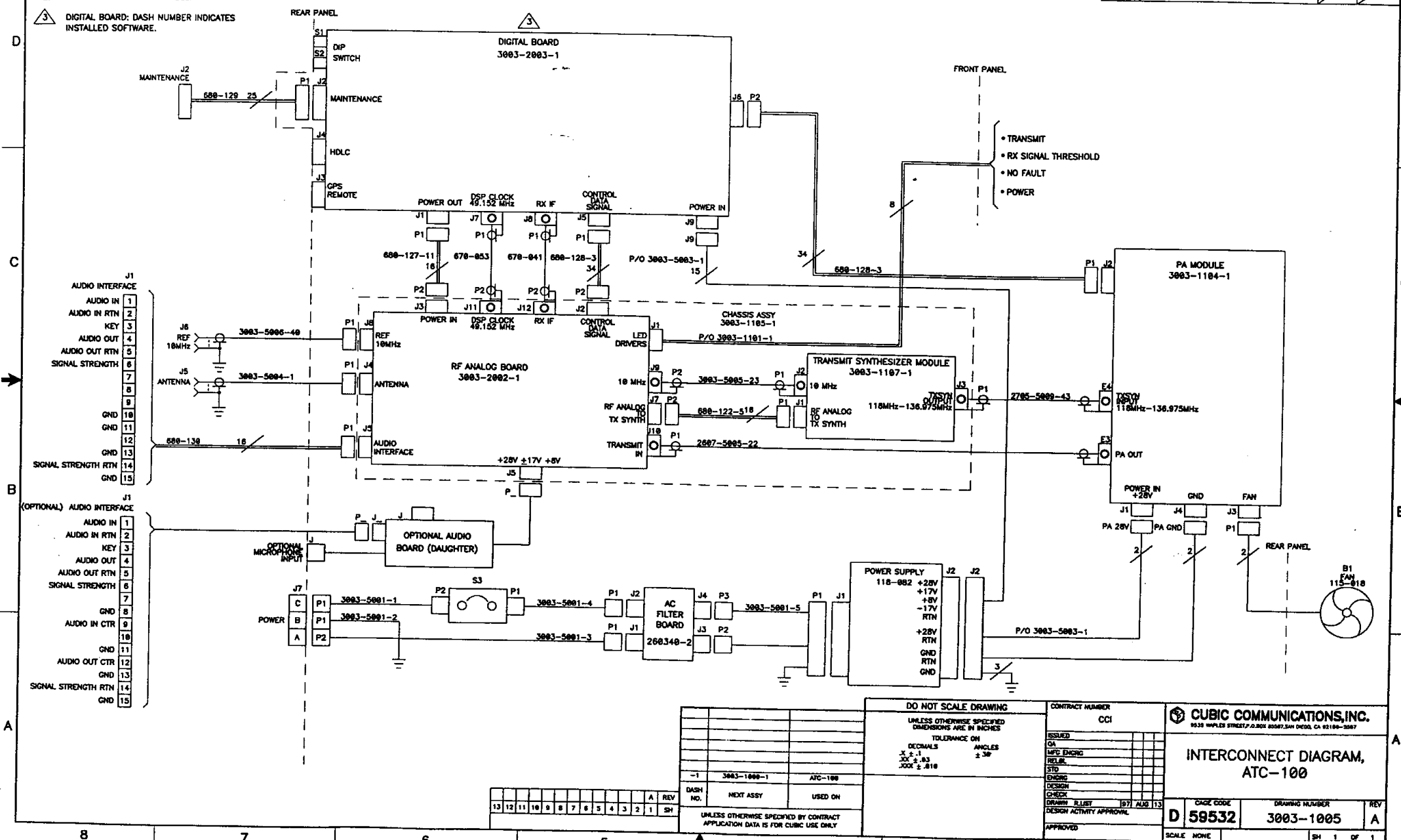


NOTES: UNLESS OTHERWISE SPECIFIED

1. $\times$ INDICATES NUMBER OF CONDUCTORS IN CABLE.
2. $\equiv$ INDICATES RIBBON CABLE.
3. DIGITAL BOARD: DASH NUMBER INDICATES INSTALLED SOFTWARE.

DRAWING NO.		REV		DATE		APPROVED	
3003-1005		1		1		A	
ZONE		LIT		DESCRIPTION		DATE	
A		DCR 727895: INITIAL RELEASE.		R.LIST 98-10-01			



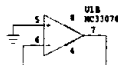
DO NOT SCALE DRAWING		CONTRACT NUMBER		CUBIC COMMUNICATIONS, INC.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CCI		1030 WIMPLE STREET, P.O. BOX 85007, SAN DIEGO, CA 92186-3507	
TOLERANCE ON DECIMALS .X ± .1 .XX ± .03 XXX ± .010		ISSUED ON MFG ENGRG REL. STD ENGRG CHECK DESIGN DRAWN BLIST DESIGN ACTIVITY APPROVAL		INTERCONNECT DIAGRAM, ATC-100	
UNLESS OTHERWISE SPECIFIED BY CONTRACT APPLICATION DATA IS FOR CUBIC USE ONLY		CAGE CODE D 59532		DRAWING NUMBER 3003-1005	
SCALE: NONE		REV A		SH 1 OF 1	

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NOTES: UNLESS OTHERWISE SPECIFIED

- INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100.
- CAUTION: CONTAINS PARTS & ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD). REFER TO MIL-STD-1486 AND MIL-HDBK-243 FOR PROTECTIVE HANDLING, PACKAGING AND PROCESSING PROCEDURES.
- PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATIONS PREPARE WITH UNIT NUMBER AND SUBSTRATE DES.
- CAPACITANCE VALUES ARE IN MICROFARADS (UF) +/- 10%.
- INDUCTANCE VALUES ARE IN MICROHENRIES (UH) +/- 10%.
- RESISTANCE VALUES ARE IN OHMS. 5% 1/10 WATT.
- INDICATES SIGNAL IS ACTIVE LOW OR IS FALLING EDGE CLOCK.
- CROSS REFERENCE OF SIGNALS BETWEEN SHEETS IS INDICATED AS FOLLOWS:

SHEET NO. 1 OF 1

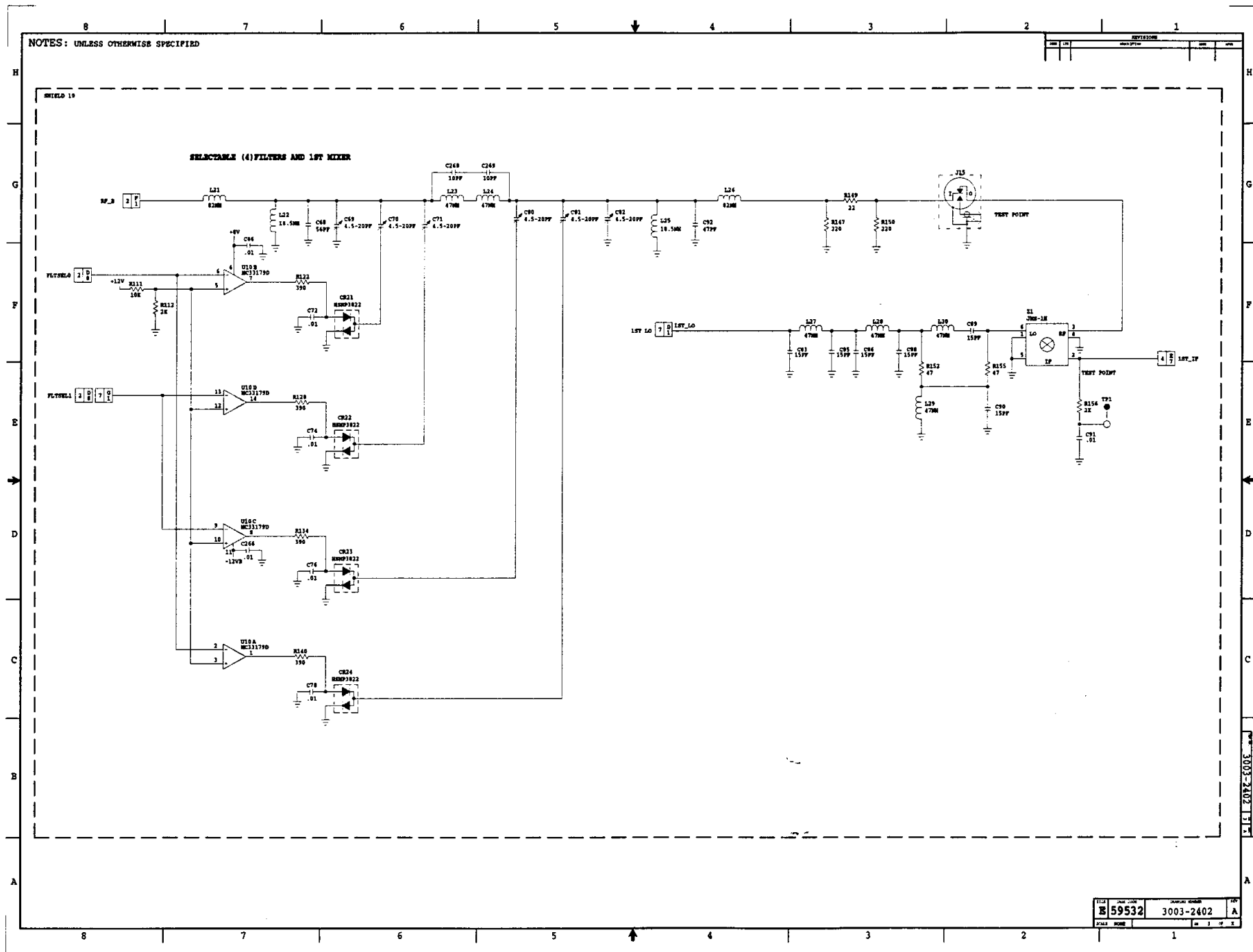


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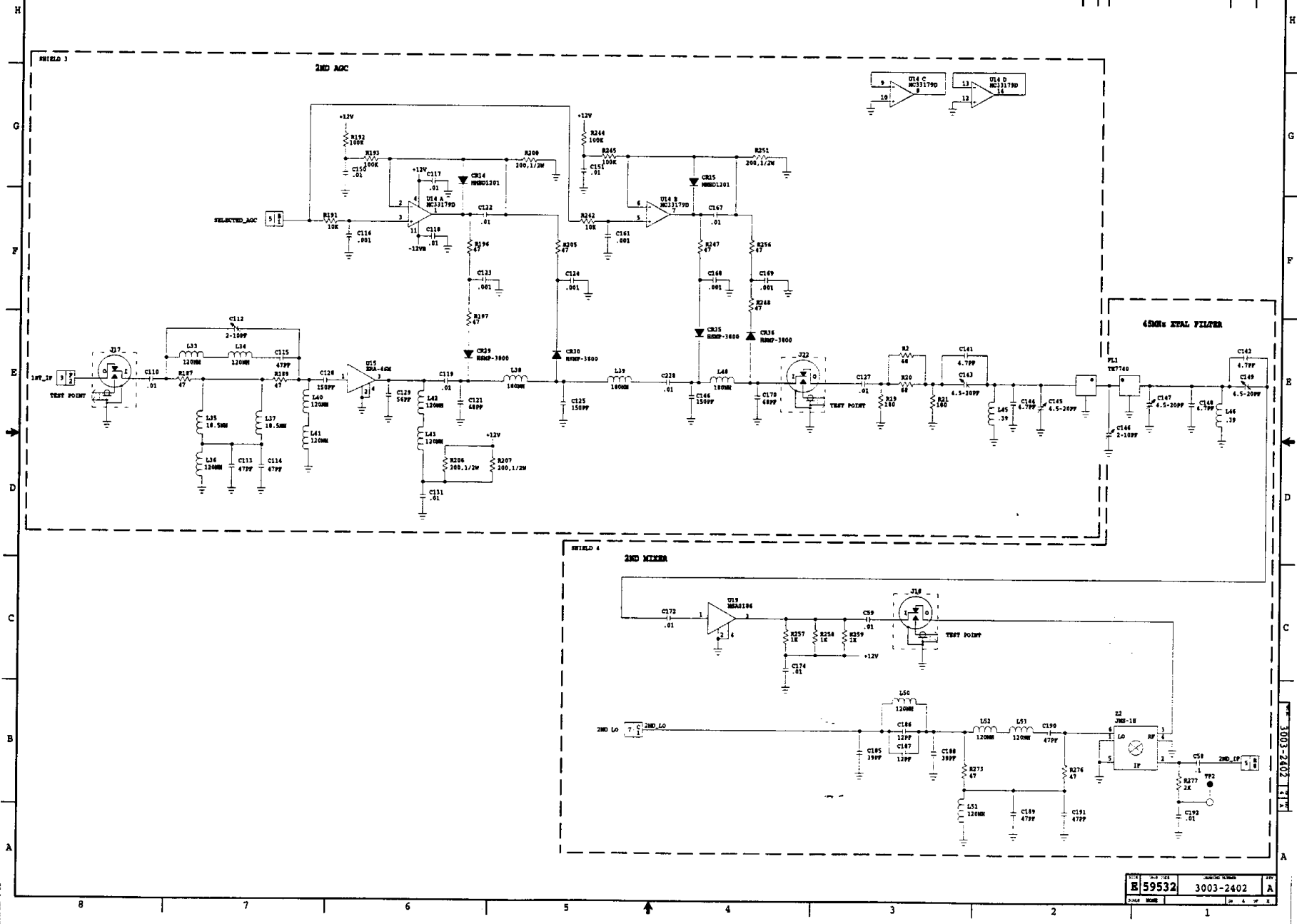
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DIVISIONS				
ARMY	NAVY	AIR FORCE	COAST GUARD	OTHER





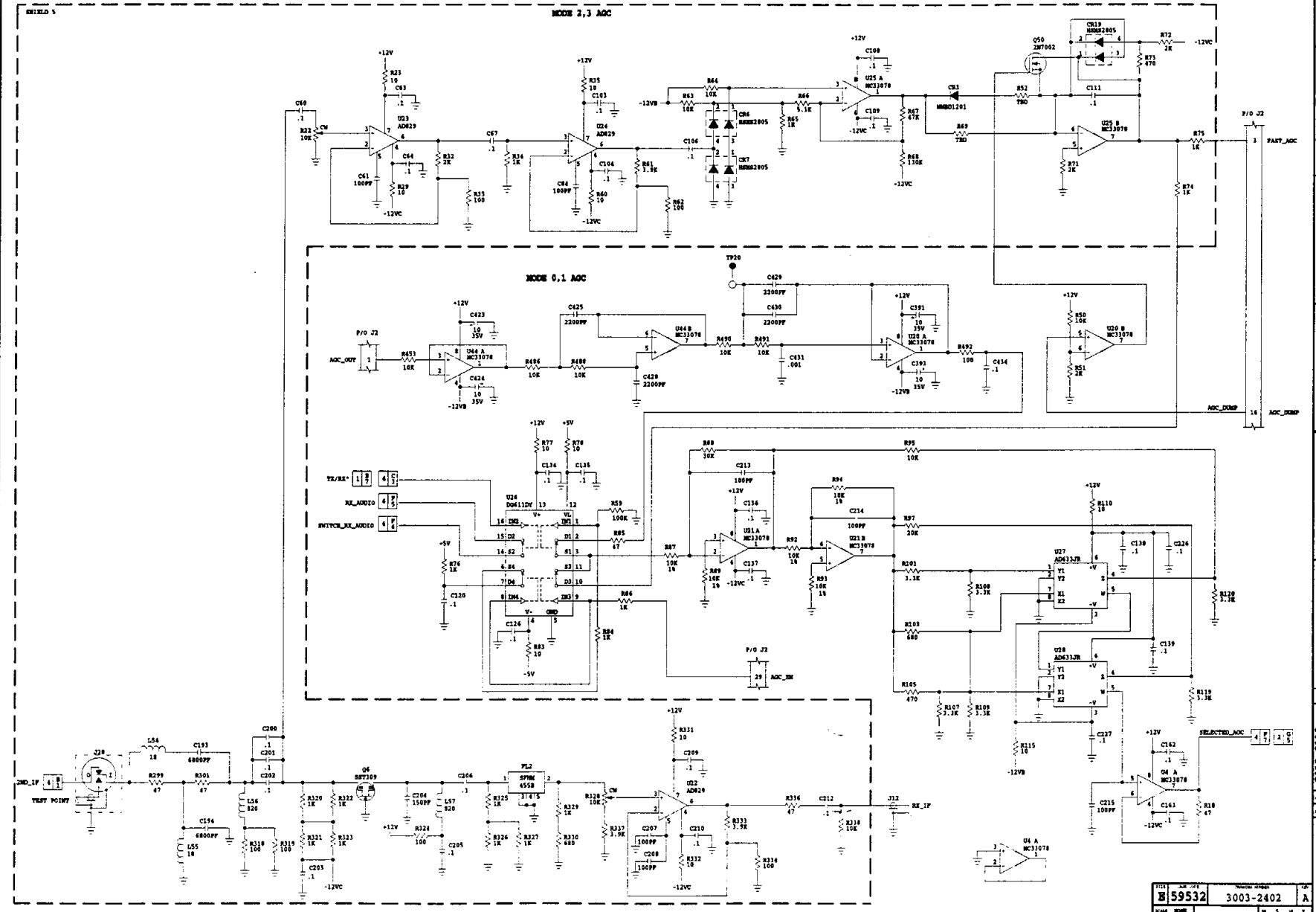
NOTES: UNLESS OTHERWISE SPECIFIED

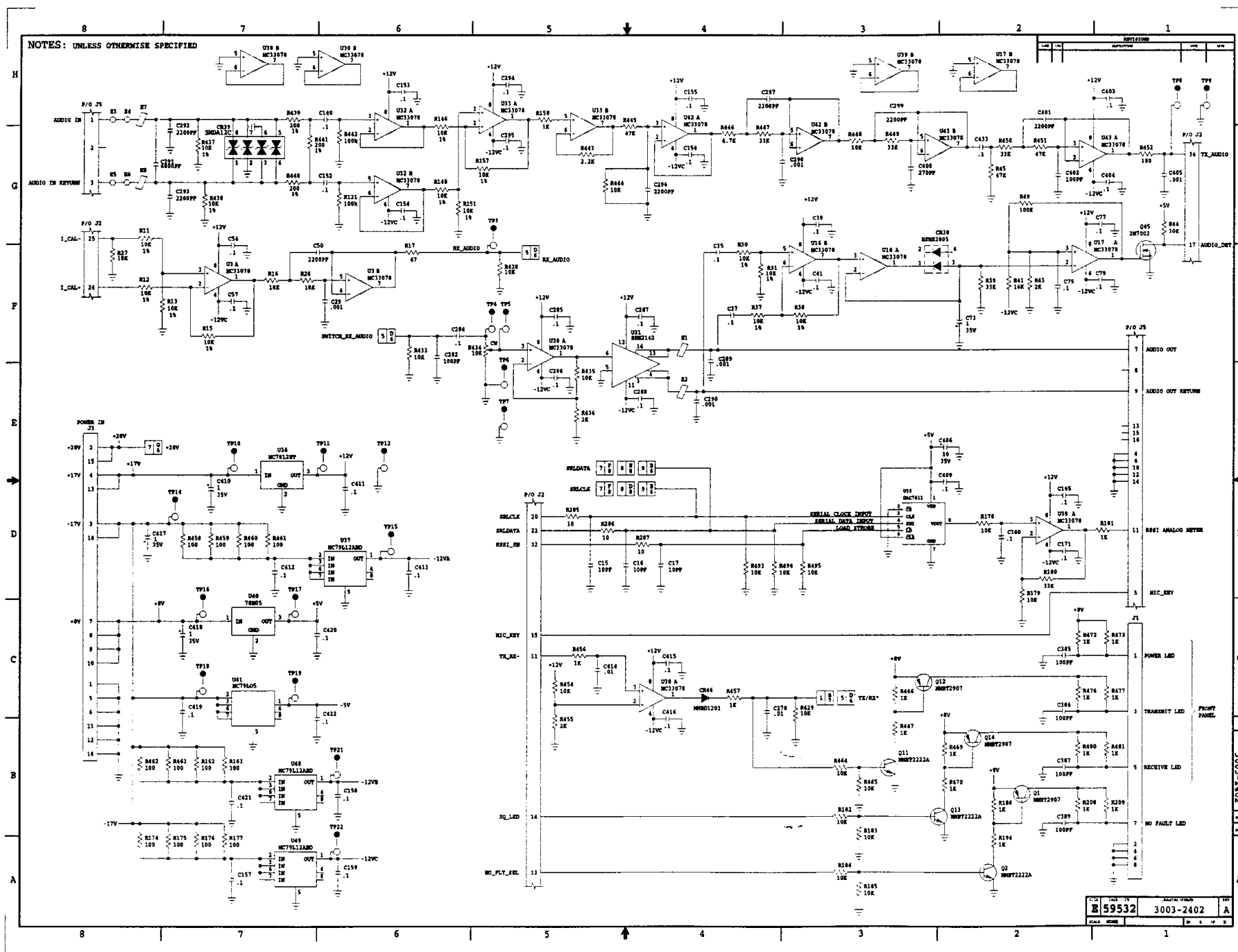


59532 3003-2402 A

5

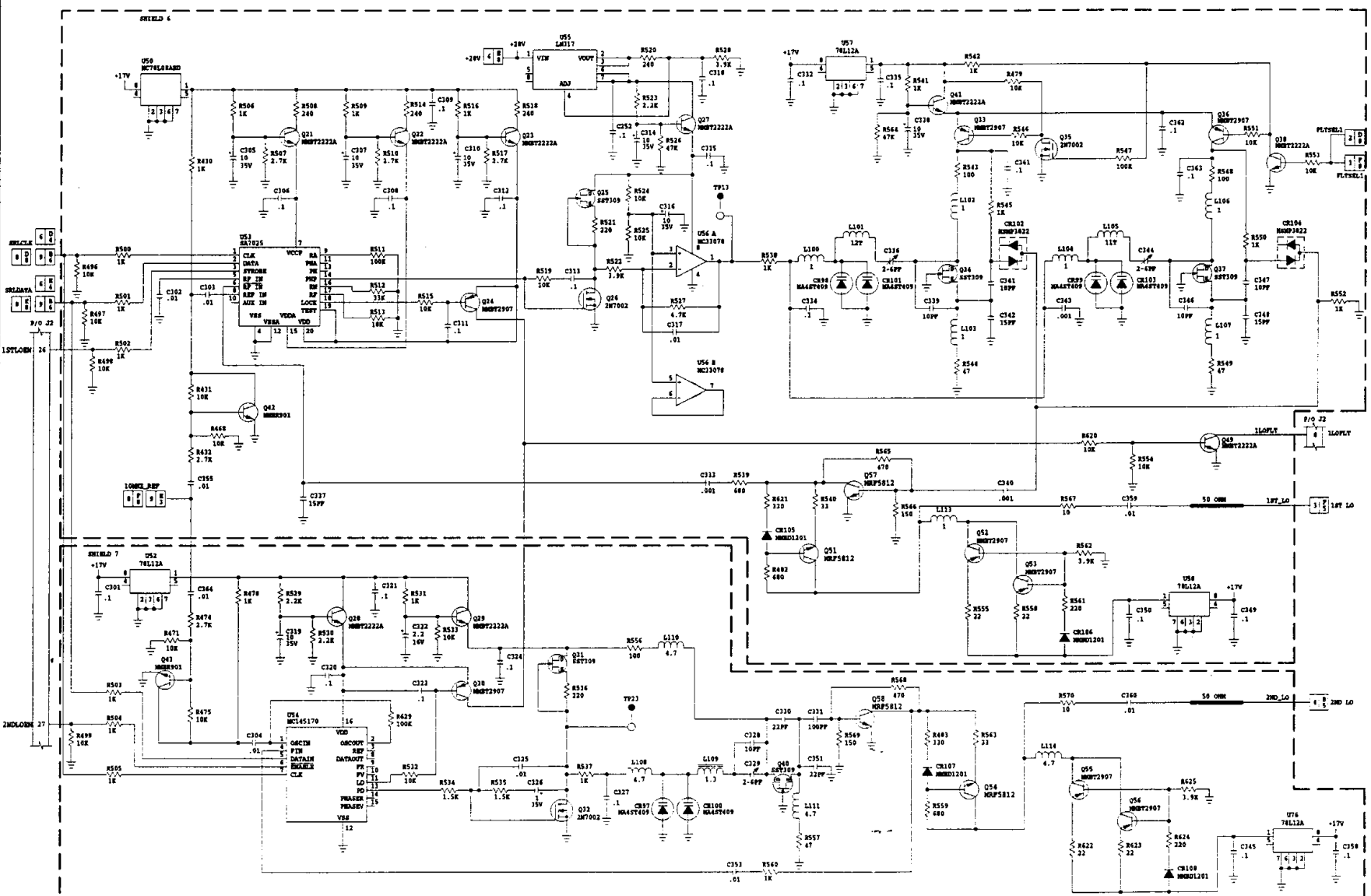
NOTES: UNLESS OTHERWISE SPECIFIED

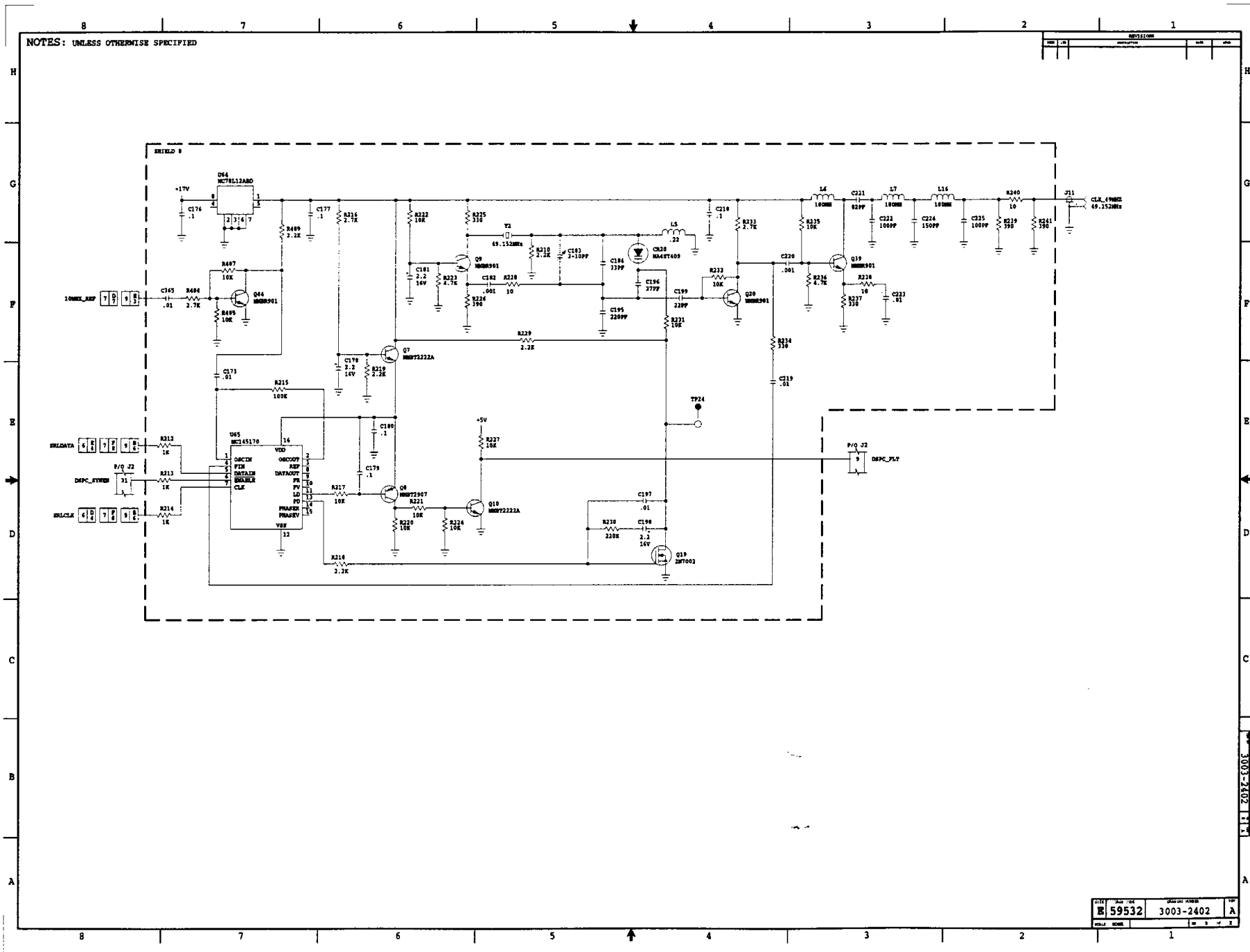




NOTES: UNLESS OTHERWISE SPECIFIED

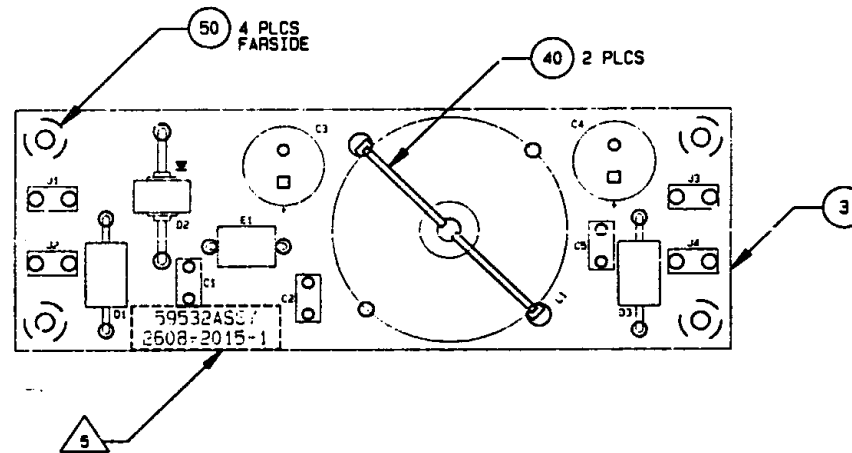
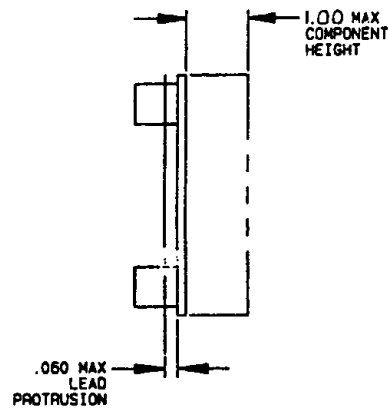
1ST & 2ND LO'S





NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DRAWING IN ACCORDANCE WITH DDD-STD-100.
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
3. REFERENCE SCHEMATIC DIAGRAM 2608-2415.
4. SOLDER WORKMANSHIP ONLY PER MIL-STD-2000. USE SOLDER IN ACCORDANCE WITH OPERATING INSTRUCTIONS 400.9 AND 600.4.
5. RUBBER STAMP, OR EQUIVALENT, ASSY NO., REV LTR AND SERNO IN .06 TO .13 HIGH CHARACTERS PER MIL-STD-130, USING FIND NO. 8, OR EQUIVALENT. LOCATE APPROX WHERE SHOWN.
6. TERMINATE THRU LEADS USING UNCLINCHED LEAD ATTACHMENT.



1 -1 ASSEMBLY
(CMPNT SIDE VIEW)

SEE SEPARATE PARTS LIST

REV	1	2	3	4	5	6	7	8	9	10	11	12	13
SH													

DASH NO.	NEXT ASSY	USED ON
-4	2608-1000-1	CDR-3374
-1	2608-1000-1	CDR-3370
UNLESS OTHERWISE SPECIFIED BY CONTRACT APPLICATION DATA IS FOR CUBIC USE ONLY		

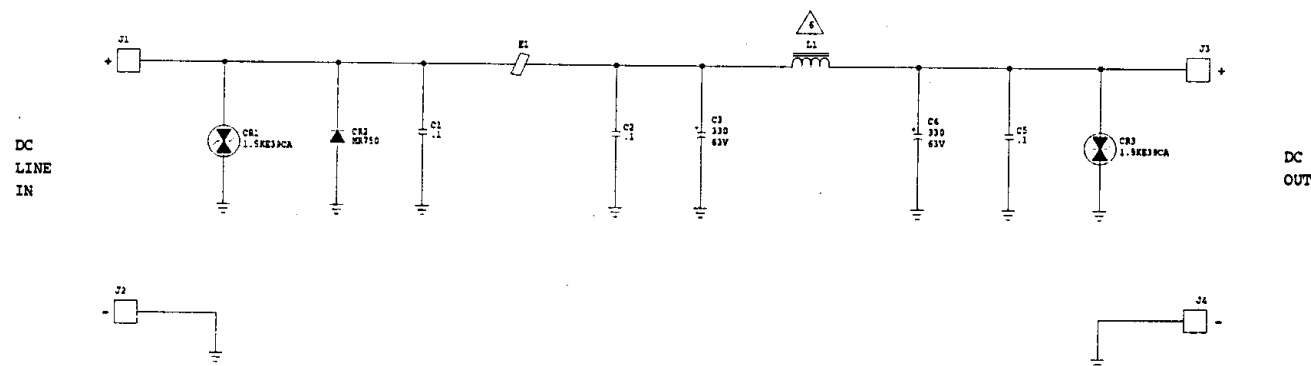
DO NOT SCALE DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCE ON	
DECIMALS	ANGLES
.X ±.1	± 30°
.XX ±.03	
.XXX ±.010	

CONTRACT NUMBER		CUBIC COMMUNICATIONS, INC.	
4285 PONDEROSA AVE., P.O. BOX 85587, SAN DIEGO, CA 92138-55			
ISSUED		PRINTED WIRING ASSEMBLY DC LINE FILTER	
QA			
DESIGN		DRAWING NUMBER	
STD			
CHECK		SCALE	
MARK CHAN 97 JAN 31			
DESIGN ACTIVITY APPROVAL		SH 1 1/2 1	
APPROVED			

200	170	10-11-70	200	170
	A	DOE 727920: INITIAL RELEASE. RUCIST 08-09-10		

-

DASH	CURRENT RATING	VALUE
-1	7 AMPS	150
-2	15 AMPS	60



REFERENCE DESIGNATIONS LAST USED	REFERENCE DESIGNATIONS NOT USED
C5	
C83	
E1	
J6	
L1	

[illegible]

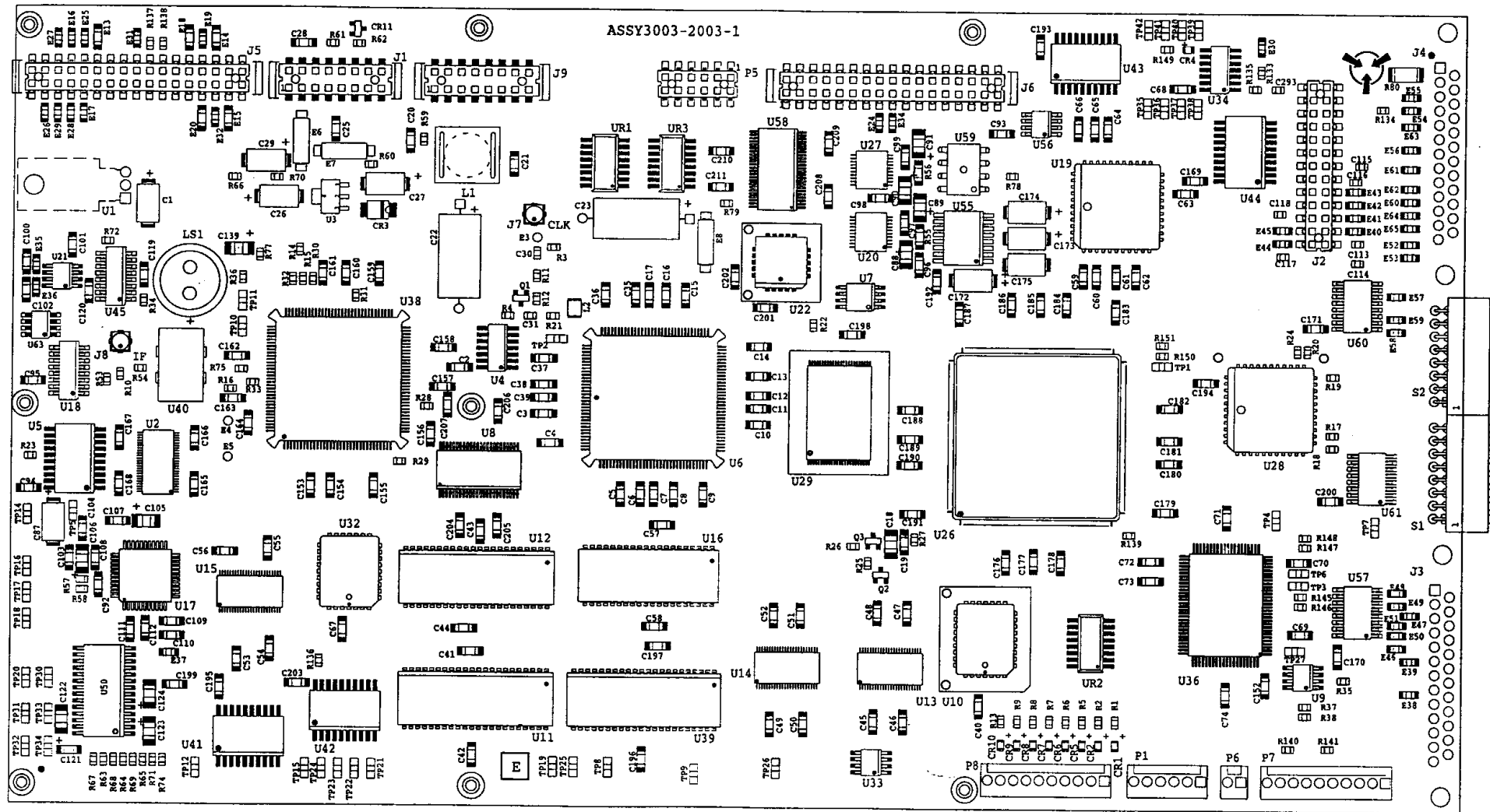
PRELIMINARY 98-09-10

⑤ CUBIC COMMUNICATIONS, INC.

SCHEMATIC DIAGRAM,
DC LINE
FILTER

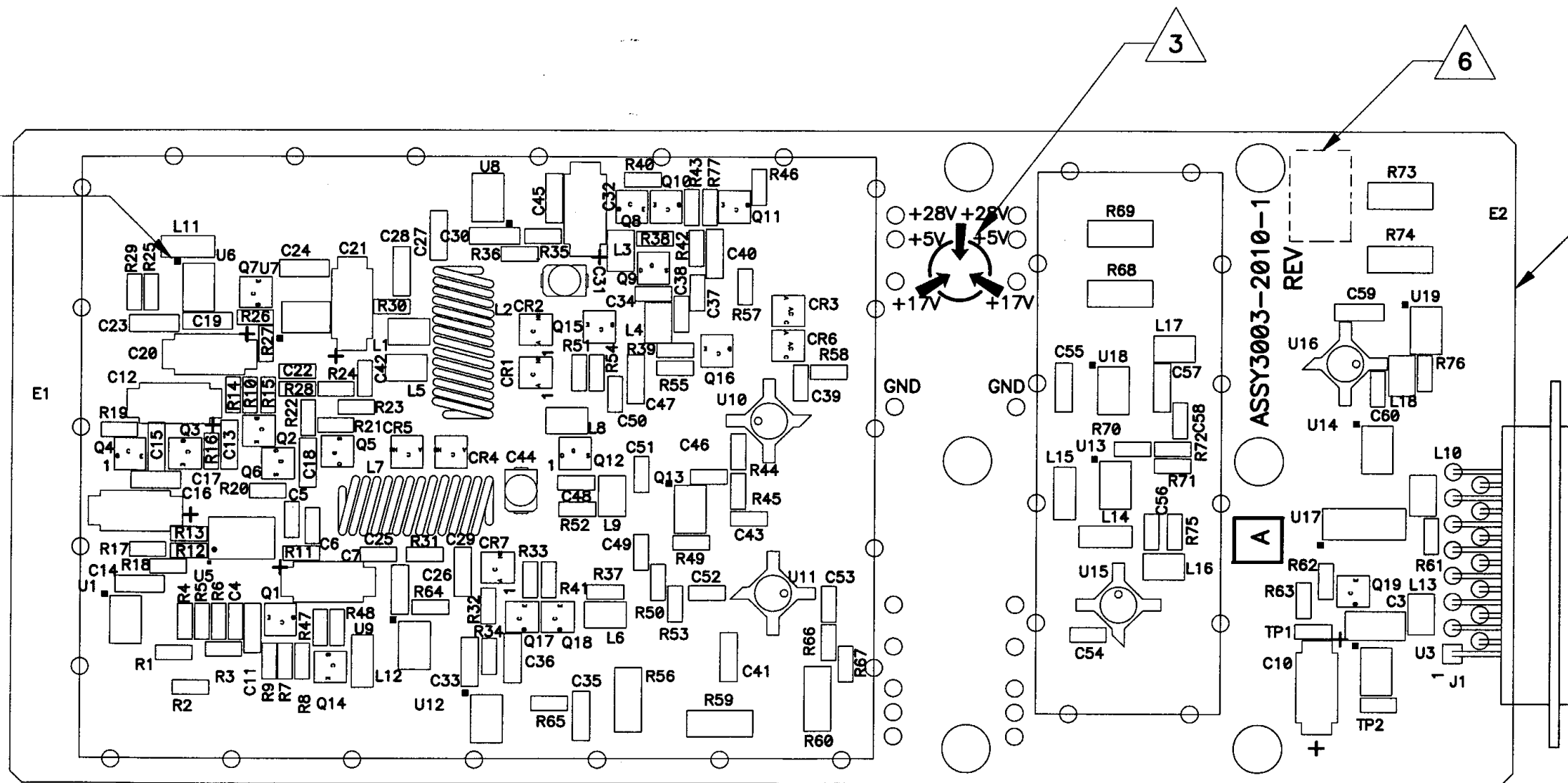
DATE	TIME	LOCATION	REMARKS
10/10/10	150532	2608 2415	

12



SCREEN MASTER

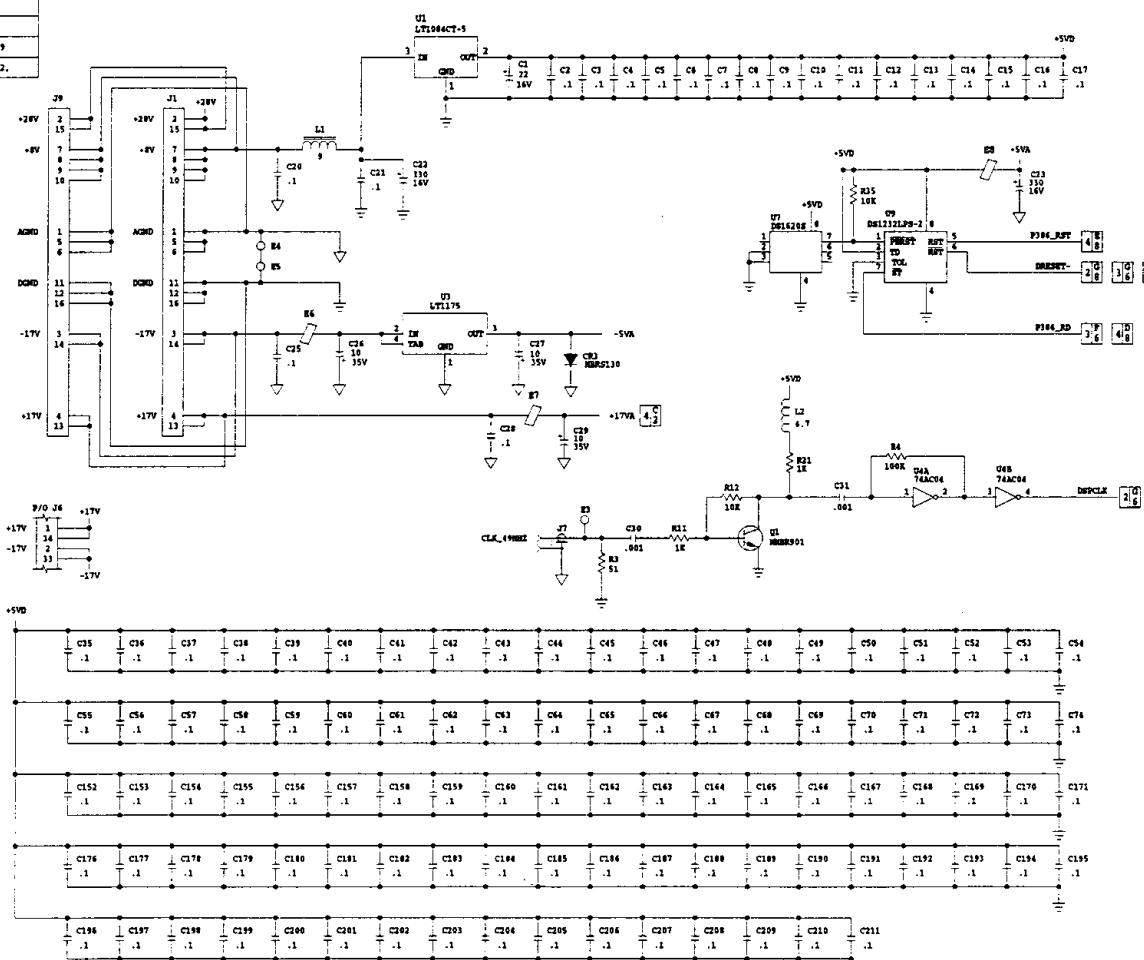
TOOL NO. 3003-2203 REV E SH 10



7. CROSS REFERENCE OF SIGNALS BETWEEN SHEETS ARE INDICATED AS FOLLOWS:

SHEET NO. _____ ZONE _____

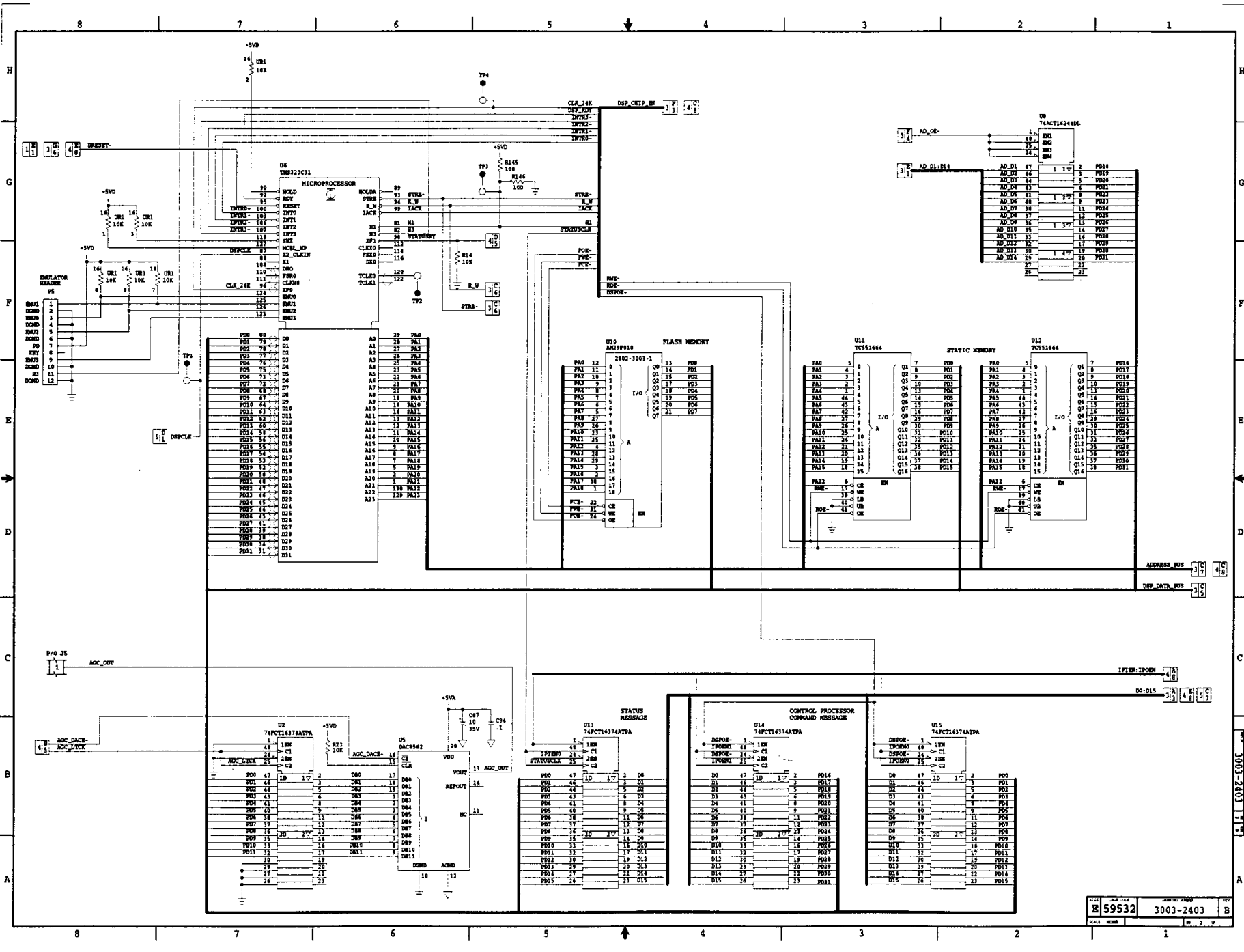
REFERENCE DESIGNATION LAST USED		REFERENCE DESIGNATION NOT USED
C213	P4	C24, C14, C75-C86.
C811	Q3	C125-C151.
E65	R151	E1, E2, E9-E12.
J6	S2	K21-K23, K75, P2-P4
	TP42	R19-R52, R73
		R76, R81-R132.
L2	U63	R162-R166.
L61	UM1	T220, T229.
		U36, U35.
		U55, U66-U69
		U51-U56, U62.

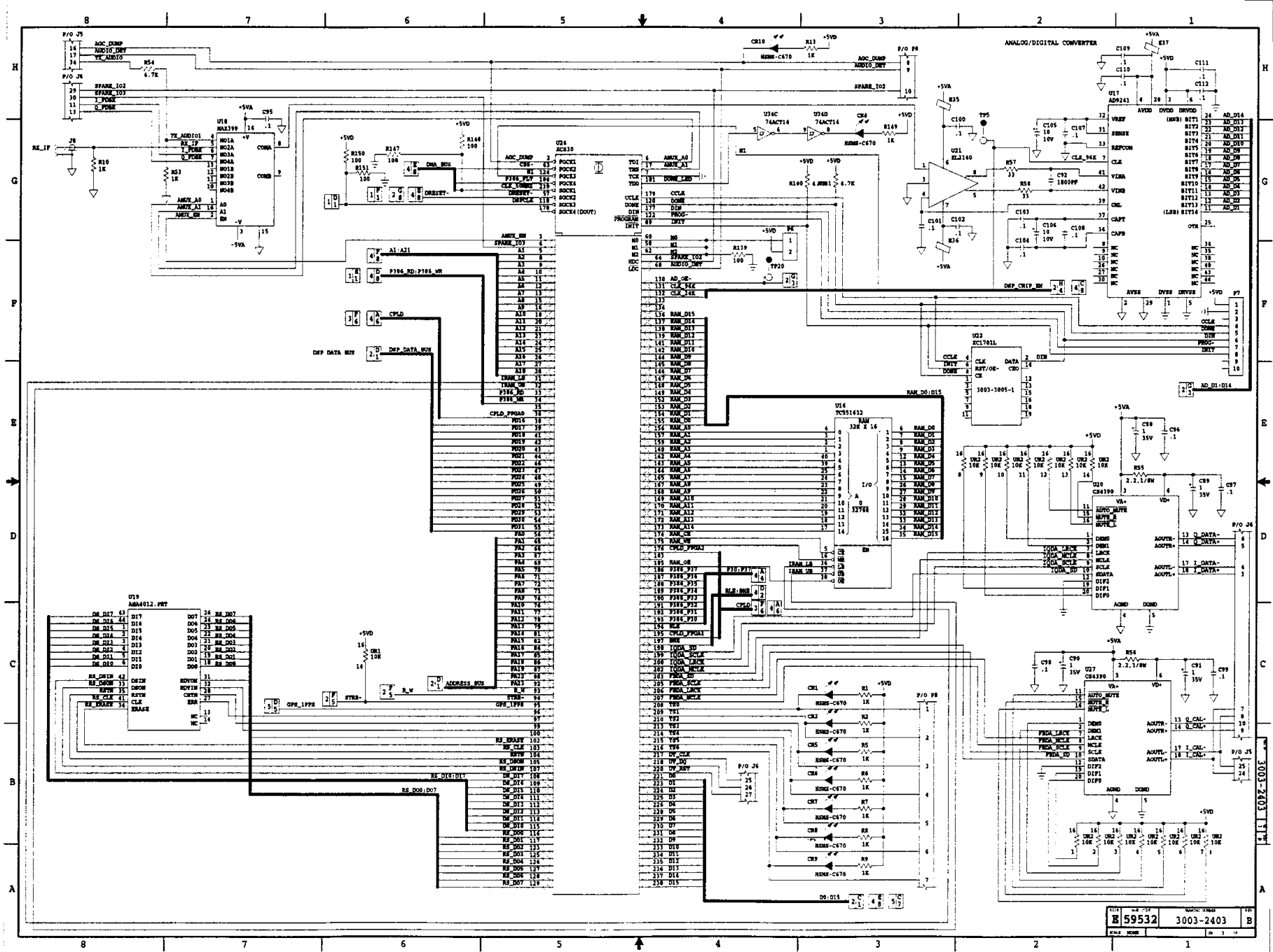


REF ID: A67080					
LINE	LN	REMARKS	DATE	QTY	AMOUNT
	A	DOR 726911, 727705, 727716, DOR 727752, 727806; DISINCORPORATED CHANGES PER MARKED PRINT. R. LIST 98-09-17	98-09-14 98-09-14 98-10-06 98-10-06 98-10-17	726911-01 727705-01 727716-01 727752-01 727806-01	726911-01 727705-01 727716-01 727752-01 727806-01
	A	DOR 728079, 728176; DISINCORPORATED CHANGES PER MARKED PRINT. R. LIST 98-03-08	98-10-17	728079-01 728176-01	728079-01 728176-01

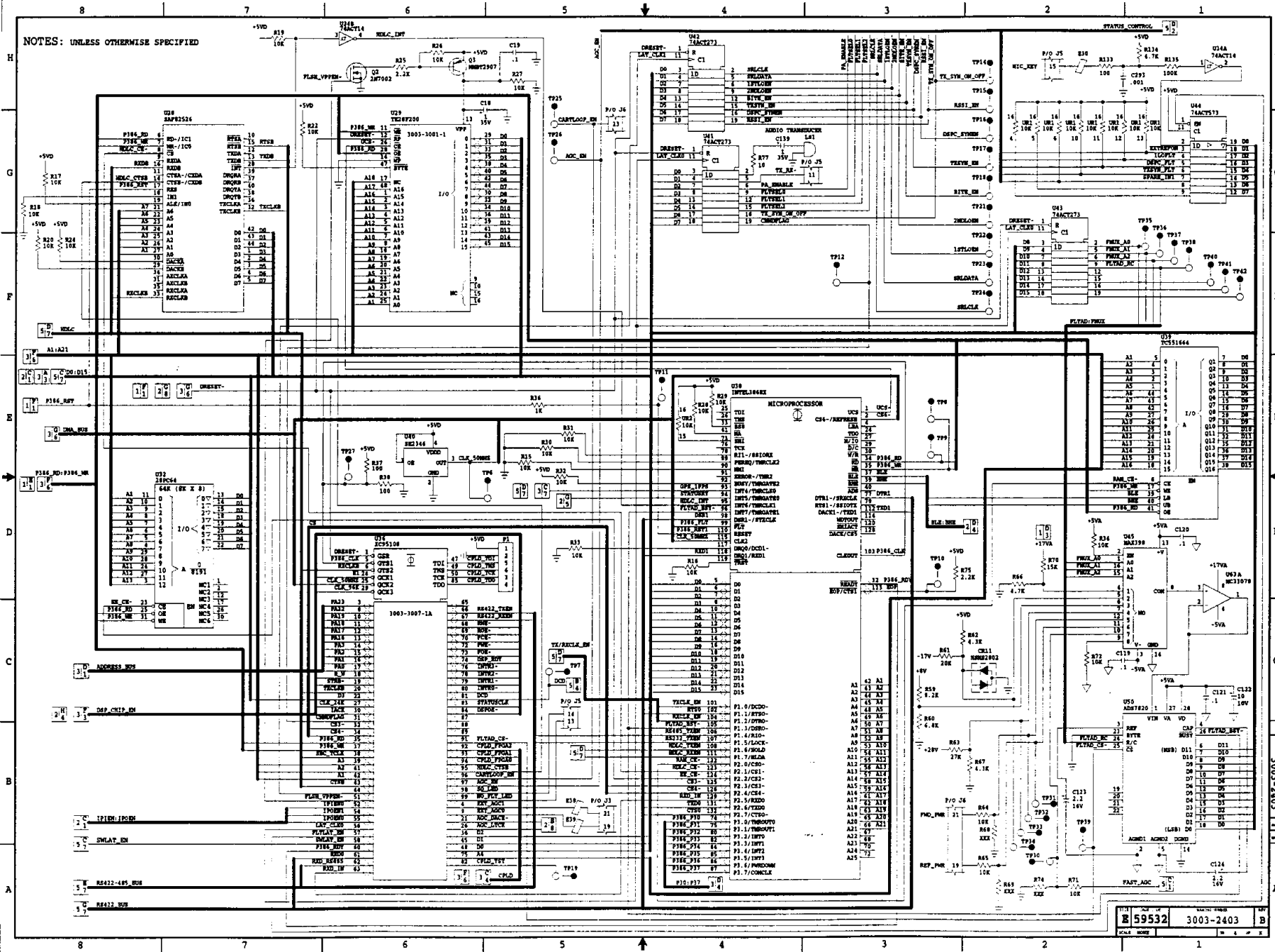
POWER AND GROUND CHART				
DEVICE	+5VD	DGND	NC	RSP DES
10774PCT162374ATPA	7.18, 31.42,	4.10,15.21, 28.34,39.45		02,013, 024,025,
74AC04	14	7		04
74ACT14	14	7		034
74HC320C11	6.15,24.32,33, 40.49,59.65, 66.78,81.91, 97,104,105, 115,121,131, 132	3,4,17,18,39, 35,36,37,42, 51,57,61,69, 70,71,80,88, 86,101,102, 109,127,127 129,129		06
74ACT16240DL	7.18, 31.42,	4.10,35.21, 28.34,39.45		09
2802-3003-1	32	16		010
PC551666	11.33	12.34	22,23,28	011,012,019
PC551632	10.10,	11.31,		016
AM4002	7.8,32.15,25, 36,36,38,	8.10,11,16,17, 29,30,37,40,		019
3003-3005-1	17.20	10		022
XC0013EL	19.30,40.61, 80,90,101, 121,140,150, 161,180,201, 212,222,240,	1,14,22,29,37, 45,59,75,83,91, 98,104,117,125, 143,151,159,166, 182,195,196,204, 211,219,227,		026
BAF95256	41	20		028
3001-3001-1	17	27,44		029
28PC64	12	16		032
3003-3006-1	7.28,40.53, 59,90,100,	2,23,33,44,64, 71,77,84,		036
INTEL186	9.15,28,38,47, 40,71,81,88, 109,121,127,	3,17,11,34,44, 64,69,87,87, 100,116,130,		038
74ACT273	20			041,042,043
74ACT573	20			044
NC7258	11	13		
MAX3232	14	15		055
MSM04050	26	8		057,060,061
74ACT16373	7.18, 31.42,	4.10,15.21, 28.34,39.45		058

[illegible]



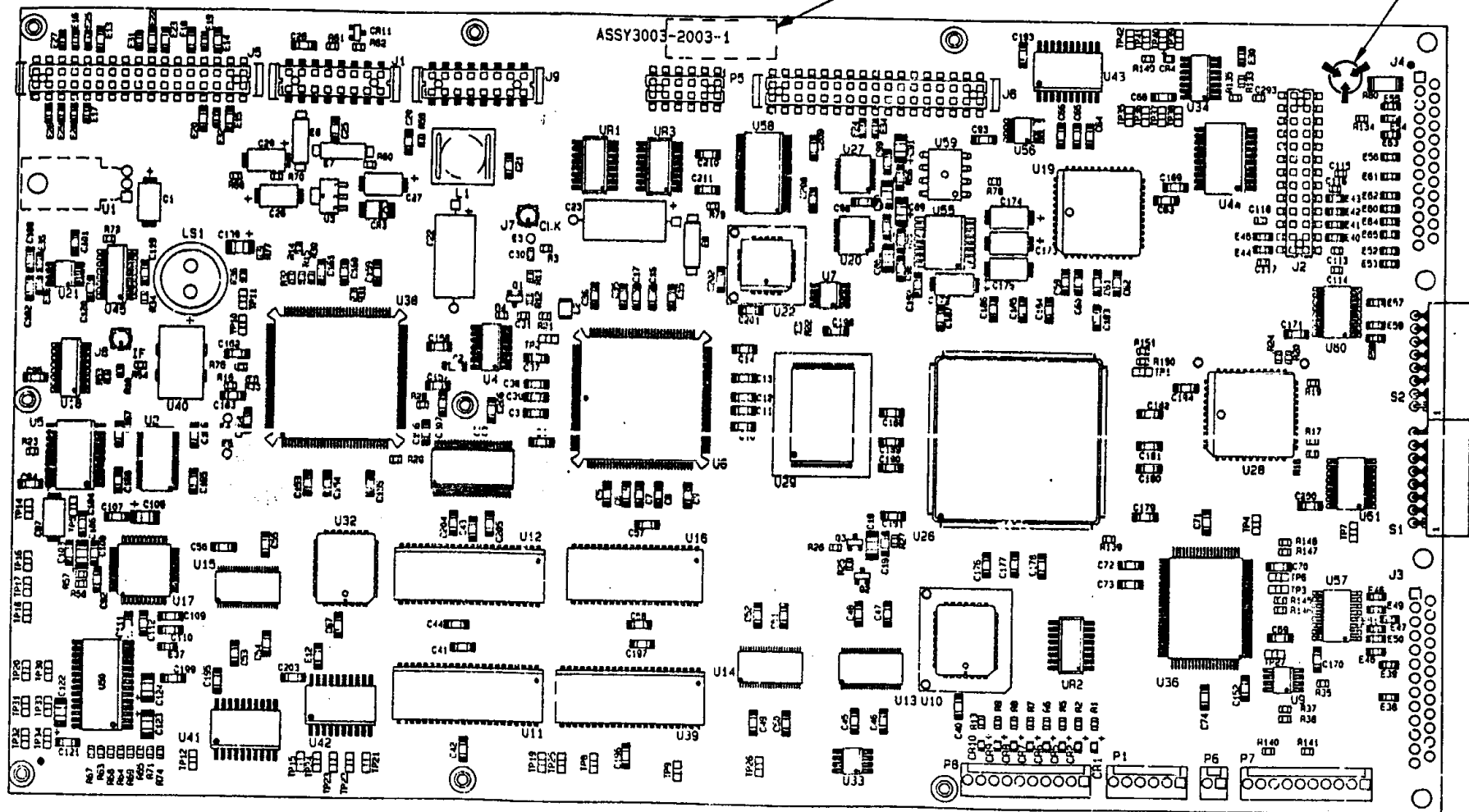


NOTES: UNLESS OTHERWISE SPECIFIED

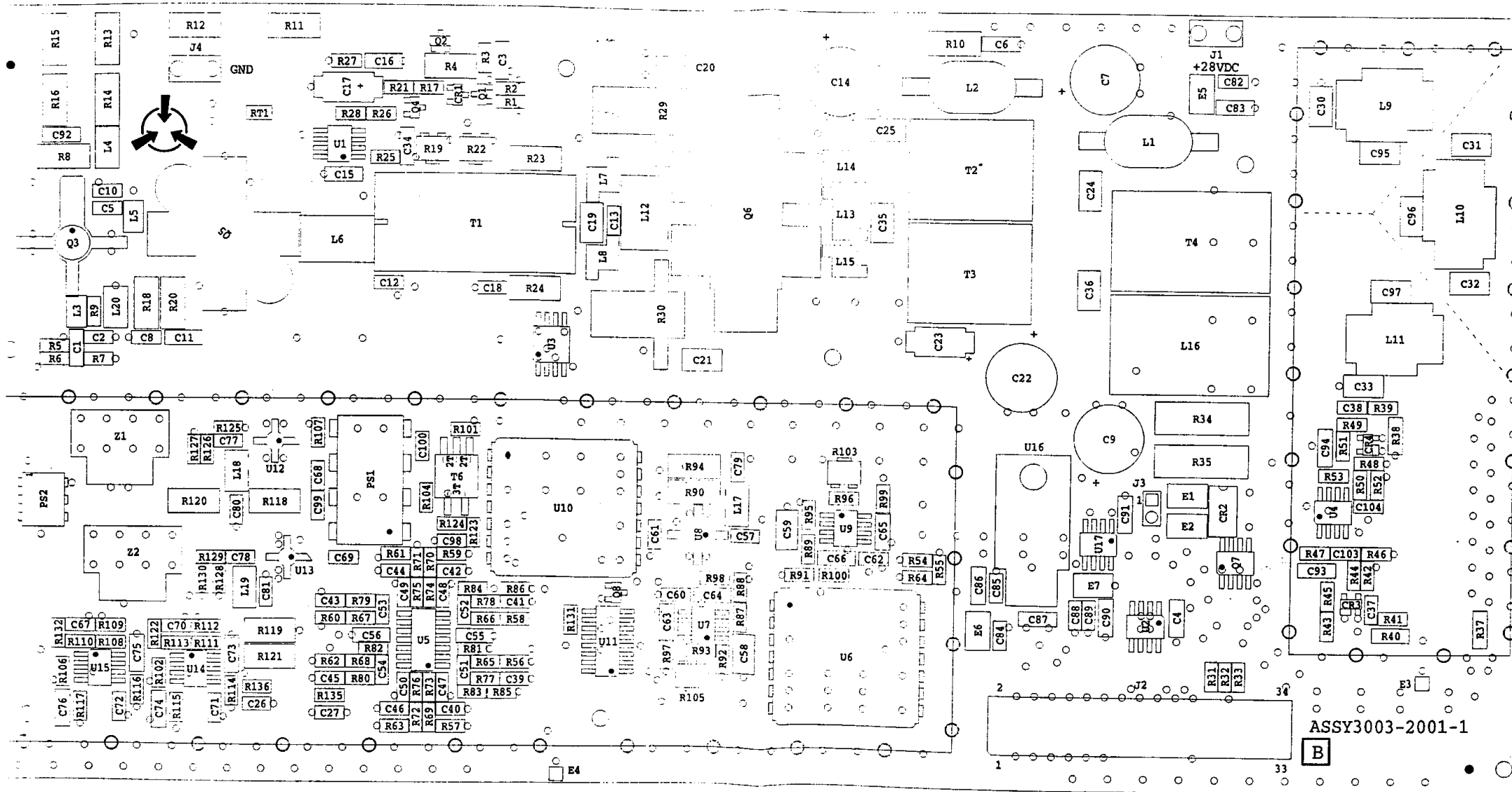


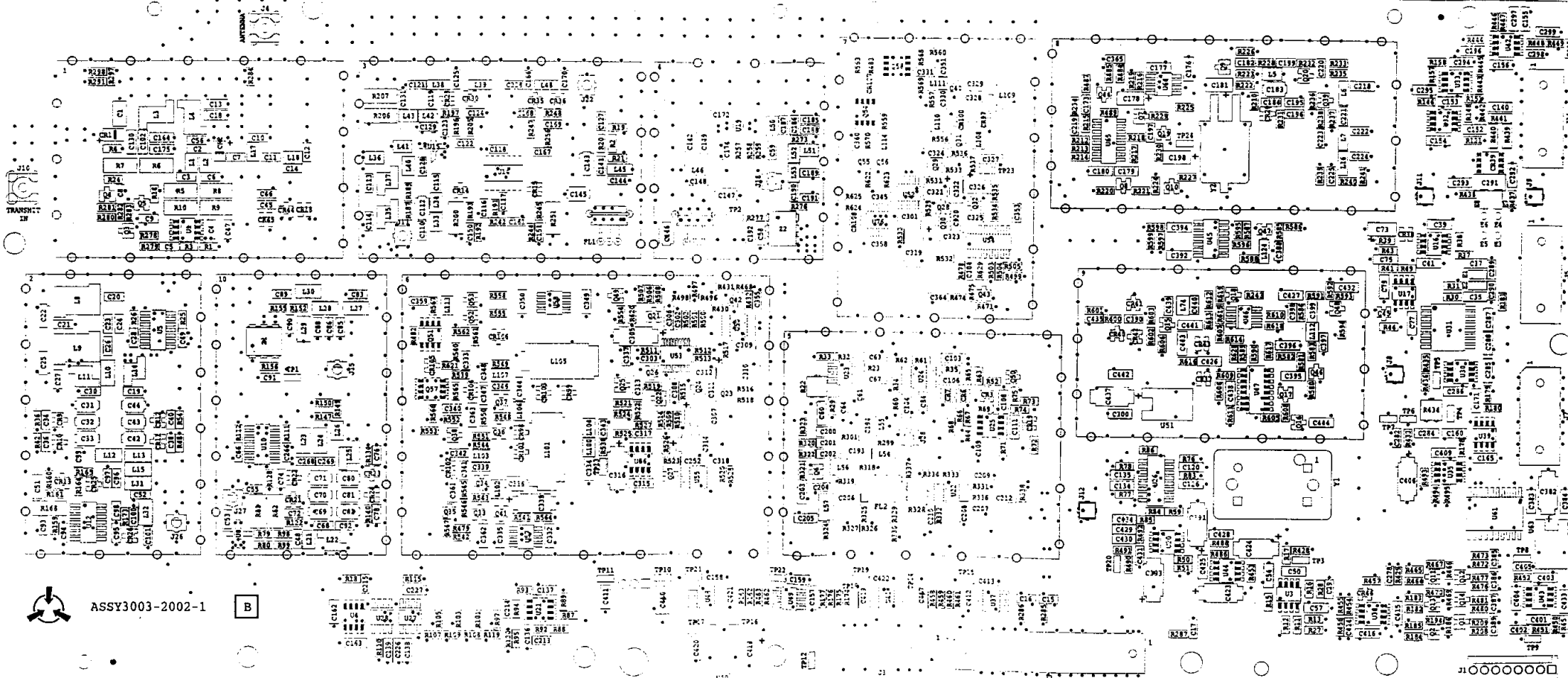
59532 3003-2403 B

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1 -1 ASSEMBLY
COMPONENT SIDE





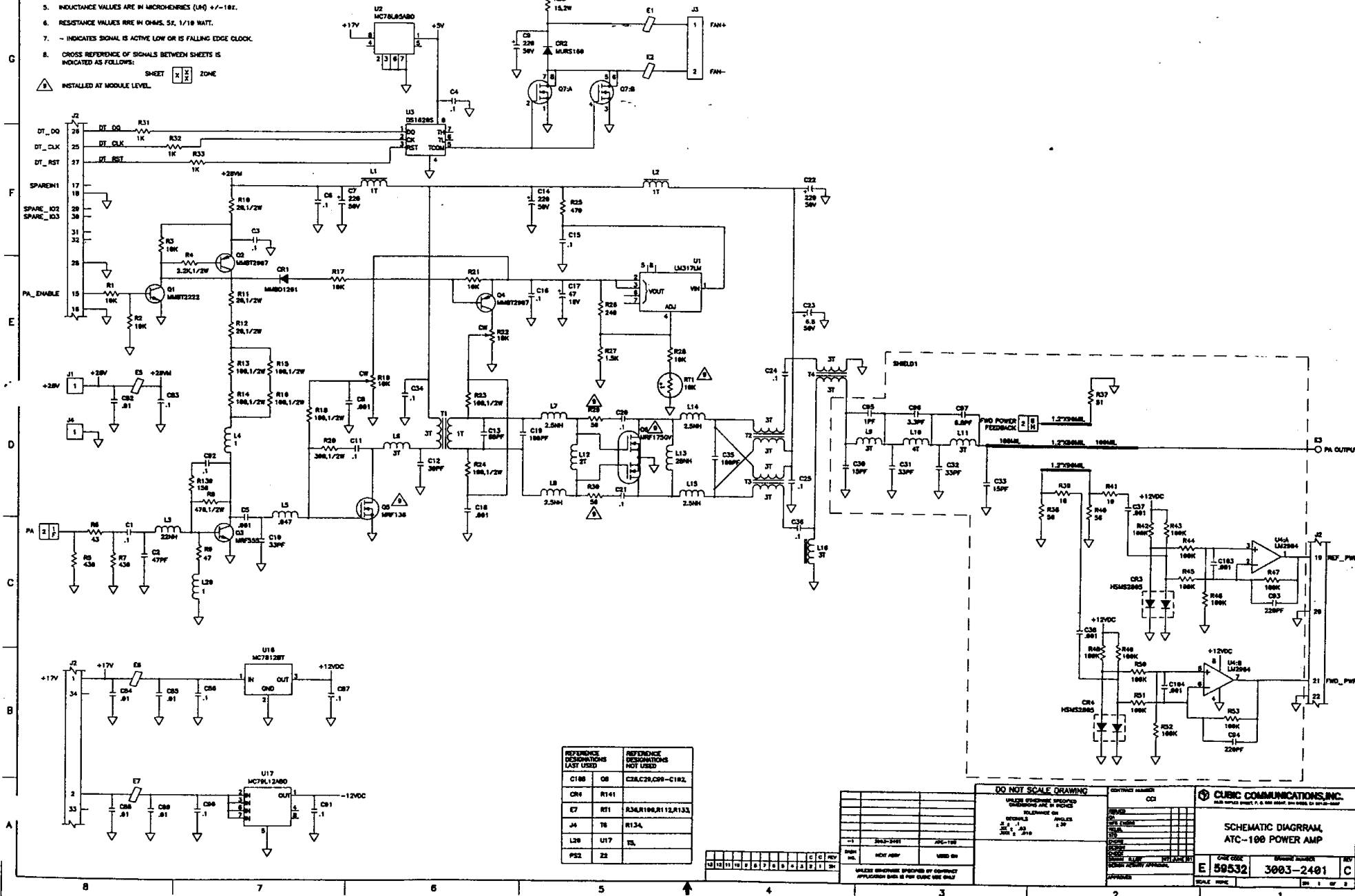
NOTES: UNLESS OTHERWISE SPECIFIED

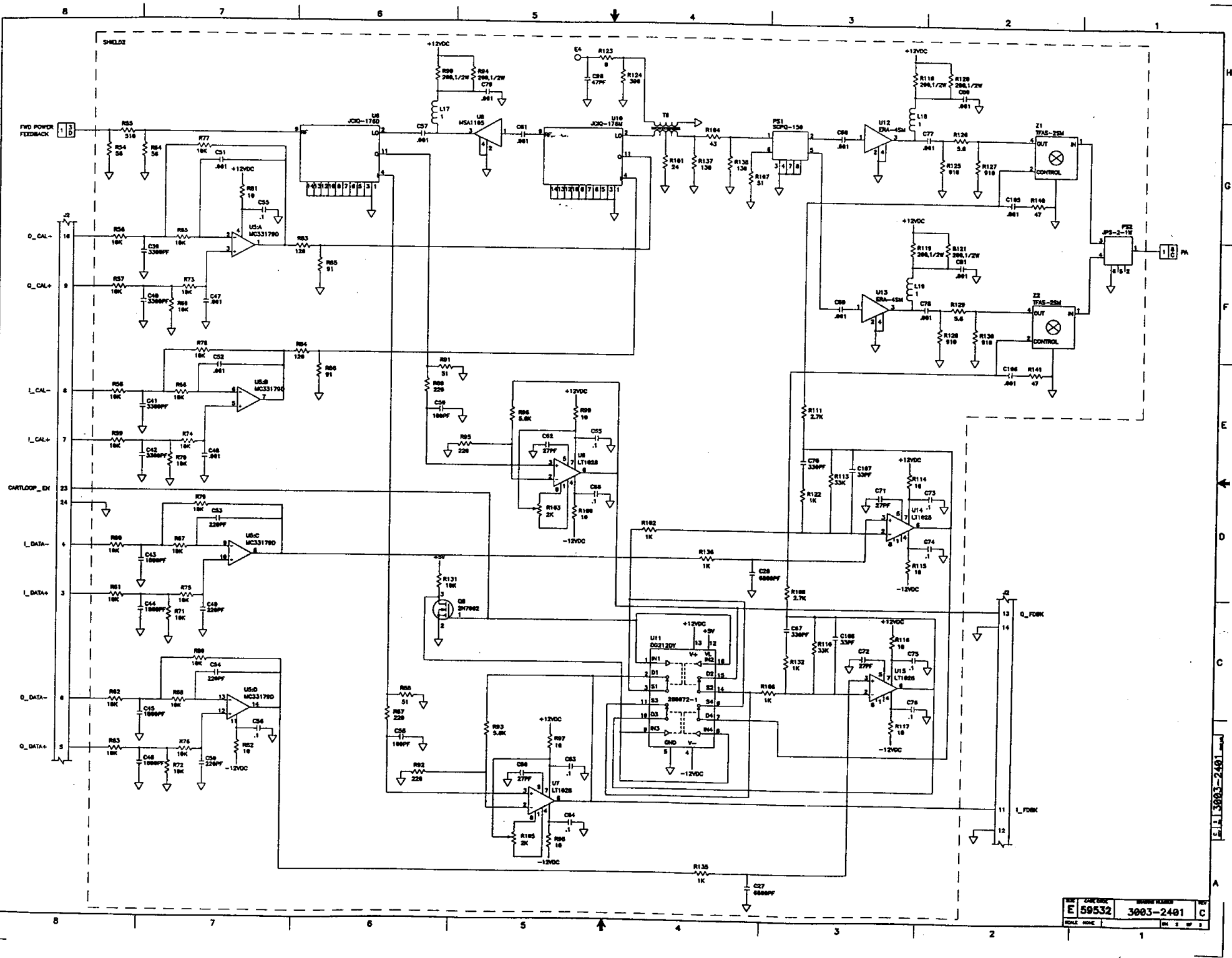
1. INTERPRET DRAWING IN ACCORDANCE WITH DOD-STD-100.
2. CAUTION: CONTAINS PARTS & ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD). REFER TO MIL-STD-1686 AND ESD-HBM-263 FOR PROTECTIVE HANDLING, PACKAGING AND PROCESSING PROCEDURES.
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATIONS PREFIX WITH UNIT NUMBER AND SUBSYSTEM DES.
4. CAPACITANCE VALUES ARE IN MICROFARADS (UF) +/- 10%.
5. INDUCTANCE VALUES ARE IN MICROHENRIES (UH) +/- 10%.
6. RESISTANCE VALUES ARE IN OHMS, 5%, 1/10 WATT.
7. - INDICATES SIGNAL IS ACTIVE LOW OR IS FALLING EDGE CLOCK.
8. CROSS REFERENCE OF SIGNALS BETWEEN SHEETS IS INDICATED AS FOLLOWS:

SHEET X 2 ZONE

INSTALLED AT MODULE LEVEL

REV	DATE	DESCRIPTION	BY	APP
A		DCR 727426:		
B		DCR 727536, 727656:		
C		DCR 727795C, 727938, 727968, 728218A: RETAIL RELEASE. RUST 98-83-13		



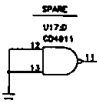


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NOTES: UNLESS OTHERWISE SPECIFIED

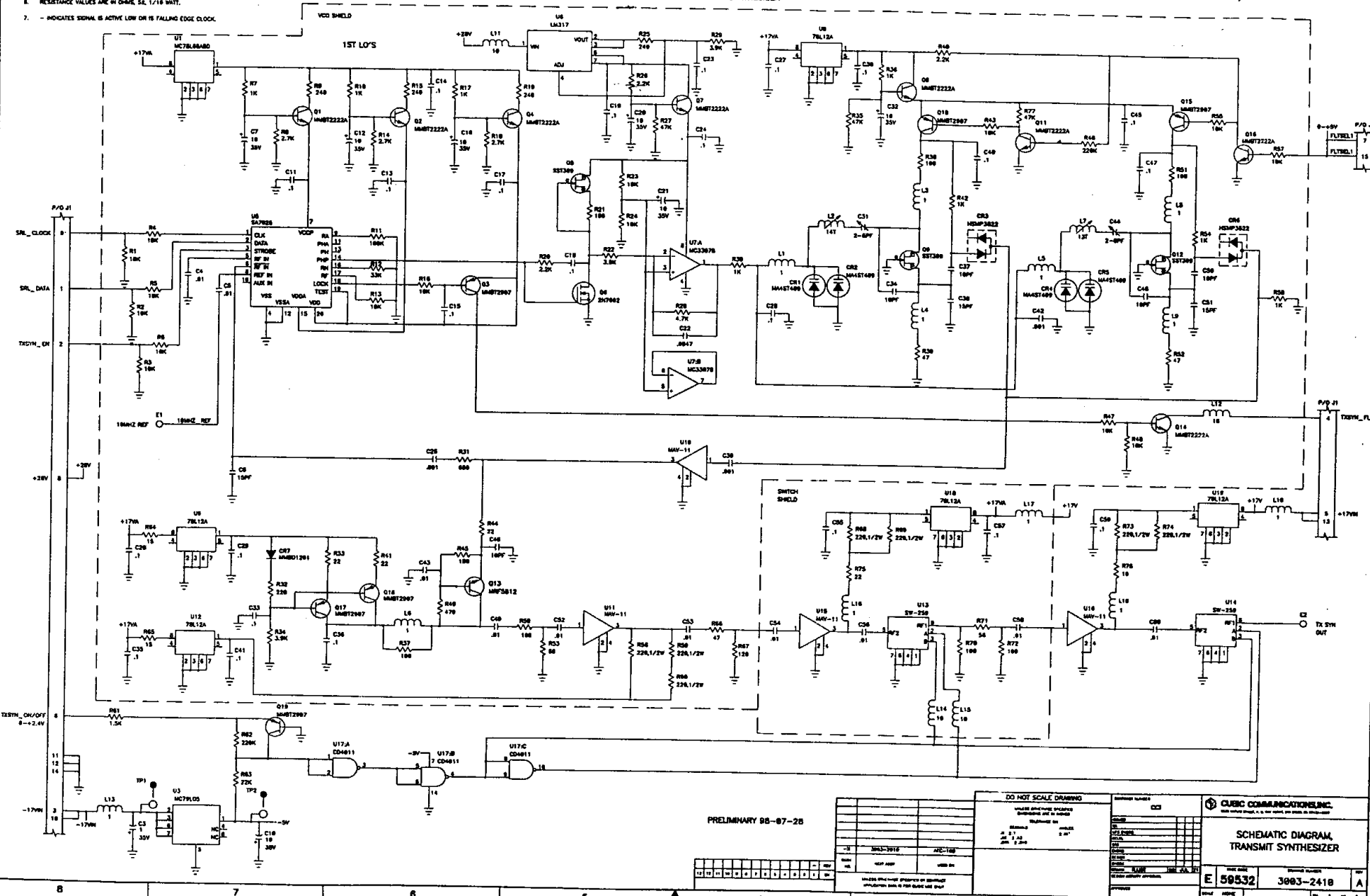
1. INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-144.
2. CAUTION: CONTAINS PARTS & ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD). REFER TO MIL-STD-1684 AND MIL-STD-883C FOR PROTECTIVE HANDLING, PACKAGING AND PROCESSING PROCEDURES.
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR COMPLETE DESIGNATIONS PREFIX WITH UNIT NUMBER AND SUBSYSTEM DES.
4. CAPACITANCE VALUES ARE IN MICROFARADS (UF) +/- 10%.
5. INDUCTANCE VALUES ARE IN MICROHENRIES (UH) +/- 10%.
6. RESISTANCE VALUES ARE IN OHMS, SE, 1/10 WATT.
7. - INDICATES SIGNAL IS ACTIVE LOW OR IS FALLING EDGE CLOCK.

REFERENCE DESIGNATIONS LIST USED	REFERENCE DESIGNATIONS NOT USED
CA6 Q19	C1,C2,C3,C4
CA7 R77	
C2 TP2	
J1 U19	U2,U3
L18	



REVISIONS	
NO.	DESCRIPTION
1	DCR 727842A: INITIAL RELEASE, PLIST 98-02-16

TRANSMIT SYNTHESIZER



PRELIMINARY 98-07-28

DO NOT SCALE DRAWING		CUBIC COMMUNICATIONS, INC.	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		3003-2410	
TOLERANCES UNLESS OTHERWISE SPECIFIED		E 50532	
FRACTIONS DECIMALS		3003-2410	
1/16 0.0625		1/8 0.125	
1/32 0.03125		3/32 0.09375	
1/64 0.015625		1/4 0.25	
3/64 0.046875		1/2 0.5	
1/8 0.125		3/4 0.75	
1/4 0.25		1 1.0	
3/8 0.375		2 2.0	
1/2 0.5		3 3.0	
5/8 0.625		4 4.0	
3/4 0.75		5 5.0	
7/8 0.875		6 6.0	
1 1.0		7 7.0	
1 1/8 1.125		8 8.0	
1 1/4 1.25		9 9.0	
1 3/8 1.375		10 10.0	
1 1/2 1.5		11 11.0	
1 5/8 1.625		12 12.0	
1 3/4 1.75		13 13.0	
1 7/8 1.875		14 14.0	
2 2.0		15 15.0	
2 1/8 2.125		16 16.0	
2 1/4 2.25		17 17.0	
2 3/8 2.375		18 18.0	
2 1/2 2.5		19 19.0	
2 5/8 2.625		20 20.0	
2 3/4 2.75		21 21.0	
2 7/8 2.875		22 22.0	
3 3.0		23 23.0	
3 1/8 3.125		24 24.0	
3 1/4 3.25		25 25.0	
3 3/8 3.375		26 26.0	
3 1/2 3.5		27 27.0	
3 5/8 3.625		28 28.0	
3 3/4 3.75		29 29.0	
3 7/8 3.875		30 30.0	
4 4.0		31 31.0	
4 1/8 4.125		32 32.0	
4 1/4 4.25		33 33.0	
4 3/8 4.375		34 34.0	
4 1/2 4.5		35 35.0	
4 5/8 4.625		36 36.0	
4 3/4 4.75		37 37.0	
4 7/8 4.875		38 38.0	
5 5.0		39 39.0	
5 1/8 5.125		40 40.0	
5 1/4 5.25		41 41.0	
5 3/8 5.375		42 42.0	
5 1/2 5.5		43 43.0	
5 5/8 5.625		44 44.0	
5 3/4 5.75		45 45.0	
5 7/8 5.875		46 46.0	
6 6.0		47 47.0	
6 1/8 6.125		48 48.0	
6 1/4 6.25		49 49.0	
6 3/8 6.375		50 50.0	
6 1/2 6.5		51 51.0	
6 5/8 6.625		52 52.0	
6 3/4 6.75		53 53.0	
6 7/8 6.875		54 54.0	
7 7.0		55 55.0	
7 1/8 7.125		56 56.0	
7 1/4 7.25		57 57.0	
7 3/8 7.375		58 58.0	
7 1/2 7.5		59 59.0	
7 5/8 7.625		60 60.0	
7 3/4 7.75		61 61.0	
7 7/8 7.875		62 62.0	
8 8.0		63 63.0	
8 1/8 8.125		64 64.0	
8 1/4 8.25		65 65.0	
8 3/8 8.375		66 66.0	
8 1/2 8.5		67 67.0	
8 5/8 8.625		68 68.0	
8 3/4 8.75		69 69.0	
8 7/8 8.875		70 70.0	
9 9.0		71 71.0	
9 1/8 9.125		72 72.0	
9 1/4 9.25		73 73.0	
9 3/8 9.375		74 74.0	
9 1/2 9.5		75 75.0	
9 5/8 9.625		76 76.0	
9 3/4 9.75		77 77.0	
9 7/8 9.875		78 78.0	
10 10.0		79 79.0	
10 1/8 10.125		80 80.0	
10 1/4 10.25		81 81.0	
10 3/8 10.375		82 82.0	
10 1/2 10.5		83 83.0	
10 5/8 10.625		84 84.0	
10 3/4 10.75		85 85.0	
10 7/8 10.875		86 86.0	
11 11.0		87 87.0	
11 1/8 11.125		88 88.0	
11 1/4 11.25		89 89.0	
11 3/8 11.375		90 90.0	
11 1/2 11.5		91 91.0	
11 5/8 11.625		92 92.0	
11 3/4 11.75		93 93.0	
11 7/8 11.875		94 94.0	
12 12.0		95 95.0	
12 1/8 12.125		96 96.0	
12 1/4 12.25		97 97.0	
12 3/8 12.375		98 98.0	
12 1/2 12.5		99 99.0	
12 5/8 12.625		100 100.0	

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