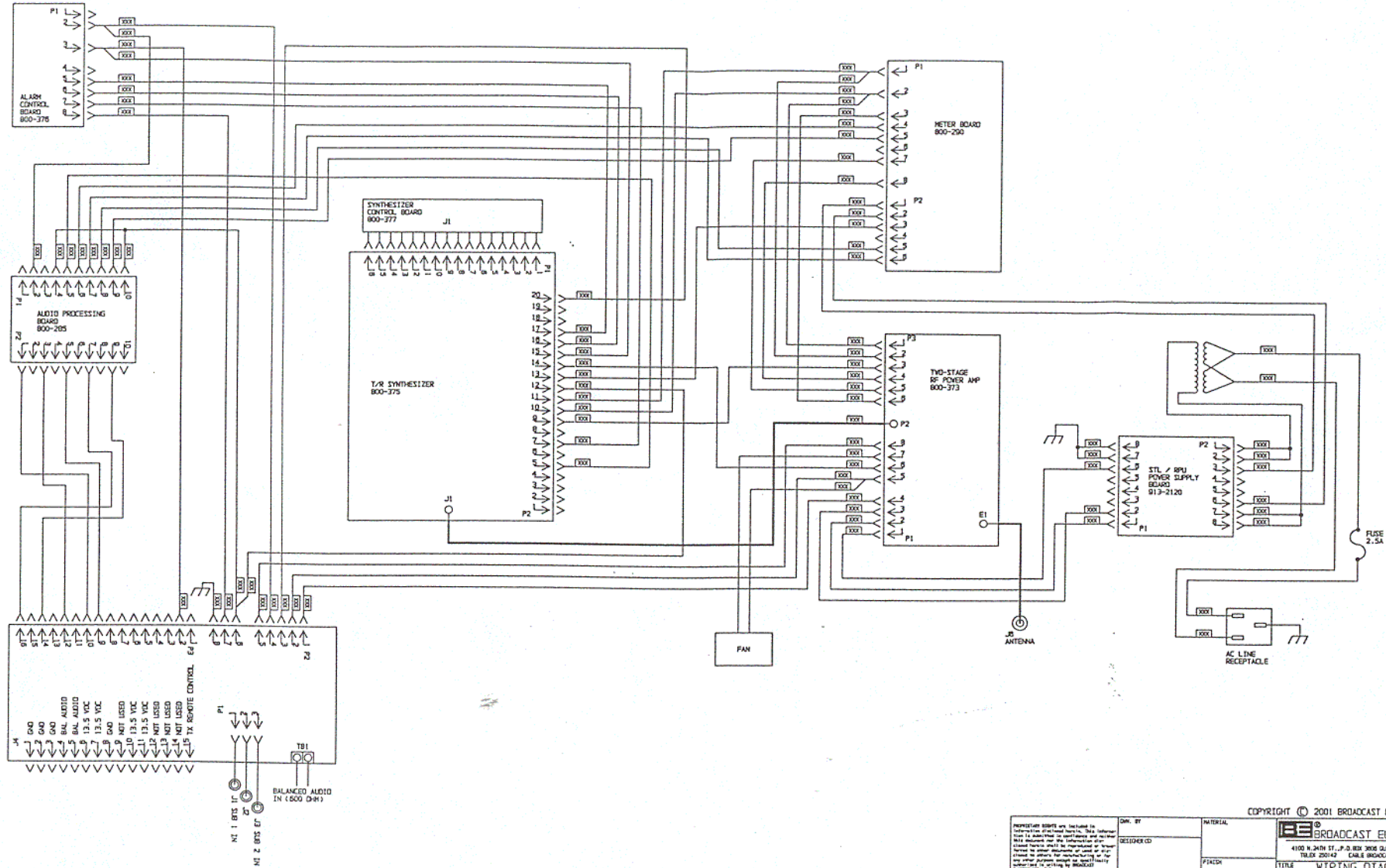
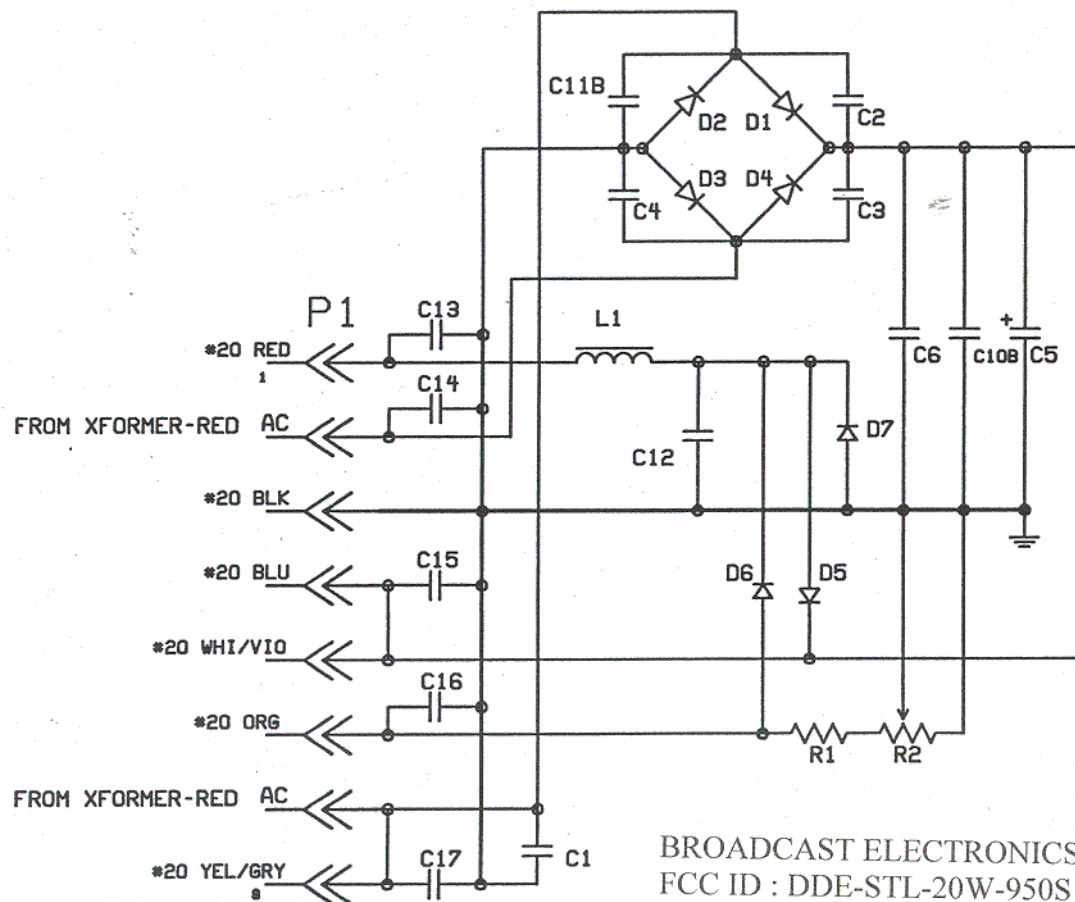




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TOLERANCE (DIMENSION) IS 0.1. .X 1 .010 .X 2 .015		DIM. NO. 903-6020		TITLE STL-20C	

BROADCAST ELECTRONICS
 FCC ID : DDE-STL-20W-950S
 JOB # : 250U1
 EXHIBIT # : 4A



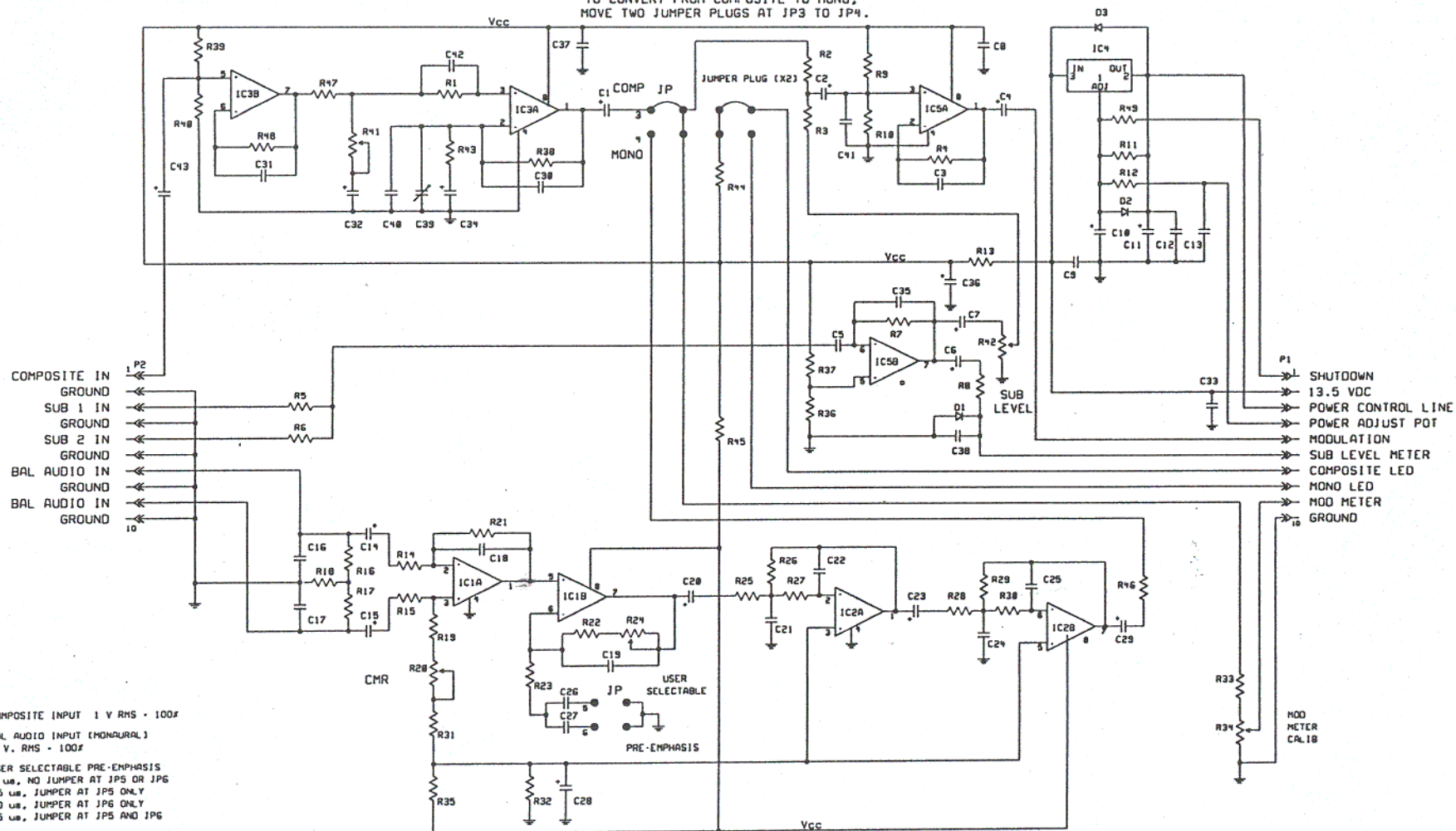
BROADCAST ELECTRONICS
 FCC ID : DDE-STL-20W-950S
 JOB # : 250U1
 EXHIBIT # : 43

MARTI ELECTRONICS
 CLEBURNE, TX 76033-0661

DRAWING NO.
 COPYRIGHT 800-168
 08-JUL-96

TITLE
 POWER SUPPLY BOARD

TO CONVERT FROM COMPOSITE TO MONO,
MOVE TWO JUMPER PLUGS AT JP3 TO JP4.

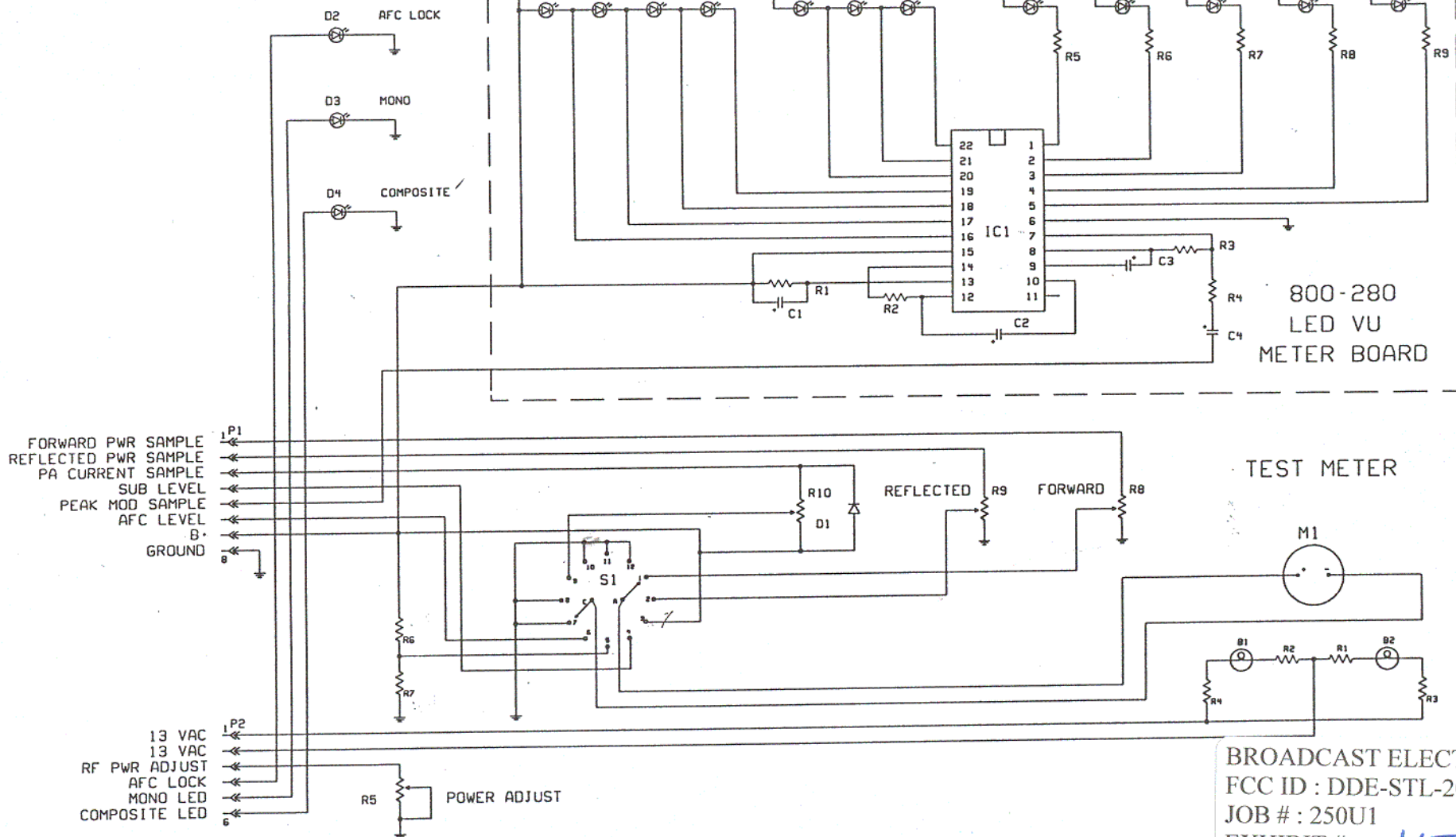


NOTE

1. COMPOSITE INPUT 1 V RMS • 100f
2. BAL AUDIO INPUT (MONO) 1 V. RMS • 100f
3. USER SELECTABLE PRE-EMPHASIS
0 uS, NO JUMPER AT JP5 OR JP6
25 uS, JUMPER AT JP5 ONLY
50 uS, JUMPER AT JP6 ONLY
75 uS, JUMPER AT JP5 AND JP6
4. LAST USED COMPONENTS
LAST CAPACITOR - C43
LAST RESISTOR - R49
LAST DIODE - D3
LAST IC - IC5



FRONT PANEL LED INDICATORS

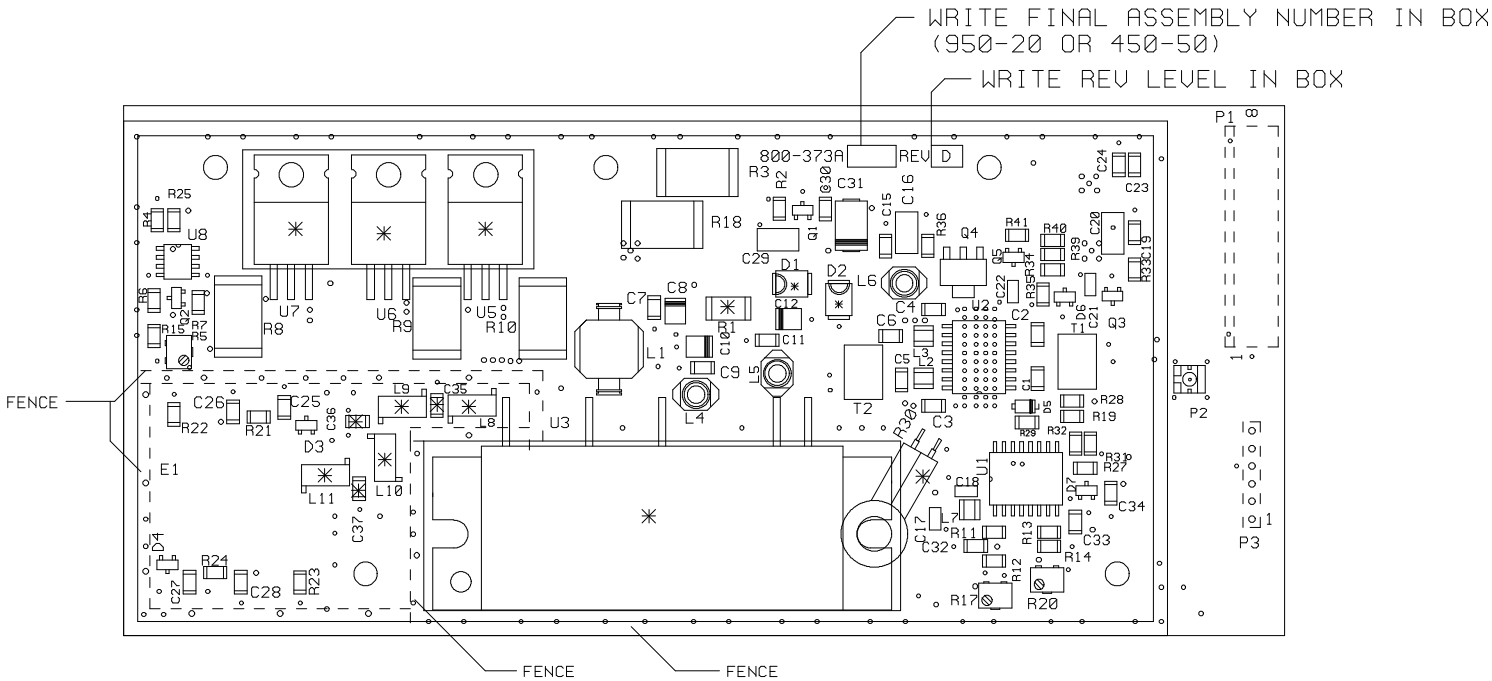


MARTI ELECTRONICS
CLEBURNE, TX 76033-0661

DRAWING NO. 800-290
COPYRIGHT 08-MAR-95
INCLUDES 800-280

TITLE
STL-15C METER BOARD

REVISIONS					
REV	DATE	DESCRIPTION	DRAFTER	APPROVED	ECN
1	1/4/00	PROTOTYPE RELEASE	KWT		----
2	2/15/00	PROTOTYPE CHANGES	KWT		----
3	3/9/00	PROTOTYPE CHANGES	KWT		----
4	5-30-00	DELETED Q6,R19 & R37; MOVED R3.	KWT		----
A	2-13-01	CHGD P1 & P3, ADDED A9C ASSEMBLY: ENG. RELEASE	KWT	EJ	10426
B	8-16-01	CHGD REF DES FOR FL1 PARTS, ADDED NOTES	KWT	EJ	10493
C	9-6-01	ADDED R19; CHGD R28 FROM 10K TO 1.12K	KWT	EJ	10518
D	9-6-01	ADDED D7,R15,R27;DEL R27A&B,R26A&B,C13;CHGD P1	KWT		10523

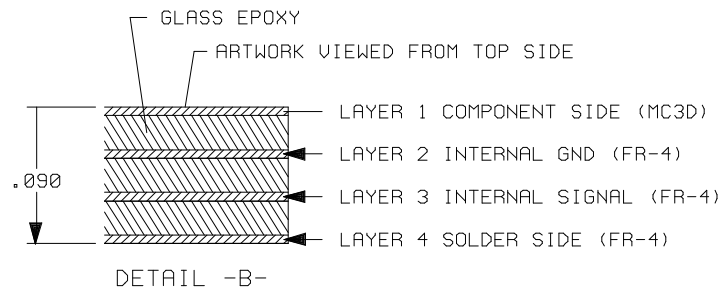


NOTES:

- 1) SEE SCHEMATIC: SB800-373A
- 2) * INDICATES PARTS STUFFED DURING ASSEMBLIES 800-373A450-50 & 800-373A950-20 SEE TABLE BELOW.

	450 MHz 50 W PA	950 MHz 20 W PA
PART	800-373A450-50	800-373A950-20
C35	270-407-1 (4.7pF)	270-202 (2.2pF)
C36	270-407-1 (4.7pF)	270-202 (2.2pF)
C37	270-407-1 (4.7pF)	270-202 (2.2pF)
D1	NOT USED	415-916 (ISMB5916BT3)
D2	NOT USED	415-916 (ISMB5916BT3)
L8	350-192 (12.5nH)	350-198 (5nH)
L9	350-194 (18.5nH)	350-199 (8nH)
L10	350-194 (18.5nH)	350-199 (8nH)
L11	350-192 (12.5nH)	350-198 (5nH)
R1	185-000 (0 OHM)	184-510 (51 OHM)
R30	120-002 (1K)	120-002 (1K)
U3	468-703	467-760
U5	401-338	401-338
U6	401-338	401-338
U7	401-338	401-338

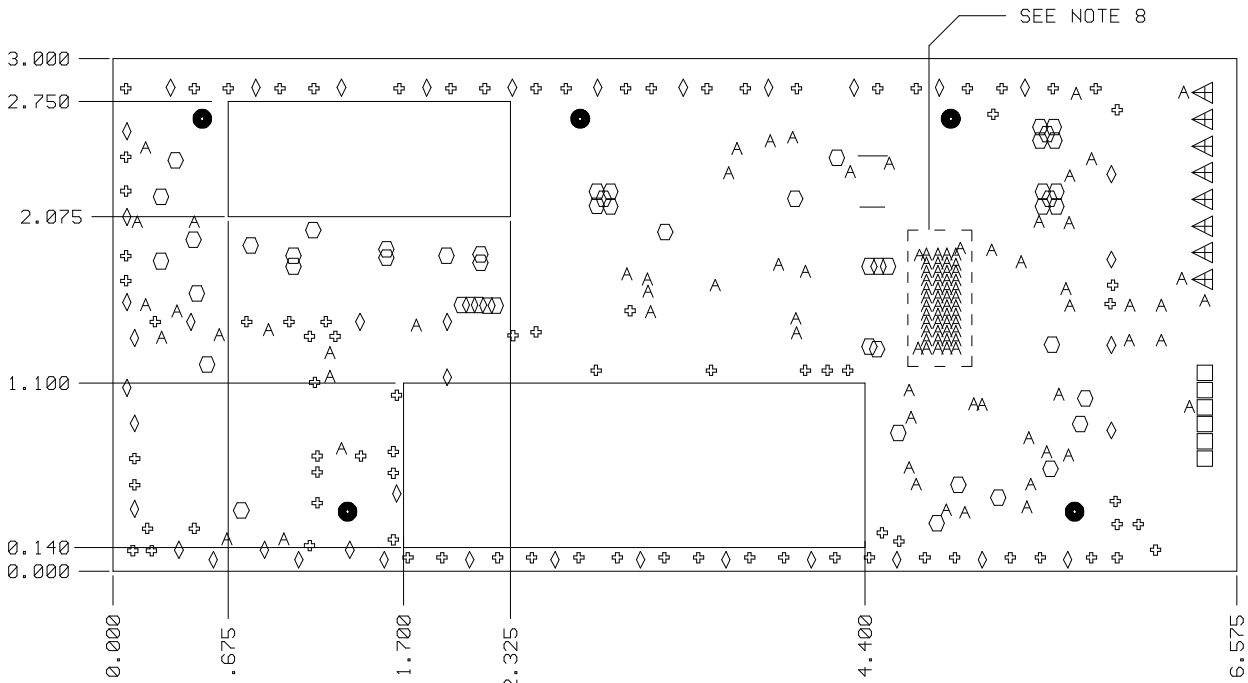
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	DESIGNER(S)				
	PROJ. LEADER ERIC JACKSON	FINISH	TITLE TWO-STAGE RF POWER AMP		
	MFG.		TYPE A	SIZE B	DWG No. 800-373A/450-50/950-20
TOLERANCE (DECIMAL) U.O.S. .X ± .030 .XXX ± .005 .XX ± .015 ANGLES + 1°		NEXT ASSY. 700-450-50 700-950-20		REV D	
			MODEL NNNN		SHEET 1 OF 1



REVISIONS					
REV	DATE	DESCRIPTION	DRAFTER	APPROVED	ECN
1	1-4-00	PROTOTYPE RELEASE	KWT		----
2	2-11-00	PROTOTYPE CHANGES	KWT		----
3	3-9-00	PROTOTYPE CHANGES	KWT		----
4	5-30-00	PROTOTYPE CHANGES	KWT		----
A	2-13-01	CHGD 0.015 VIAS TO 0.033; ADDED .375" TO BOARD	KWT	EJ	10426
B	8-16-01	MADE SOME PADS BIGGER, CHGD SILKSCREEN & MASK	KWT	EJ	10493
C	9-6-01	DEL 1 .025 HOLE, CHGD TOP SIDE, ADD NOTE 9	KWT	EJ	10518
D	9-6-01	CHGD ALL LAYERS	KWT		10523

NOTES:

- P IN HOLECHART TABLE INDICATES PLATED THRU HOLES; -N OR * INDICATES NON-PLATED-THRU HOLES; ALL HOLES FINISHED SIZE AS SHOWN.
- MATERIAL: 0.090 IN. FIBERGLASS REINFORCED EPOXY, NEMA GRADE FR-4/MC3D, NATURAL COLOR WITHOUT OPAQUER; 2 OZ. COPPER CLAD BOTH SIDES. THE PRINTED WIRING BOARD MATERIAL MUST HAVE A COMPARATIVE TRACKING INDEX (CTI) OF AT LEAST 175 AND A SUITABLE FLAMMABILITY RATING.
- FINISH: SELECTIVE SOLDER/HOT AIR LEVELED.
- APPLY GREEN SOLDERMASK OVER BARE COPPER, COMPONENT SIDE ONLY.
- TO BE SILKSCREENED WHITE ON COMPONENT-SIDE PER "SILKSCREEN" ARTWORK.
- CIRCUIT BOARD TO BE ELECTRICALLY TESTED BY VENDOR FOR TRACE CONTINUITY AND PROOF AGAINST TRACE SHORTS.
- ALL 0.033 HOLES ARE BLIND VIA'S, THEY ARE OPEN ON LAYERS 1,2 & 3 NOT LAYER 4, ALL OF THEM SHOULD BE SOLDER FILLED.
- ALL .025 MIL VIAS IN DASHED BOXES, SHOULD BE SOLDER FILLED: (51 TOTAL)
- G ON THE INT GROUND PLANE INDICATES HOLE TIED TO GROUND.



SYM	HOLE SIZE	QTY
△	.025-P	111
⊕	.028-P	83
○	.033-P	52
□	.036-P	6
◇	.041-P	41
▲	.067-P	8
●	.136-P	5

SEE NOTE 7

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	DESIGNER(S)	FINISH SEE NOTES 1 & 3-8	TITLE TWO-STAGE RF POWER AMP			
	PROJ. LEADER ERIC JACKSON		TYPE M	SIZE B	DWG No. 800-373B	REV D
	TOLERANCE (DECIMAL) U.O.S. .X ± .030 .XXX ± .005 .XX ± .015 ANGLES + 1°	MFG.	NEXT ASSY.	MODEL NNNN		SCALE 1/1