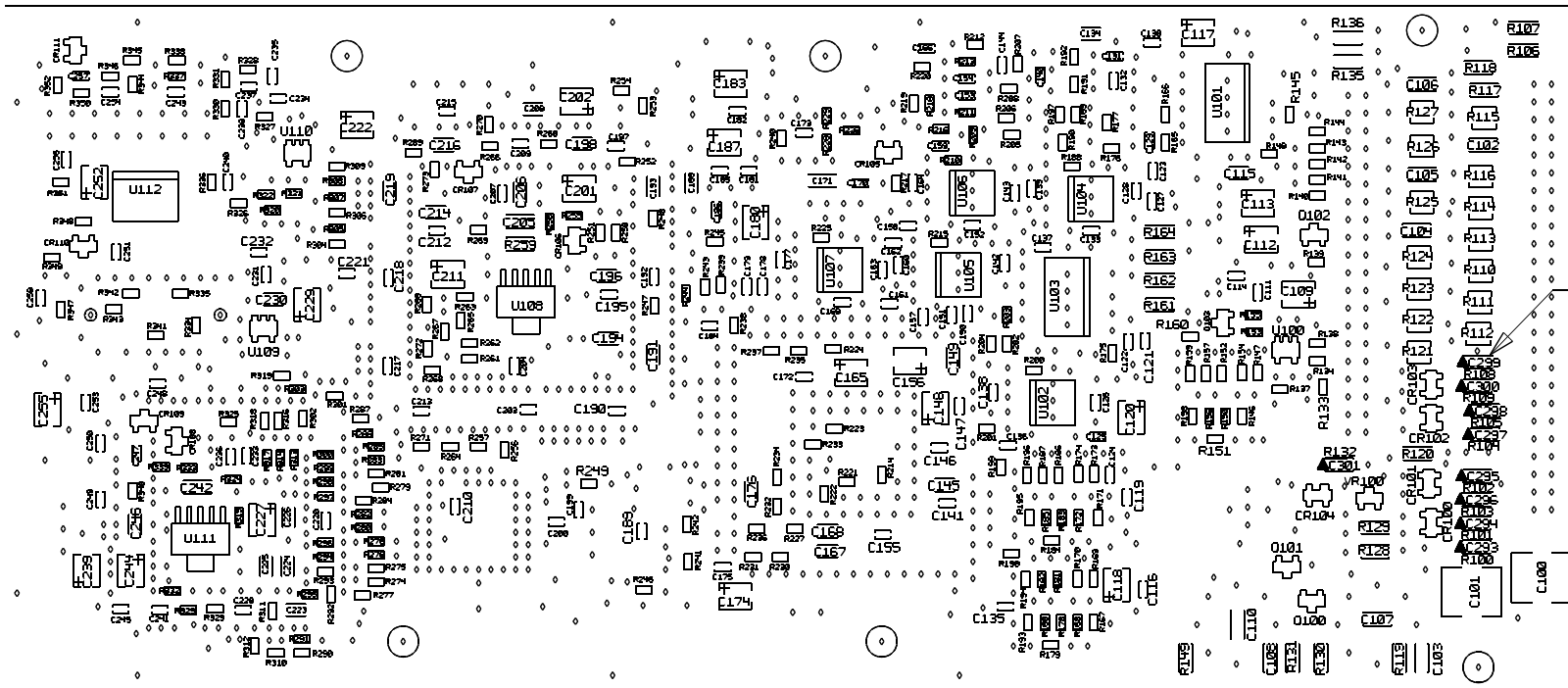
ASSEMBLY DETAIL A

ROCKWELL COLLINS, INC			
1400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52498			
PREP BY LOVE	SIZE 1/8" X 1/8"	DWG NO.	REV
CHK BY SCHULZE	D 4V792	828-3372-002	0
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DIGITAL DATA ONLY, NO PAPER TRACING.			



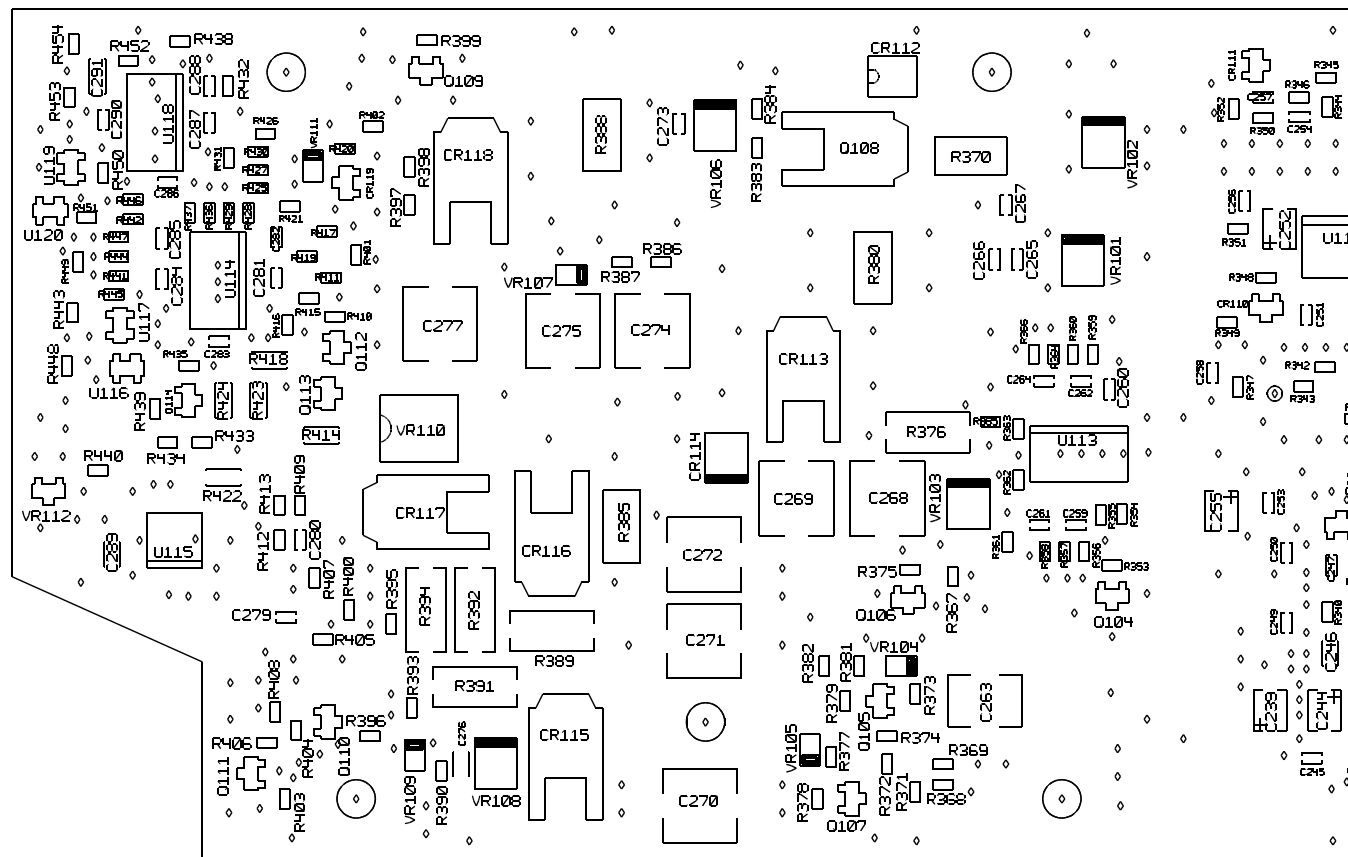
— SEE NOTE 13

ASSEMBLY DETAIL B



ASSEMBLY DETAIL C

				ROCKWELL COLLINS, INC			
				1400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52498			
PREP BY LOVE		SIZE		CASE CODE		DWG NO.	
25-Sep-2001		D		4V792		828-3372-002	
						REV	
		CHK BY SCHULZE		SCALE		LTH D	
ROCKWELL PROPRIETARY INFORMATION.				NONE		SHEET 7	
DIGITAL DATA ONLY, NO PAPER TRACING.							



ASSEMBLY DETAIL D

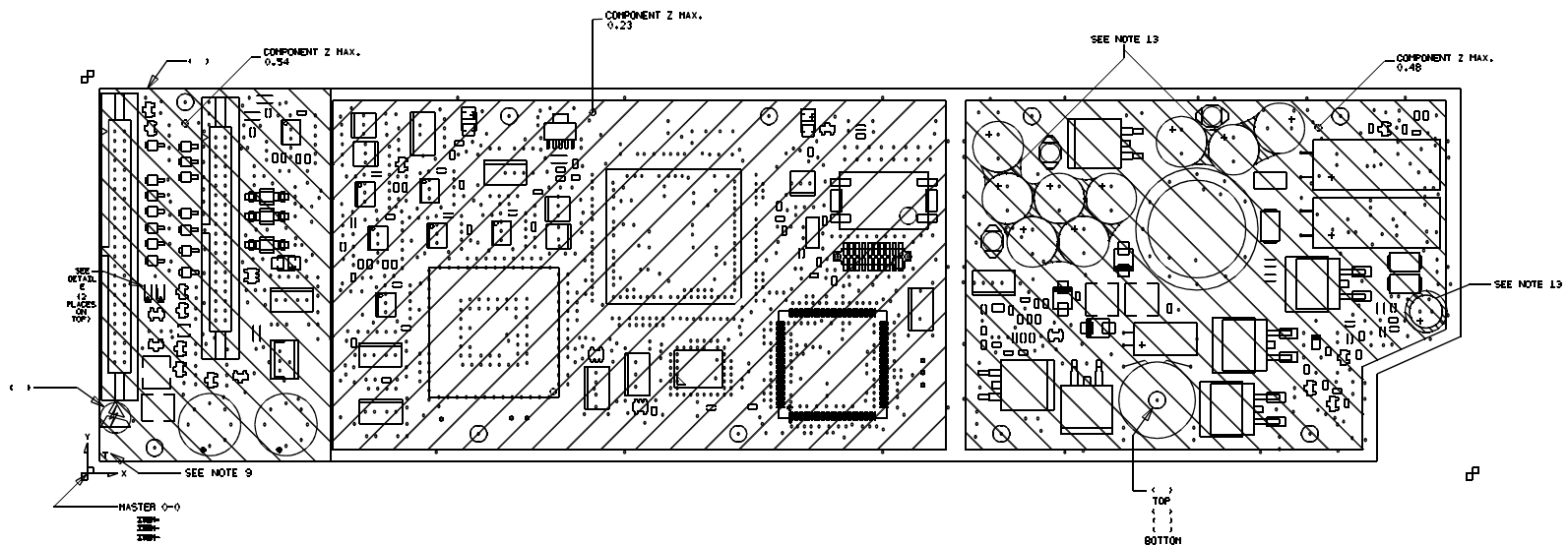
ROCKWELL COLLINS, INC

1400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52408

PREP BY LOVE	DWG NO.	REV
DATE 2-SEP-2001	D 4V792	0
CHE BY SCLARISE	SCALE NONE	SHEET 3

ROCKWELL PROPRIETARY INFORMATION.

DIGITAL DATA ONLY, NO PAPER TRACKING.



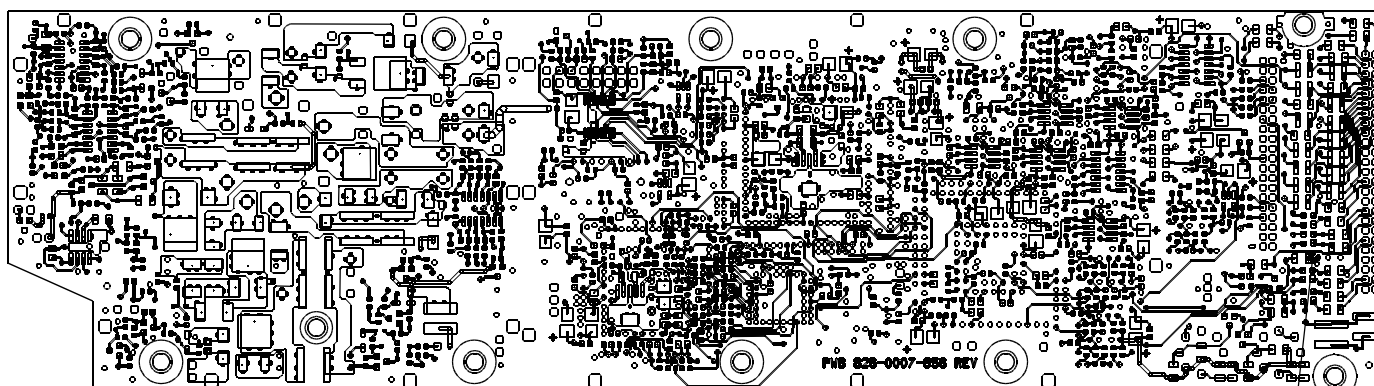
Z TOP DIMENSIONS

ROCKWELL COLLINS, INC			
1400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52498			
PREP BY LOVE	SIZE 1/8" X 1/8"	DWG NO.	REV
DATE 2-20-2001	D 4V792	828-3372-002	0
CHK BY SCHULZE	SCALE NONE	SHEET	3

DIGITAL DATA ONLY, NO MASTER TRACING.

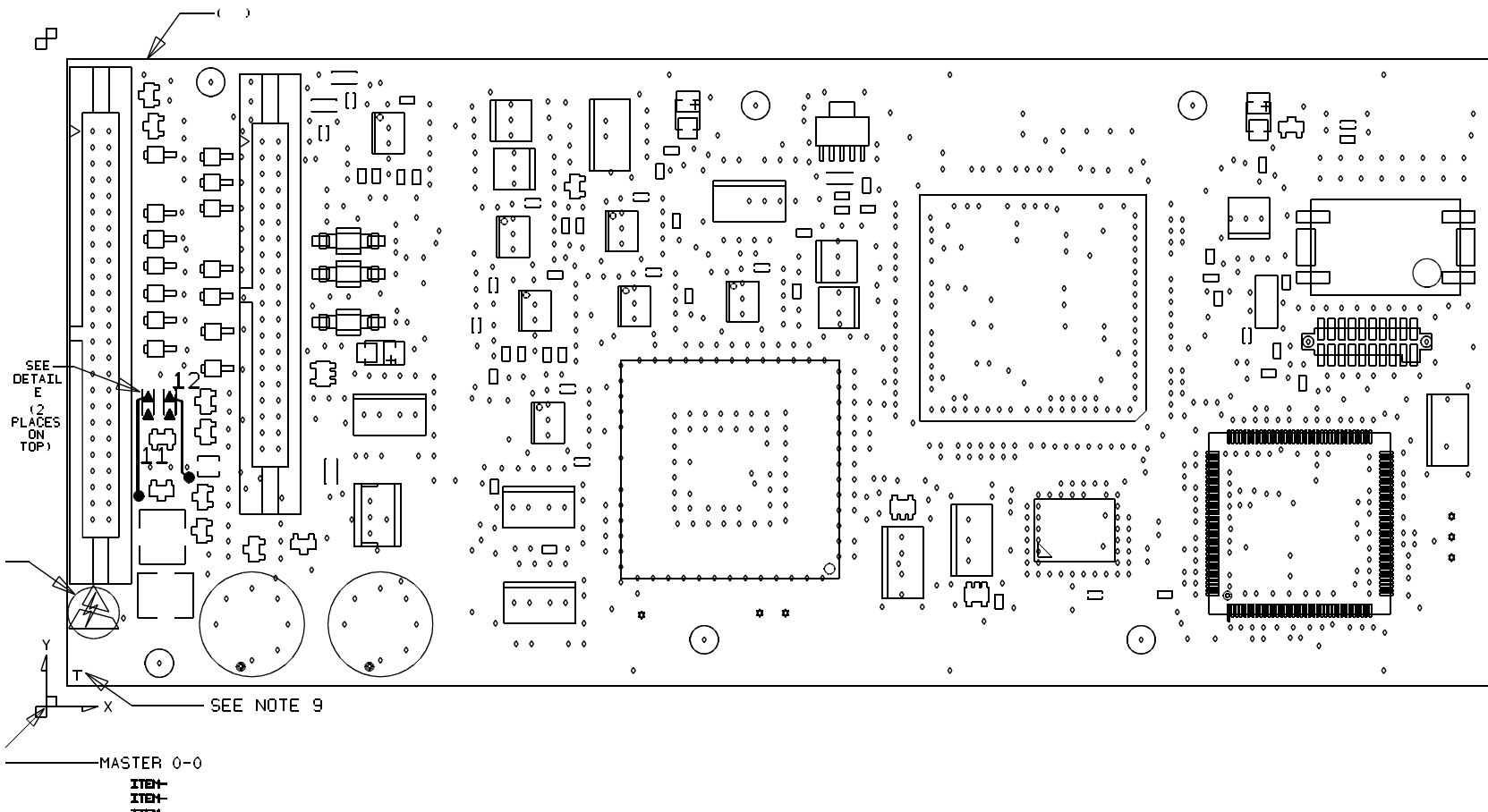
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CUT LTR	CUT LYR	X=	Y=
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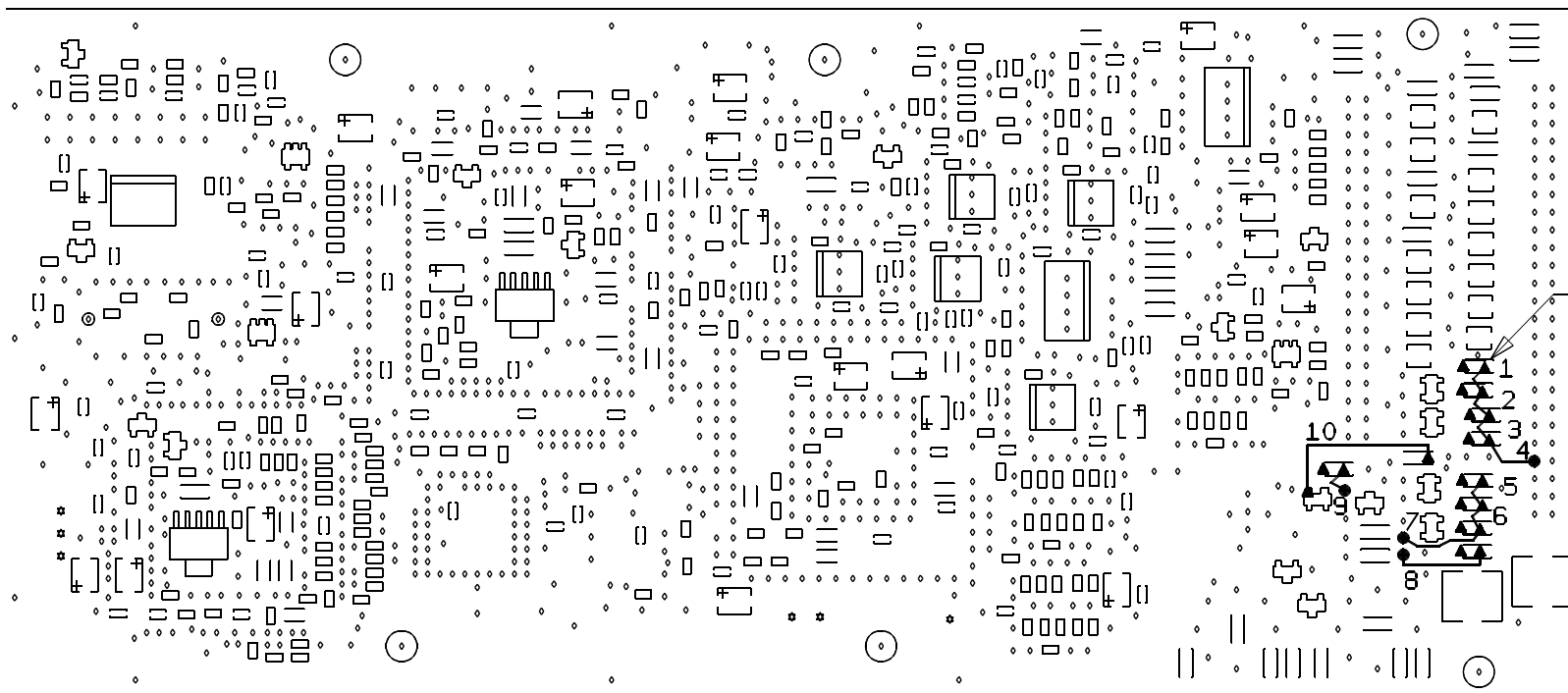
CUTS BOTTOM

ROCKWELL COLLINS, INC			
1400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52498			
PREP	DATE	DWG NO.	REV
D	27-SEP-2001	828-3372-002	0
CHK	BY	SCALE	SHEET
	P. SCHLISE	NONE	10
ROCKWELL PROPRIETARY INFORMATION.			
DIGITAL DATA ONLY, NO PAPER TRACING.			



JUMPERS TOP

				ROCKWELL COLLINS, INC			
				400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52498			
PREP BY LOVE		SIZE		CAGE CODE		DWG NO.	
25-SEP-2001		D		4V792		828-3372-002	
CHK BY SCHLISE		SCALE		NONE		REV	
						LTW D	
ROCKWELL PROPRIETARY INFORMATION.							
DIGITAL DATA ONLY, NO PAPER TRACING.							



SEE
DETAIL
E
(9
PLACES
ON
BOTTOM)

JUMPERS BOTTOM

				ROCKWELL COLLINS, INC			
				400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52498			
PREP BY LOVE		SIZE		DRG NO.		REV	
27-SEP-2001		D		4V792		828-3372-002	
CHK BY SCHULZE		SCALE		NONE		SHEET 12	
ROCKWELL PROPRIETARY INFORMATION.				DIGITAL DATA ONLY, NO PAPER TRACING.			