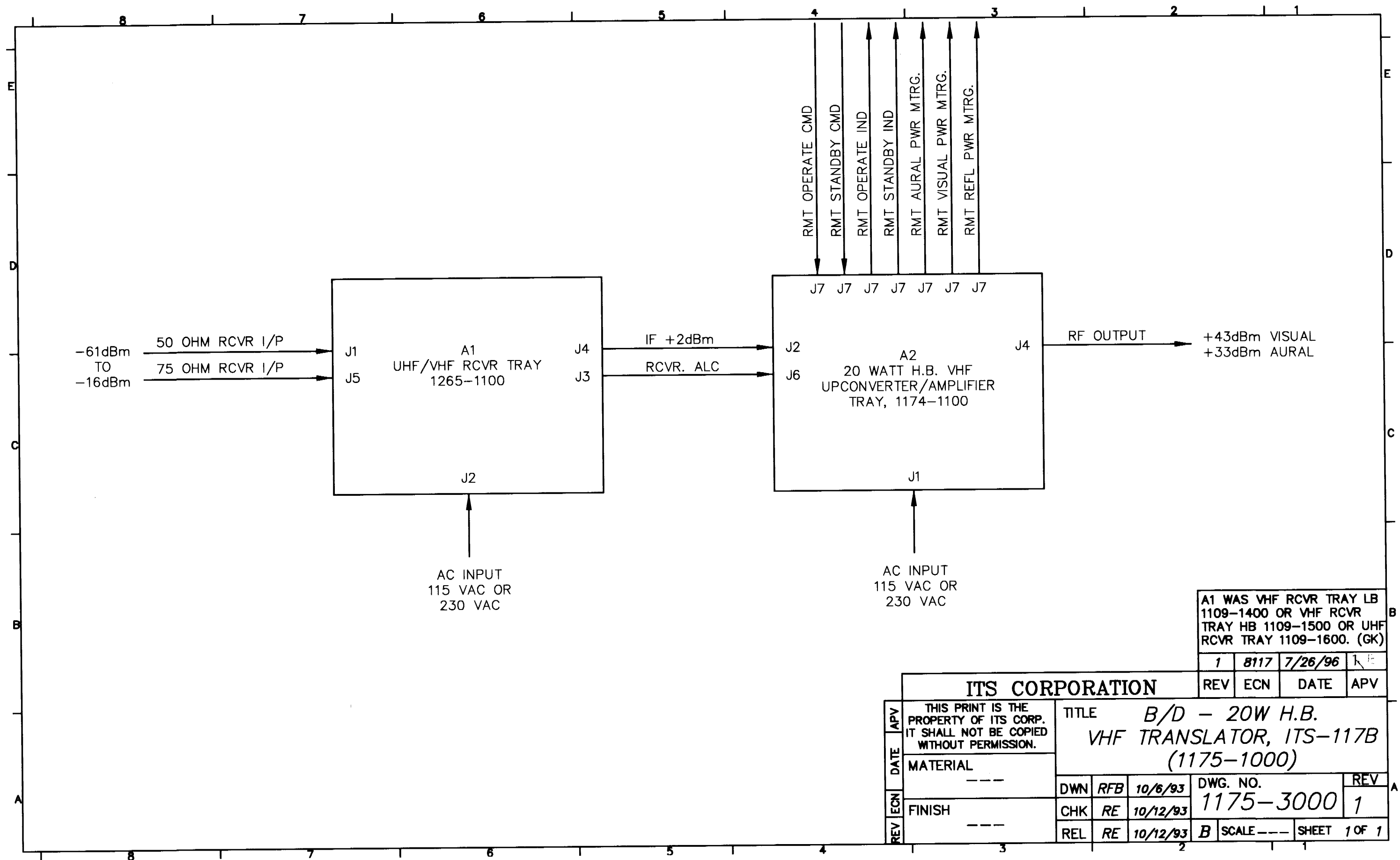
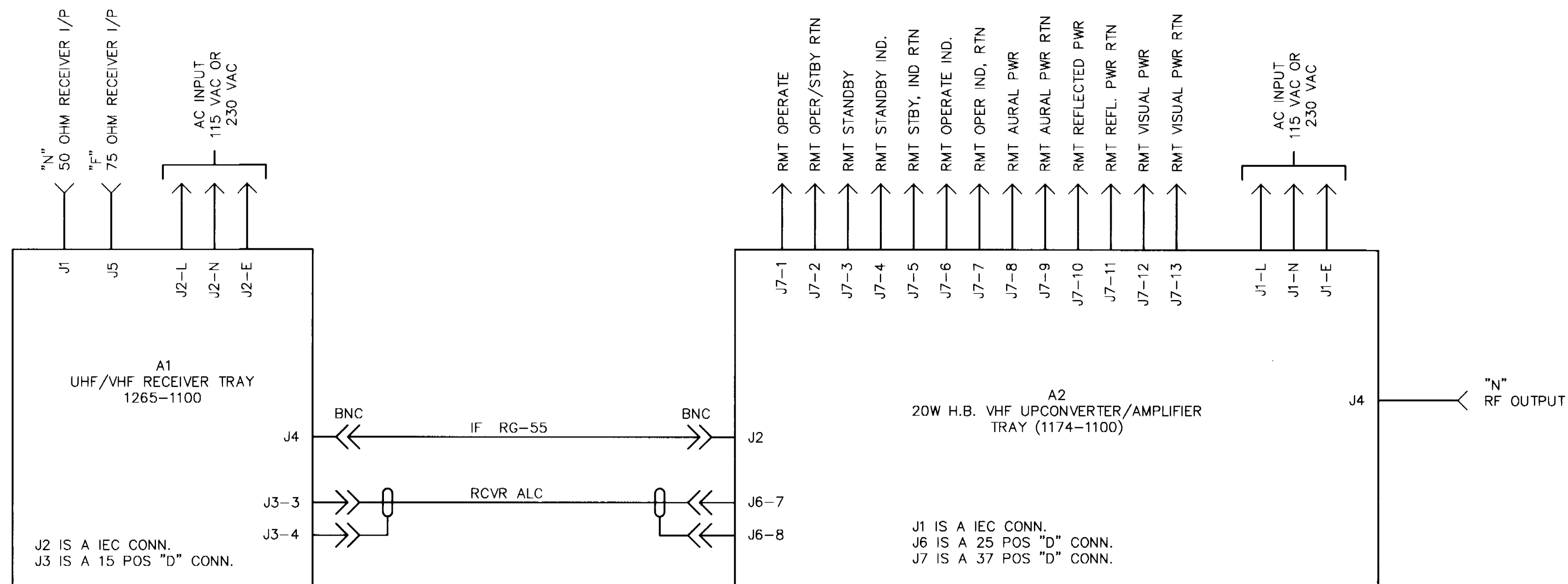




A1 WAS VHF RCVR TRAY LB
1109-1400 OR VHF RCVR
TRAY HB 1109-1500 OR UHF
RCVR TRAY 1109-1600. (GK)

1	8117	7/26/96	1
REV	ECN	DATE	APV

ITS CORPORATION					REV	ECN	DATE	APV			
REV	ECN	DATE	APV	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.	TITLE B/D - 20W H.B. VHF TRANSLATOR, ITS-117B (1175-1000)						
					MATERIAL ---	DWN	RFB	10/6/93	DWG. NO. 1175-3000		REV 1
					FINISH ---	CHK	RE	10/12/93	REL		SCALE --- SHEET 1 OF 1

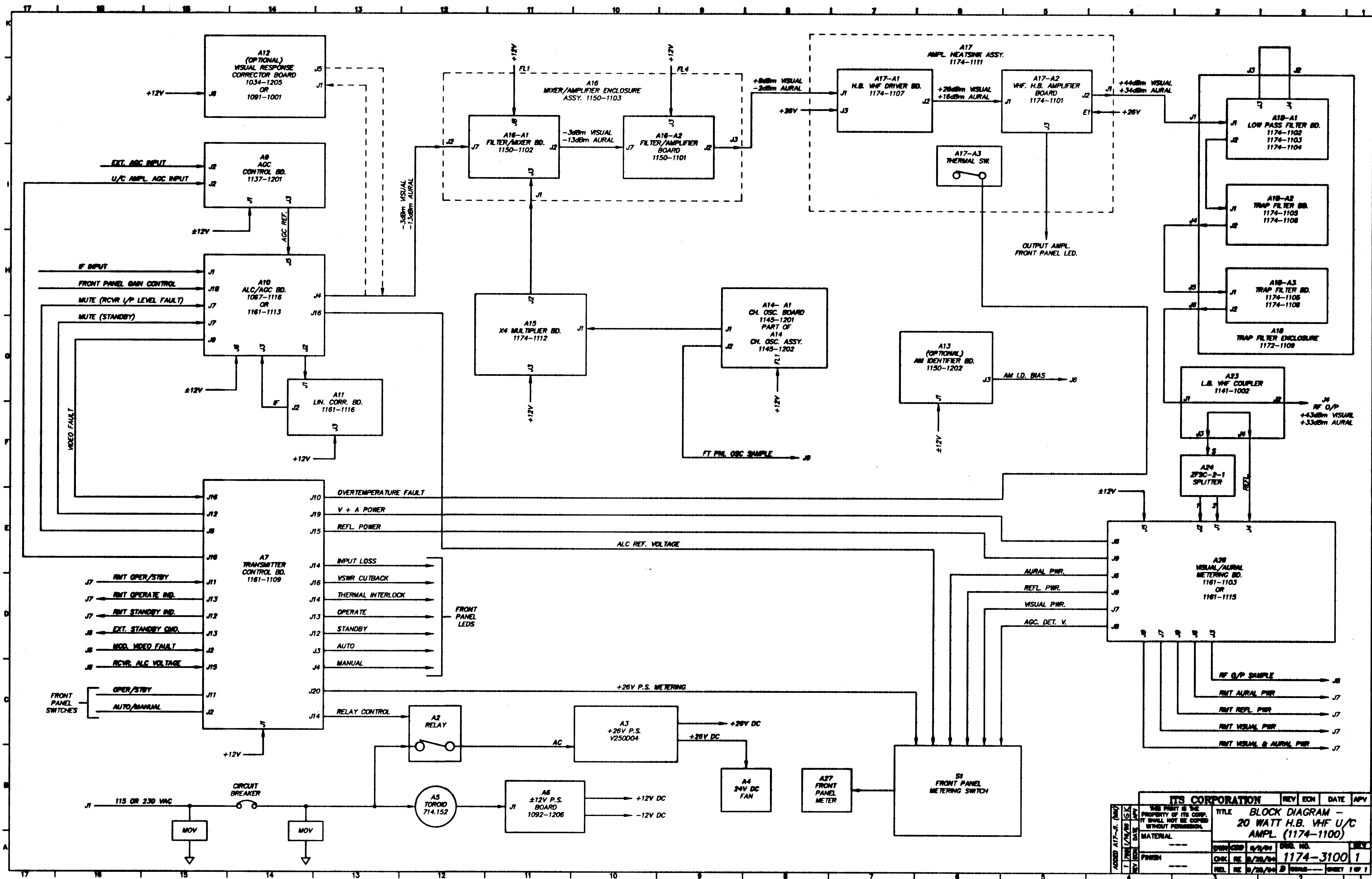


NOTES:

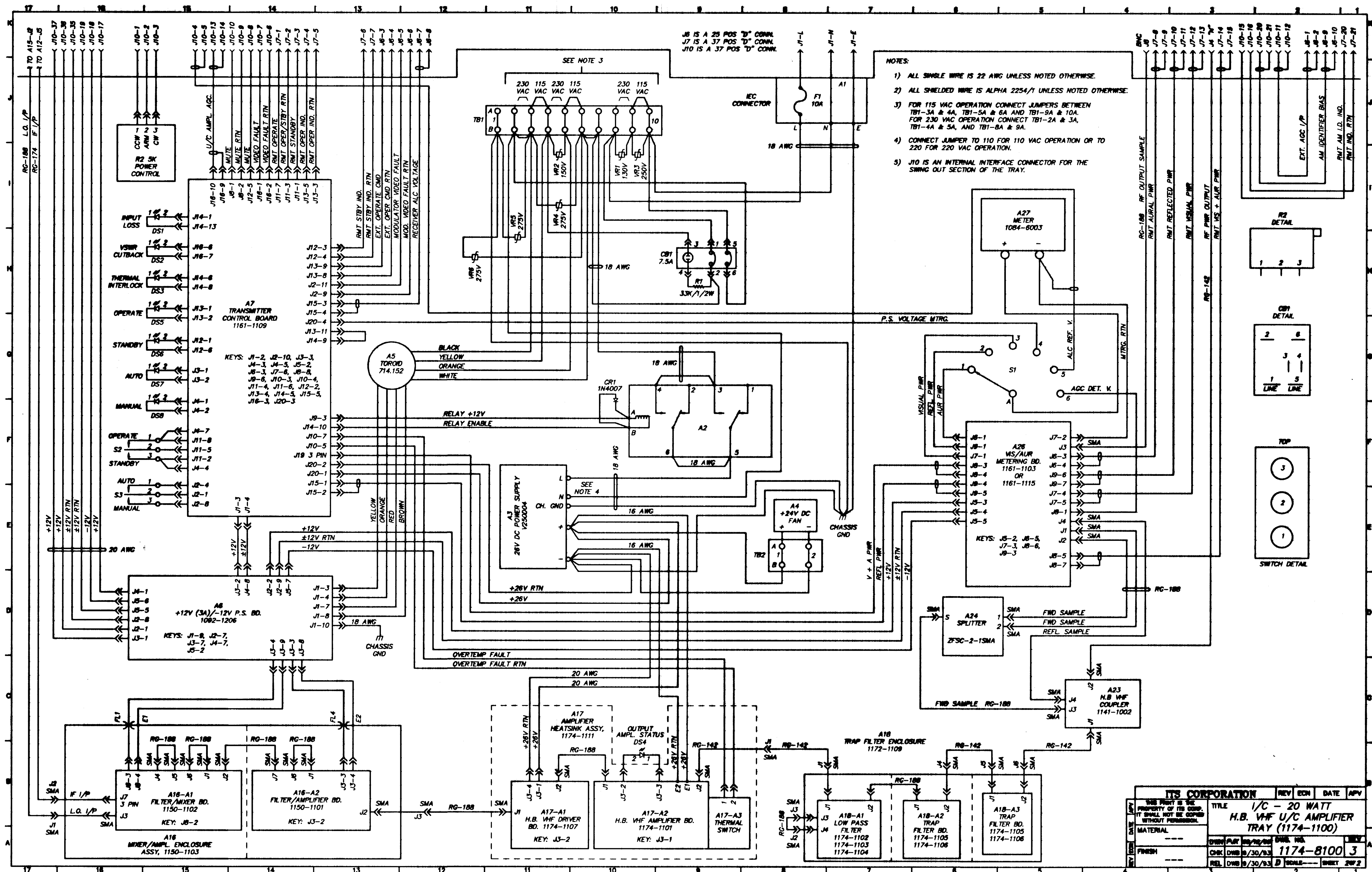
- 1) ALL SINGLE WIRE IS 22 AWG UNLESS NOTED OTHERWISE.
- 2) ALL SHIELDED WIRE IS BELDEN YR40143 UNLESS NOTED OTHERWISE.

A1 WAS RCVR TRAY 1109-1400 OR 1109-1500 OR 1109-1600. NOTE 2 WAS ALL SHIELDED WIRE IS ALPHA 2254/1. (GK)

ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE I/C - 20W H.B. VHF TRANSLATOR, ITS-117B (1175-1000)			
REV	ECN	DATE	APV	DWN	RFB	10/8/93	DWG. NO.
FINISH	---	---	---	CHK	RE	10/12/93	1175-8000 1
REL	RE	10/12/93	C	SCALE	---	SHEET 1 OF 1	



ITS CORPORATION				REV	ECN	DATE	APV
TITLE				BLOCK DIAGRAM -			
				20 WATT H.B. VHF U/C			
				AMPL. (1174-1100)			
MATERIAL				DWN. CSD 9/2/74			
				CHK. RE 8/28/74			
				REL. RE 8/28/74			
				D. 1174-3100 1			
				SHEET 1 OF 1			

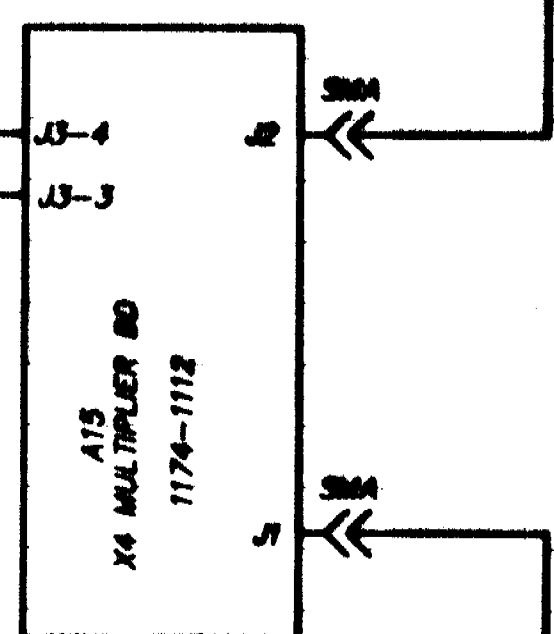
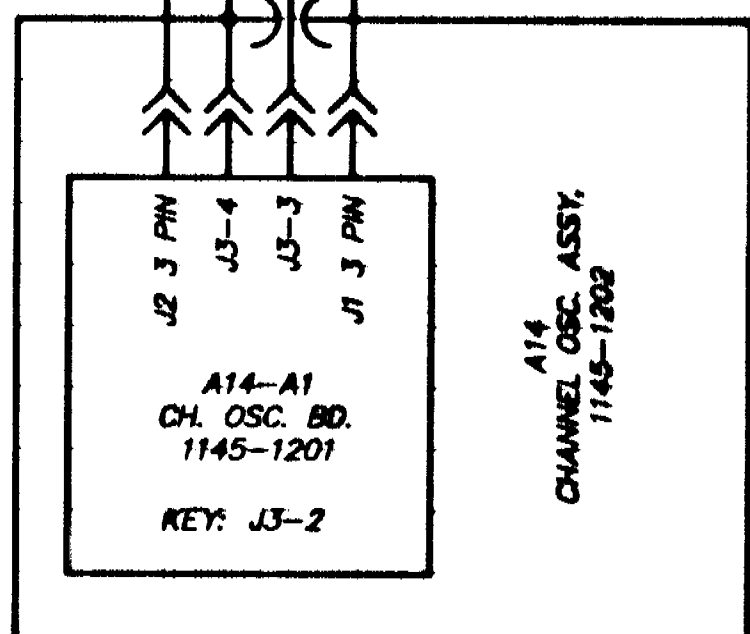
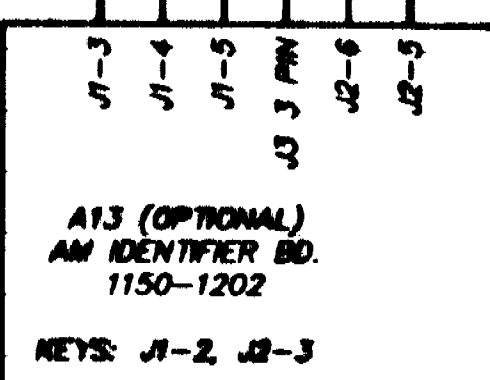
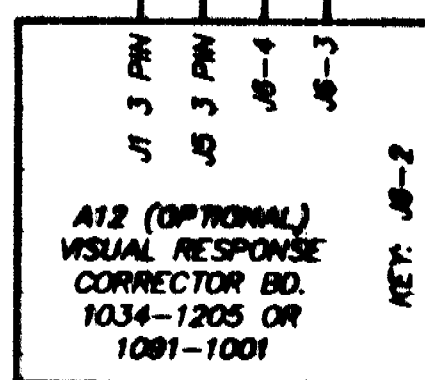
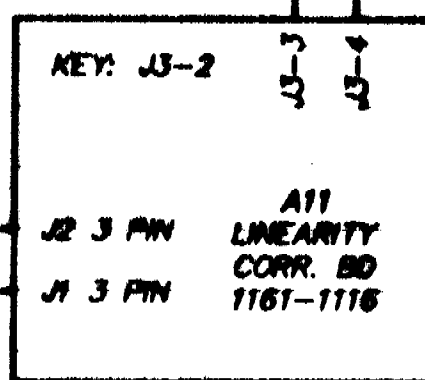
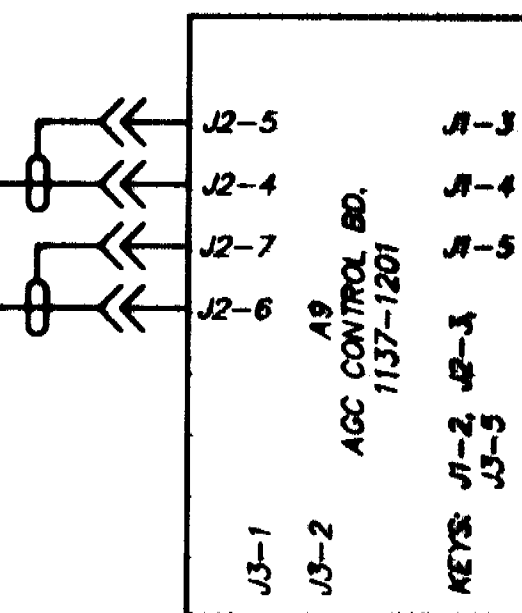
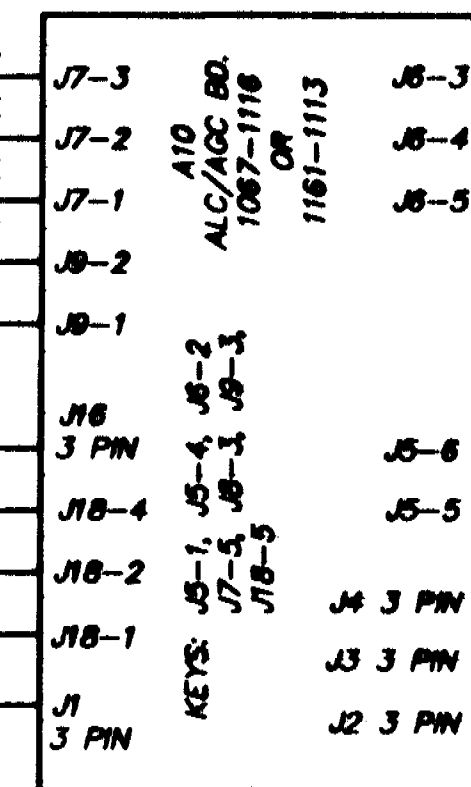


RG-174 F INPUT
J2 BNC
J10-1
J10-2
J10-3
J10-4
J10-5
J10-6
J10-7
J10-8
J10-9
J10-10
J10-11
J10-12
J10-13
J10-14

J10 IS A 37 POS "D" CONN.

NOTES:

- 1) ALL SINGLE WIRE IS 22 AWG UNLESS NOTED OTHERWISE.
- 2) ALL SHIELDED WIRE IS ALPHA 2254/1 UNLESS NOTED OTHERWISE.
- 3) J10 IS THE INTERNAL INTERFACE CONNECTOR FOR THE SWING OUT SECTION OF THE TRAY.

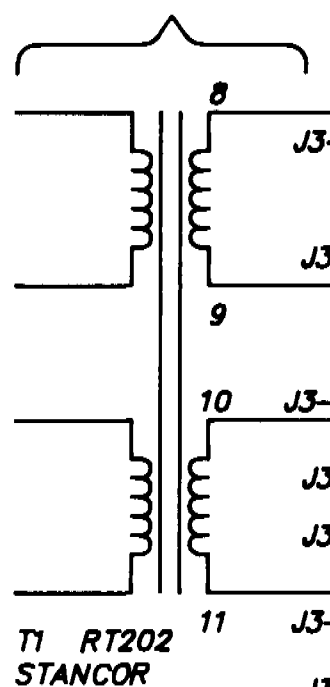


REV	BY	DATE	APV
1	7803	9/13/94	RE
2	7801	7/27/95	OK
3	7801	1/16/98	OK

ITS CORPORATION			
TITLE		1/C - 20 WATT H.B. W/F U/C AMPLIFIER TRAY (1174-1100)	
MATERIAL	---	DATE	---
FINISH	---	DATE	---
REL	DATE	BY	---
REL	DATE	BY	---

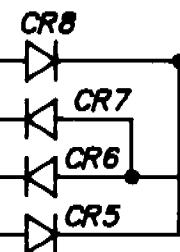
REV	BY	DATE	APV
1	7803	9/13/94	RE
2	7801	7/27/95	OK
3	7801	1/16/98	OK

TYPICAL AC SOURCE
WIRING SHOWN FOR
REFERENCE ONLY



KEYS: J1-2
J2-2
J3-2
J4-7
J5-7

CR5-CR8
6P30K

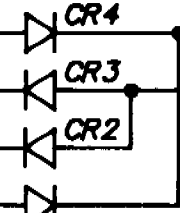


C1
10,000uF
25V

C2
.33

C3
2200uF/
35V

CR1-CR4
1N4007



+12V

C4
.1

U1
7812CT



C5
.33

+12V

C4
.1

U2
7812CT



C5
.33

+12V

C4
.1

U3
7912CT



C5
.33

+12V

C4
.1

U4
7912CT



C5
.33

+12V

C4
.1

U5
7812CT



C5
.33

+12V

C4
.1

U6
7812CT



C5
.33

+12V

C4
.1

U7
7812CT



C5
.33

+12V

C4
.1

U8
7812CT



C5
.33

+12V

C4
.1

U9
7812CT



C5
.33

+12V

C4
.1

U10
7812CT



C5
.33

+12V

C4
.1

U11
7812CT



C5
.33

+12V

C4
.1

U12
7812CT



C5
.33

+12V

C4
.1

U13
7812CT



C5
.33

+12V

C4
.1

U14
7812CT



C5
.33

+12V

C4
.1

U15
7812CT



C5
.33

+12V

C4
.1

U16
7812CT



C5
.33

+12V

C4
.1

U17
7812CT



C5
.33

+12V

C4
.1

U18
7812CT



C5
.33

+12V

C4
.1

U19
7812CT



C5
.33

+12V

C4
.1

U20
7812CT



C5
.33

+12V

C4
.1

U21
7812CT



C5
.33

+12V

C4
.1

U22
7812CT



C5
.33

+12V

C4
.1

U23
7812CT



C5
.33

+12V

C4
.1

U24
7812CT



C5
.33

+12V

C4
.1

U25
7812CT



C5
.33

+12V

C4
.1

U26
7812CT



C5
.33

+12V

C4
.1

U27
7812CT



C5
.33

+12V

C4
.1

U28
7812CT



C5
.33

+12V

C4
.1

U29
7812CT



C5
.33

+12V

C4
.1

U30
7812CT



C5
.33

+12V

C4
.1

U31
7812CT



C5
.33

+12V

C4
.1

U32
7812CT



C5
.33

+12V

C4
.1

U33
7812CT



C5
.33

+12V

C4
.1

U34
7812CT



C5
.33

+12V

C4
.1

U35
7812CT



C5
.33

+12V

C4
.1

U36
7812CT



C5
.33

+12V

C4
.1

U37
7812CT



C5
.33

+12V

C4
.1

U38
7812CT



C5
.33

+12V

C4
.1

U39
7812CT



C5
.33

+12V

C4
.1

U40
7812CT



C5
.33

+12V

C4
.1

U41
7812CT



C5
.33

+12V

C4
.1

U42
7812CT



C5
.33

+12V

C4
.1

U43
7812CT



C5
.33

+12V

C4
.1

U44
7812CT



C5
.33

+12V

C4
.1

U45
7812CT



C5
.33

+12V

C4
.1

U46
7812CT



C5
.33

+12V

C4
.1

U47
7812CT



C5
.33

+12V

C4
.1

U48
7812CT



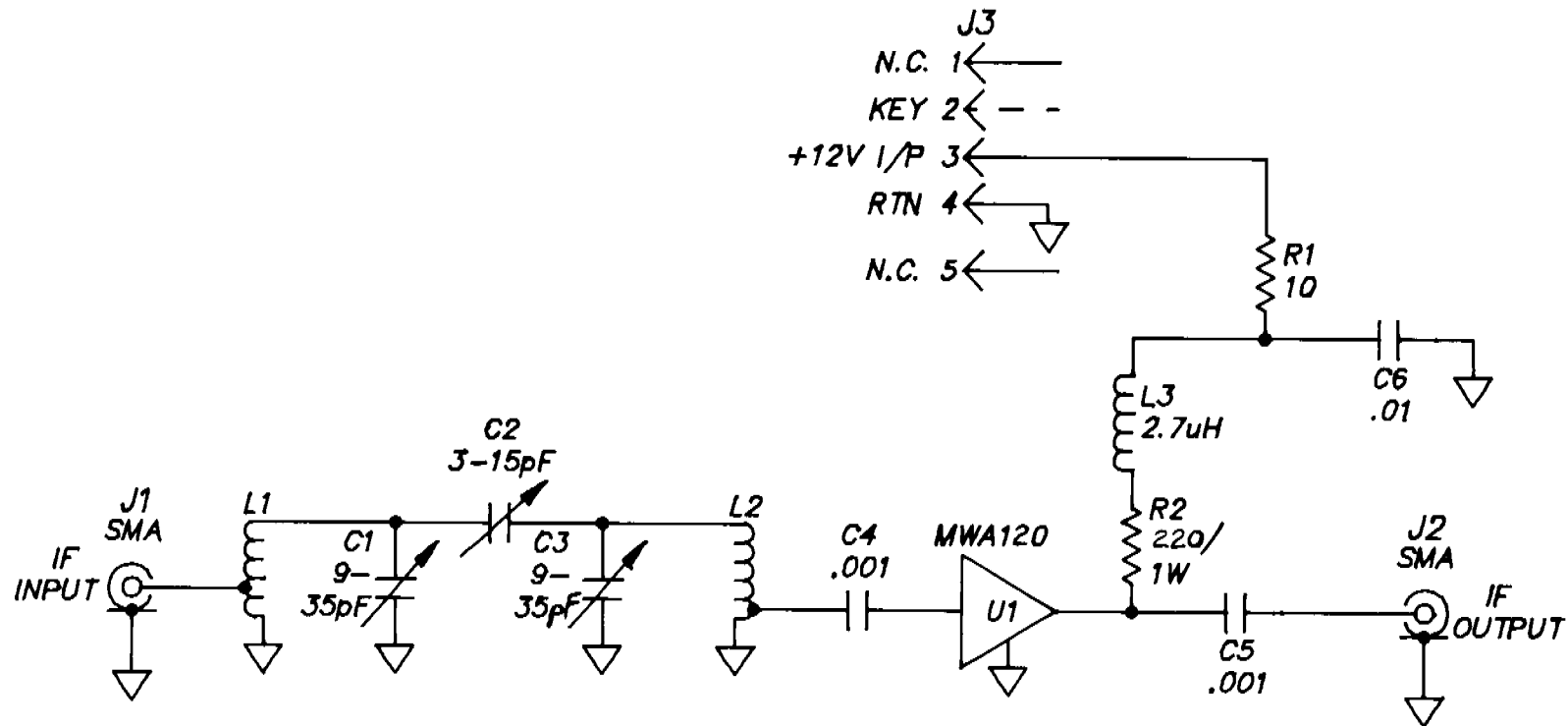
C5
.33

+12V

C4
.1

U49
7812CT

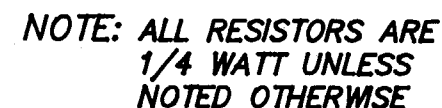




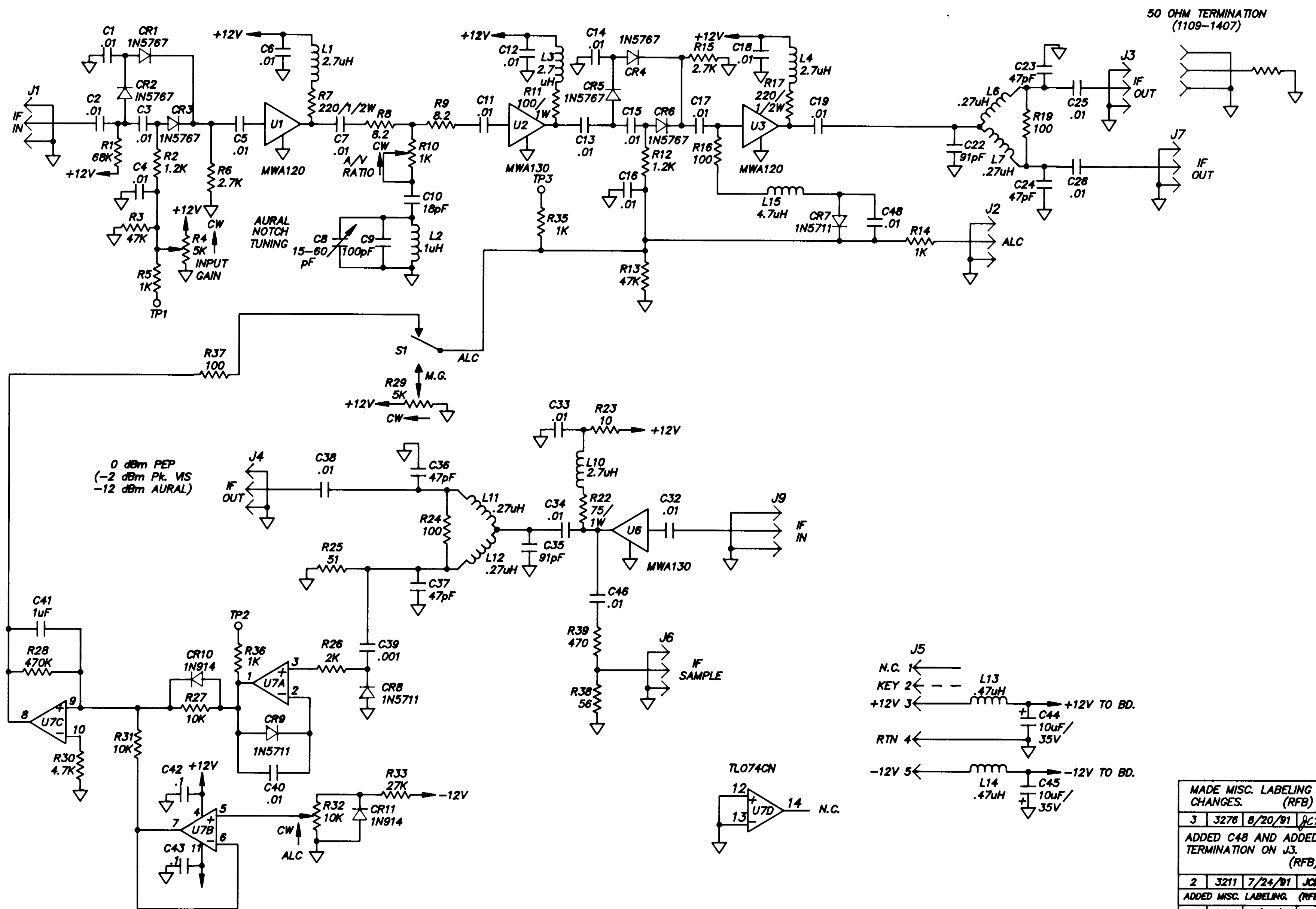
C2 WAS 3-15pF, C3 WAS 35pF, U1 WAS MWA120, R2 WAS 220/1W, J1 WAS SMA, J2 WAS SMA		REVISED & REDRAWN ON CAD. C2 WAS 2-8pF. CHG SMA'S	
1	2982	2-19-91	JEO
0	232	11/17/89	APV

ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
				SCHEMATIC - IF FILTER/AMPLIFIER BD. (1005-1205)			
MATERIAL		DWN	D.D.	1/22/83	DWG. NO.		REV
FINISH		CHK	RWZ	1/25/83	1005-3205		1
		REL	JCM	11/17/89	A	SCALE ---	SHEET 1 OF 1

DO NOT REUSE

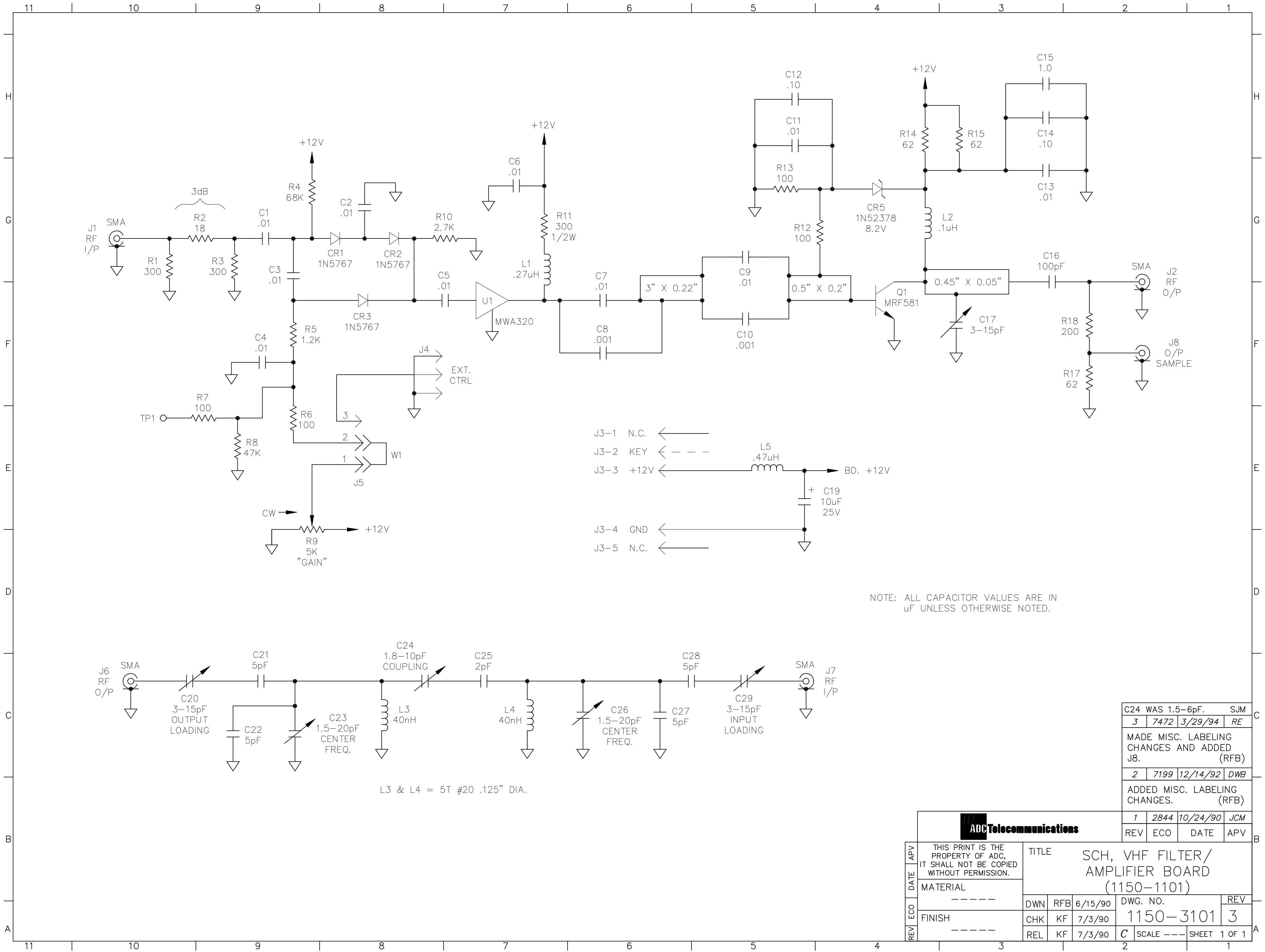


U2 WAS MWA 330. L1 WAS .7uh. (RFB)										2 321 7/24/91 JCM										ADDED LABELING TO J4, R1 WAS 110/1W, U1 WAS MWA130. (RFB)										1 2982 2/19/91 JCM										U2 WAS MWA 130. JEO										0 1672 2/14/89 RE										REV ECN DATE APV										THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.										TITLE SCHEMATIC - VHF MIXER/AMPLIFIER BD. (1035-1901)										DWN JEO 3/29/88										DWG. NO. 1035-3901										REV 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	



MADE MISC. LABELING CHANGES. (RFB)				
3	3276	8/20/91	JCM	
ADDED C48 AND ADDED TERMINATION ON J3. (RFB)				
2	3211	7/24/91	JCM	
ADDED MISC. LABELING. (RFB)				
1	3091	5/23/91	JCM	
REV	ECN	DATE	APV	

ITS CORPORATION				
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				
DATE	APV	TITLE	SCHEMATIC - IF ALC, 45.75 MHz (1109-1402)	
REV	ECN	MATERIAL	DWN	RFB
		FINISH	CHK	JMW
			REL	JMW
			SCALE	SHEET 1 OF 1

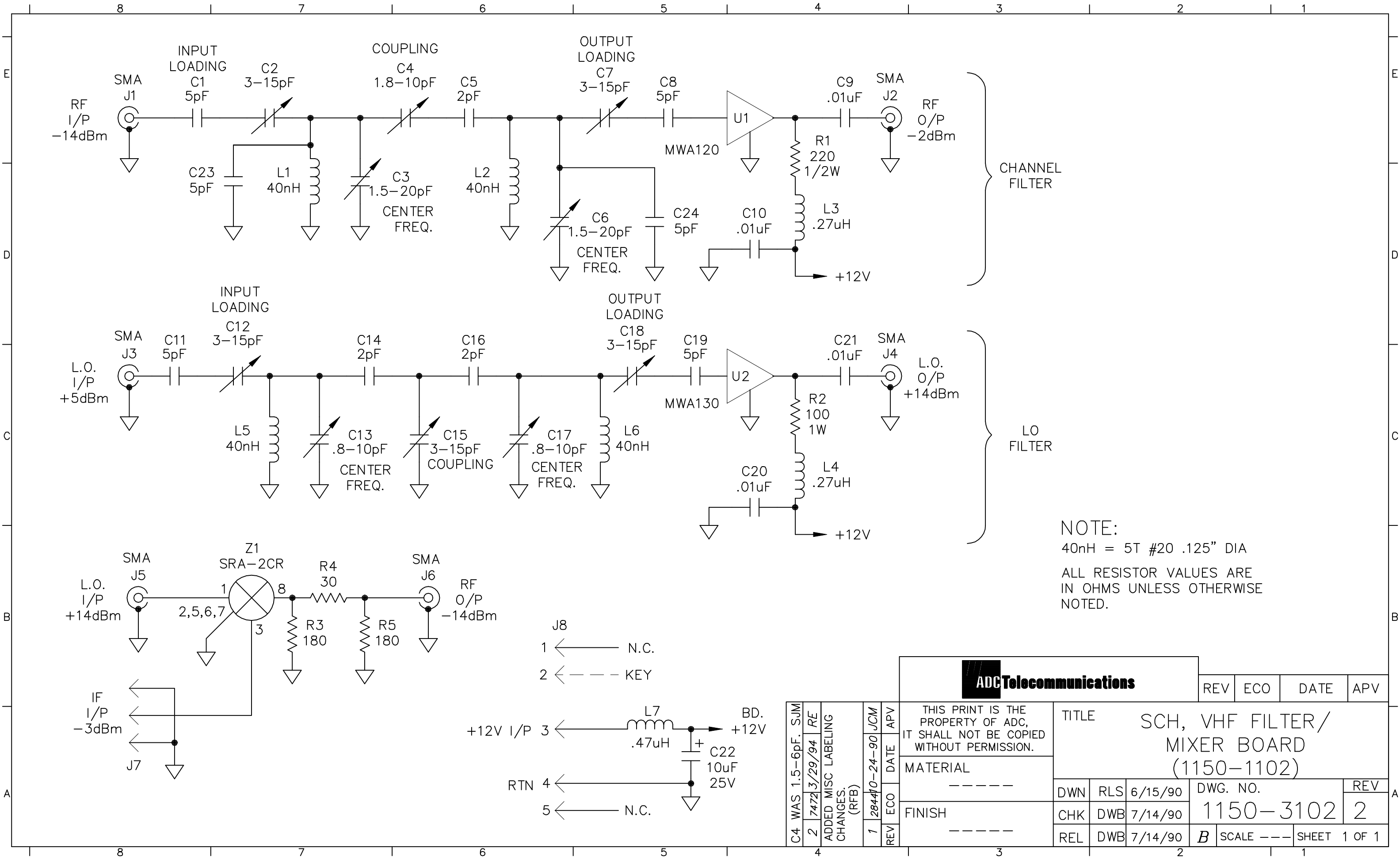


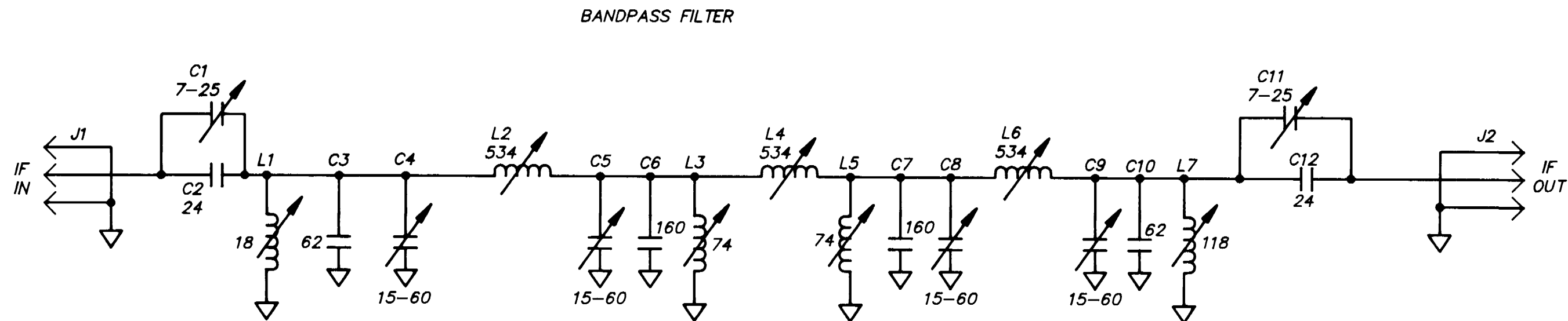
NOTE: ALL CAPACITOR VALUES ARE IN
uF UNLESS OTHERWISE NOTED.

L3 & L4 = 5T #20 .125" DIA.

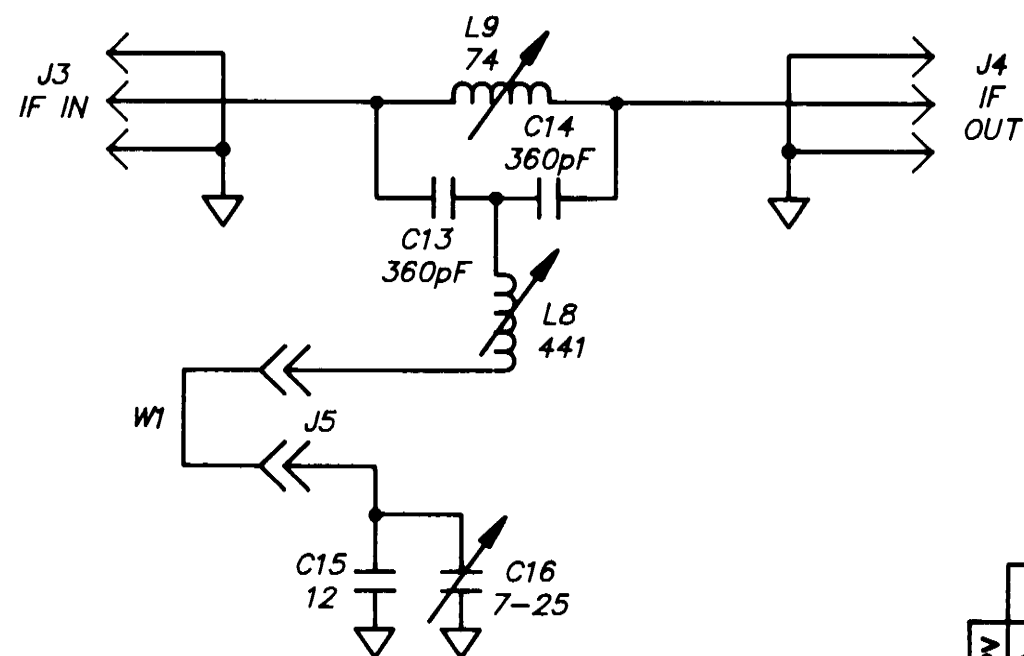
ADC Telecommunications				1	2844	10/24/90	JCM
REV	ECO	DATE	APV	2	7199	12/14/92	DWB
THIS PRINT IS THE PROPERTY OF ADC. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
MATERIAL				SCH, VHF FILTER/ AMPLIFIER BOARD (1150-1101)			
FINISH				DWN	RFB	6/15/90	DWG. NO.
				CHK	KF	7/3/90	1150-3101
				REL	KF	7/3/90	3
				SCALE ---		SHEET 1 OF 1	

C24 WAS 1.5-6pF.				SJM
3	7472	3/29/94	RE	
MADE MISC. LABELING CHANGES AND ADDED J8. (RFB)				
2	7199	12/14/92	DWB	
ADDED MISC. LABELING CHANGES. (RFB)				

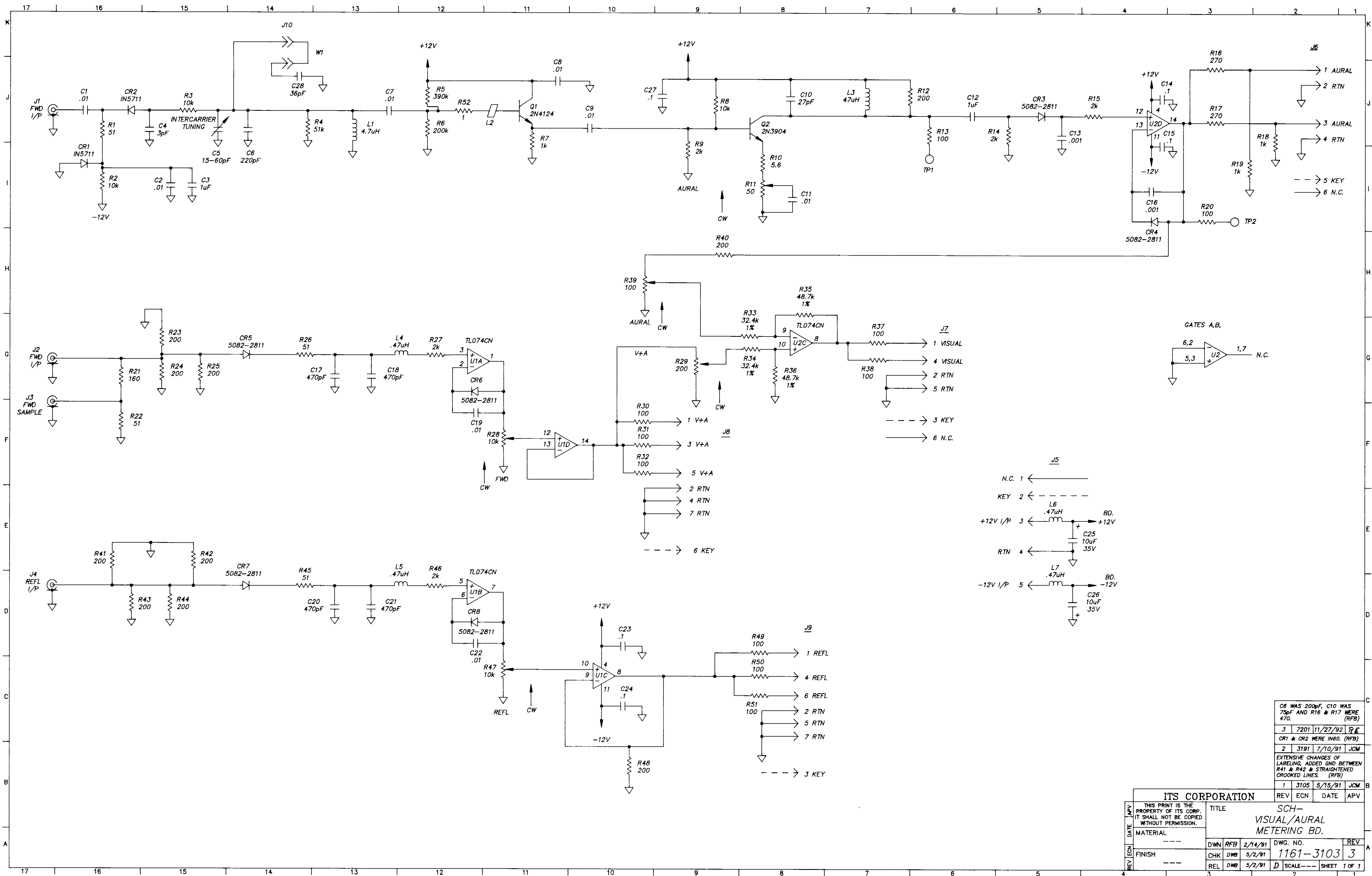




ALL CAPACITANCES IN pF
ALL INDUCTANCES IN nH
DELAY EQUALIZER

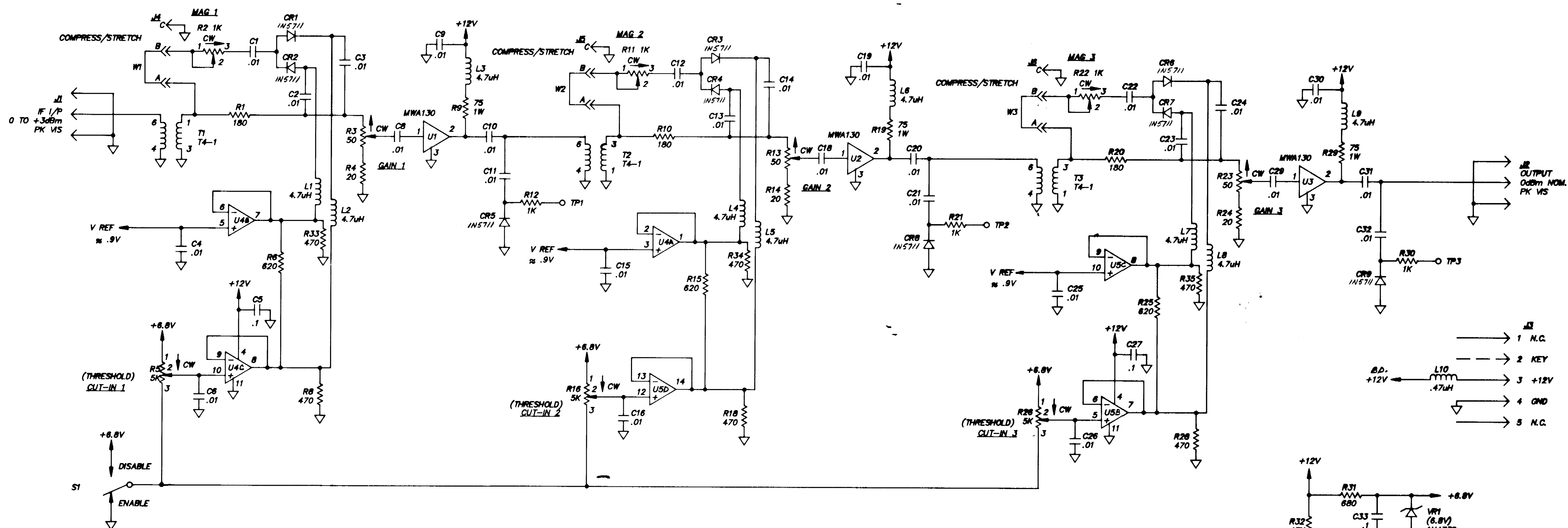


ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE 45.75 MHz IF FILTER			
				MATERIAL ---			
APV	DATE	REV	ECN	DWN	RFB	2/22/91	DWG. NO. 1161-3007
REV	ECN	FINISH	---	CHK	DWB	5-2-91	REV 0
REL	DWB	5-2-91	B	SCALE	---	SHEET	1 OF 1

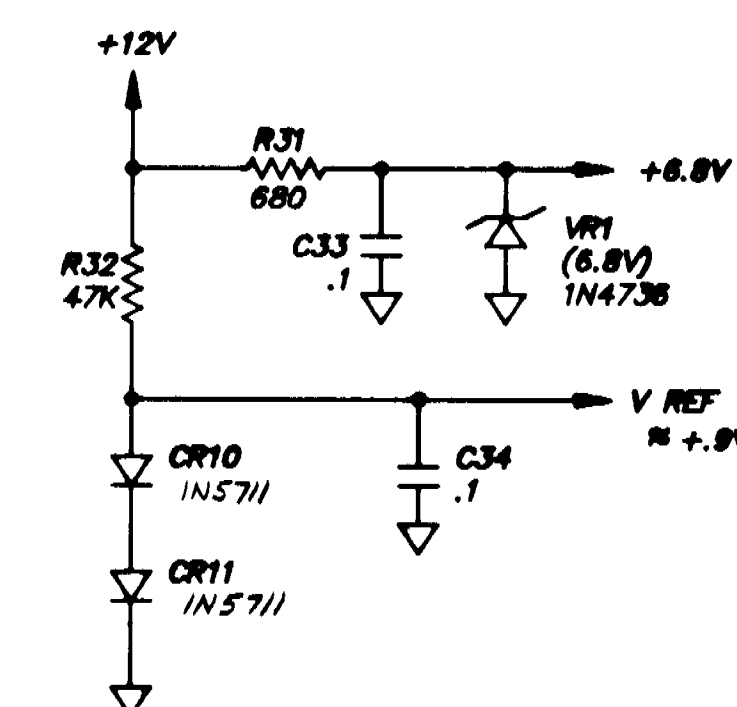
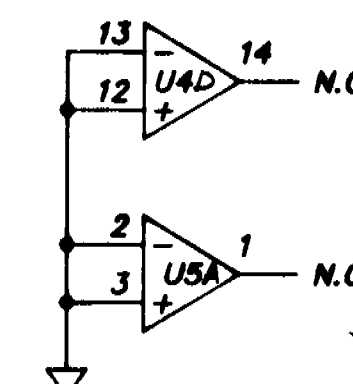
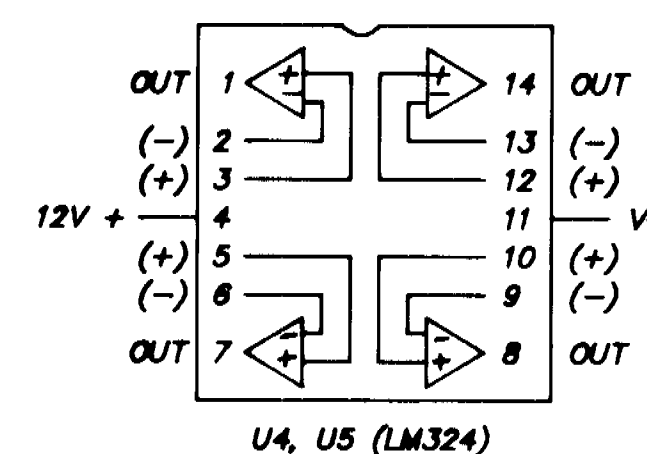


C6 WAS 200pF, C10 WAS 75pF AND R16 & R17 WERE 470. (RFB)			
3	7201	11/27/92	RFB
CR1 & CR2 WERE IN60. (RFB)			
2	3191	7/10/91	JCM
EXTENSIVE CHANGES OF LABELING, ADDED GND BETWEEN R41 & R42 & STRAIGHTENED CROOKED LINES. (RFB)			
1	3105	5/15/91	JCM

ITS CORPORATION			
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE	
MATERIAL		SCH- VISUAL/AURAL METERING BD.	
REV	ECN	DATE	APV
---	DWN	RFB	2/14/91
---	CHK	DWB	5/2/91
---	REL	DWB	5/2/91
DWG. NO.		REV	
1161-3103		3	
SCALE----		SHEET 1 OF 1	

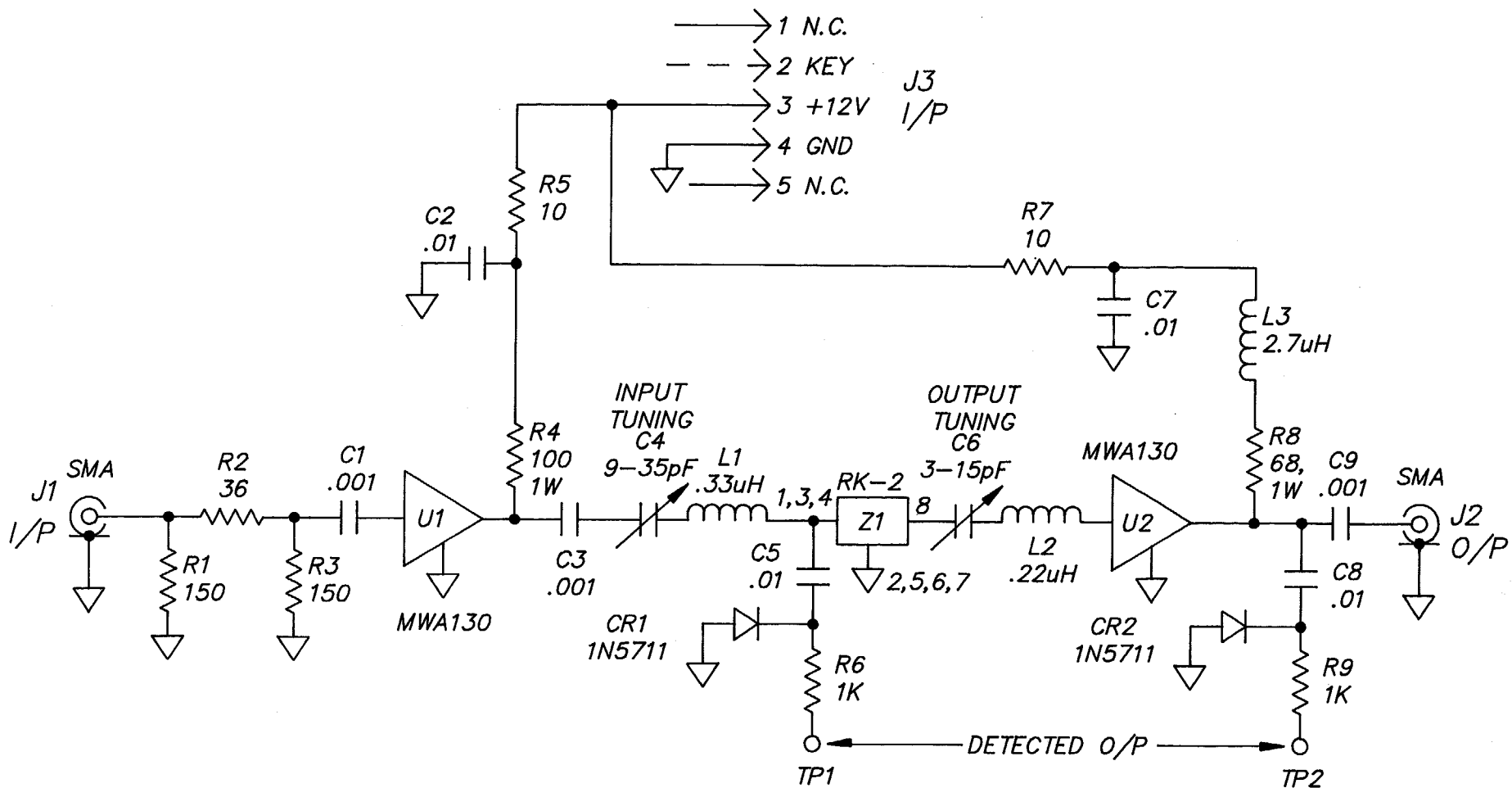


NOTE: ALL RESISTORS ARE 1/4W, 5% UNLESS NOTED OTHERWISE.

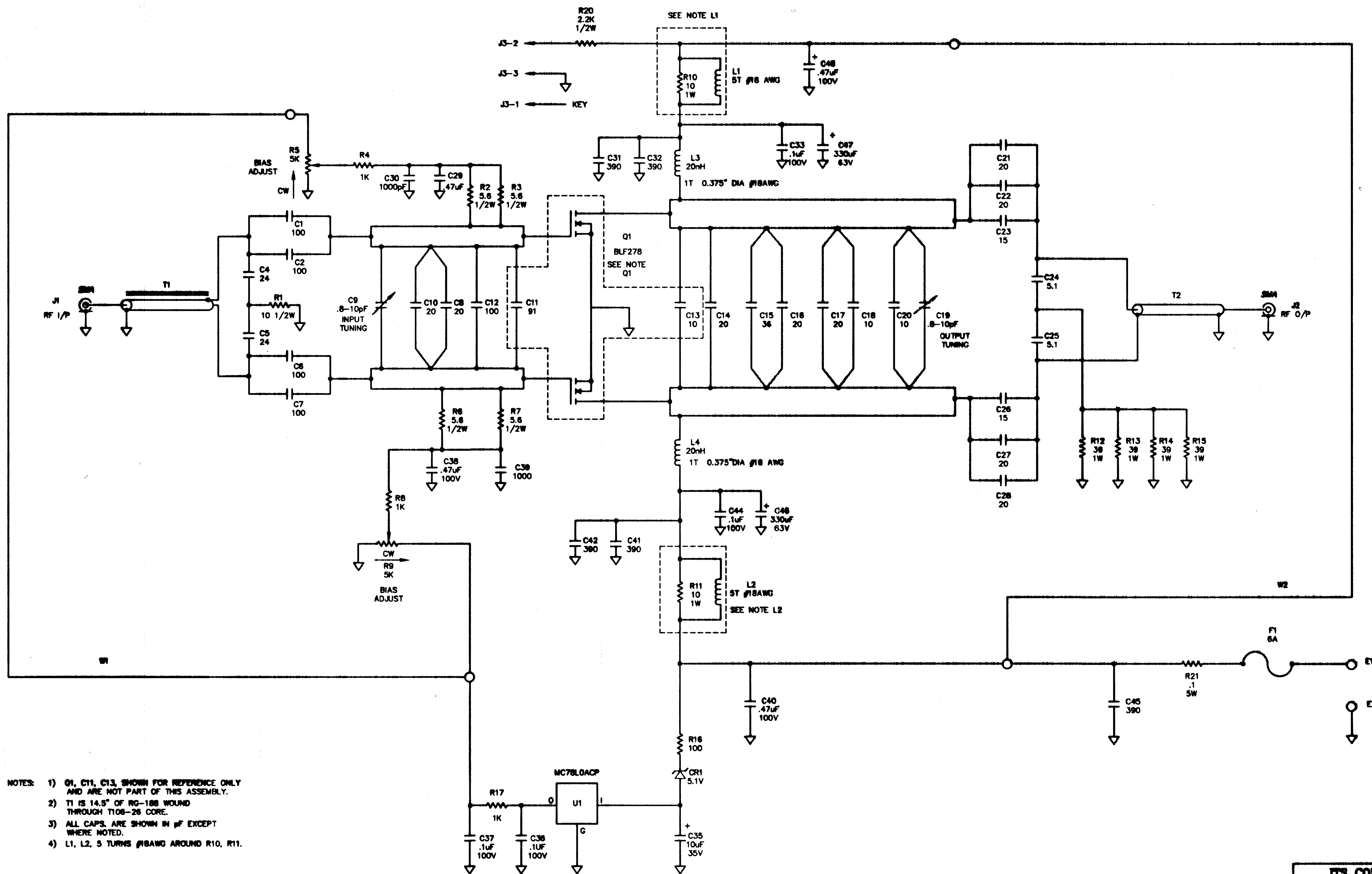


REVISIONS

ITS CORPORATION		REV	EON	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE			
MATERIAL		LIN. CORR. BD., 3 BK. PT. (1161-1116)			
FINISH		DWN	8-6-91	DWS. NO.	1161-3116
		CHK	8-6-91	REL	8-6-91
		D SCALE SHEET 1 OF 1			



ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE SCHEMATIC - X2 MULTIPLIER BD, L.B. VHF (1172-1111)					
MATERIAL -----		DWN	SJM	9/17/93	DWG. NO. 1172-3111		REV 0
FINISH -----		CHK	DWB	7-17-93			
		REL	DWB	7-17-93	A	SCALE----	SHEET 1 OF 1

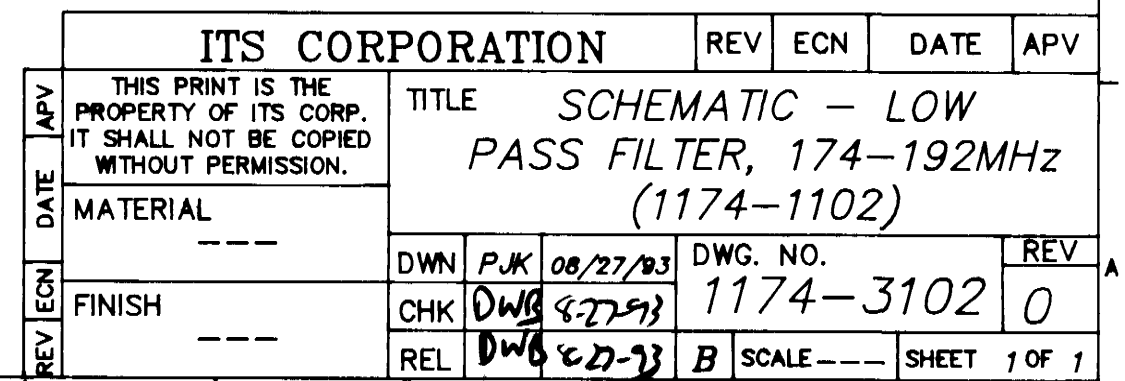


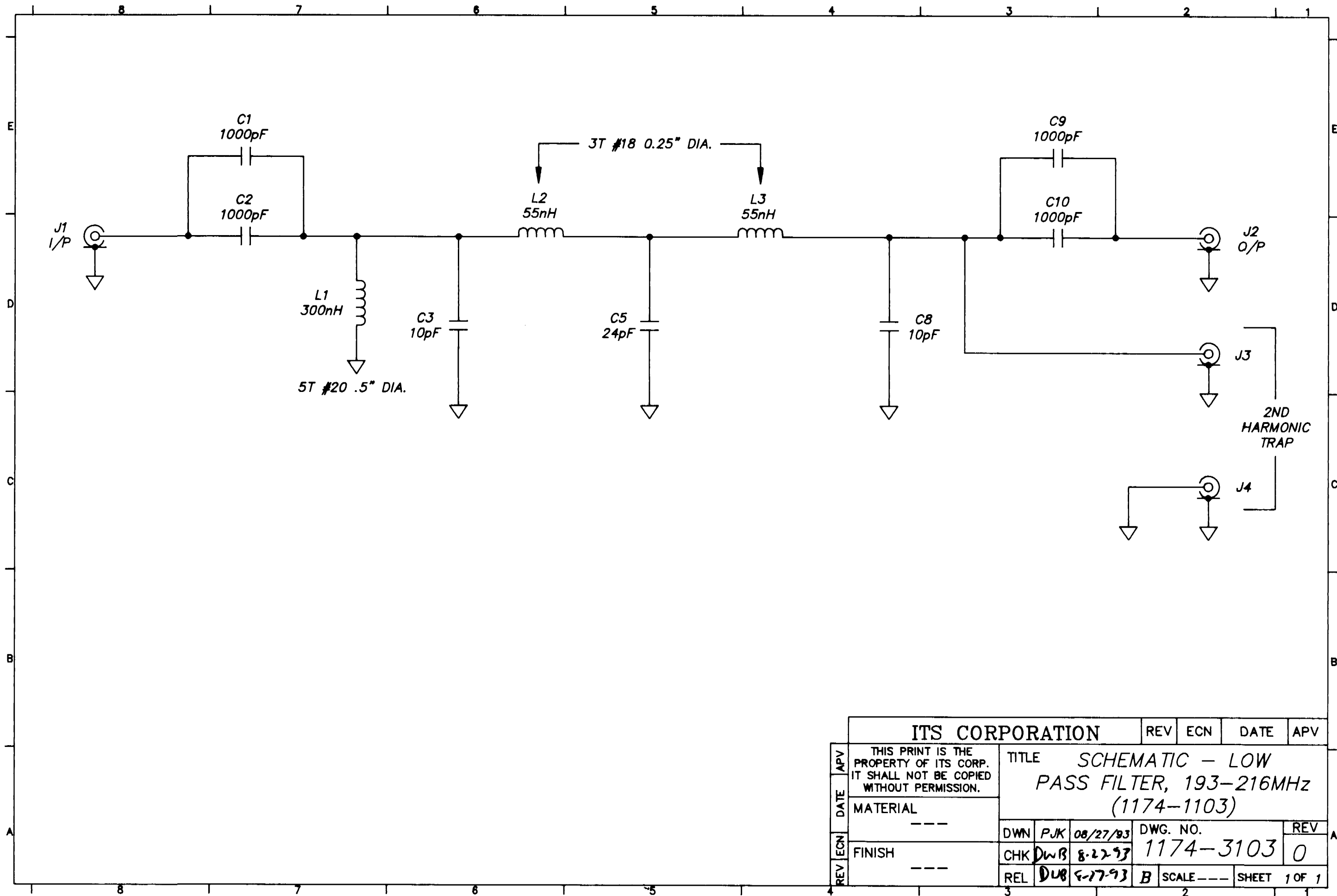
- NOTES:
- 1) Q1, C11, C13, SHOWN FOR REFERENCE ONLY AND ARE NOT PART OF THIS ASSEMBLY.
 - 2) T1 IS 14.5" OF RG-188 WOUND THROUGH T108-26 CORE.
 - 3) ALL CAPS. ARE SHOWN IN pF EXCEPT WHERE NOTED.
 - 4) L1, L2, 5 TURNS #18AWG AROUND R10, R11.

DELETED R10 - 6.8K RES.
DELETED R10 - 3K THER-
MISTOR (P.A.O.)

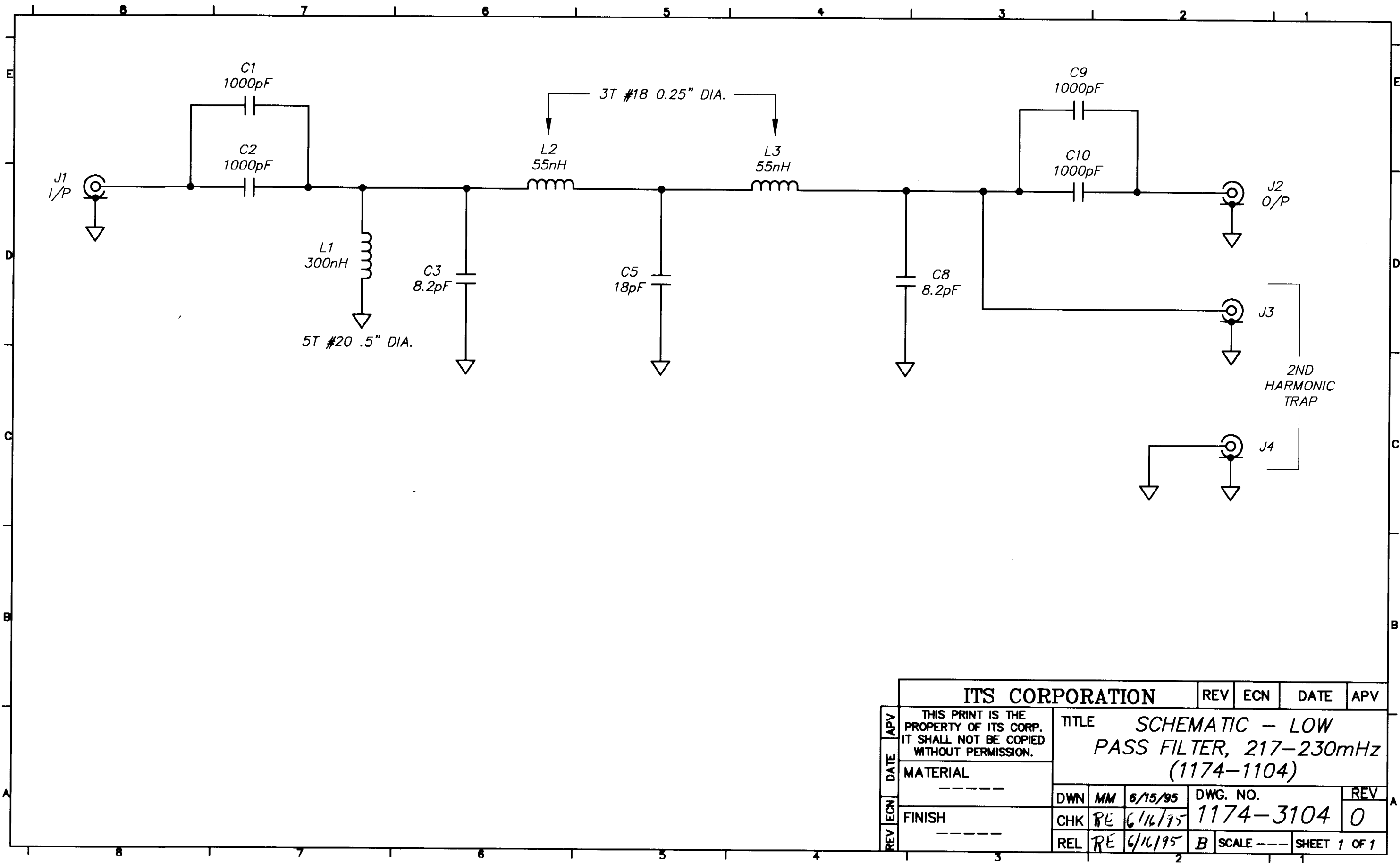
2 10/79 6/8/97 JEC
C10 WAS C10. C30 WAS CON-
NECTED AT BOTTOM OF R10.
S.M.

ITS CORPORATION			
REV	ECN	DATE	APV
1	7/79	6/8/94	RE
TITLE SCHEMATIC, HB AMPLIFIER BD. (1174-1101)			
MATERIAL		CHK'D BY 1174-3101	REV 2
FINISH		REL'D BY 1174-3101	REV 2
DATE		11/79	1/80
REV		11/79	1/80

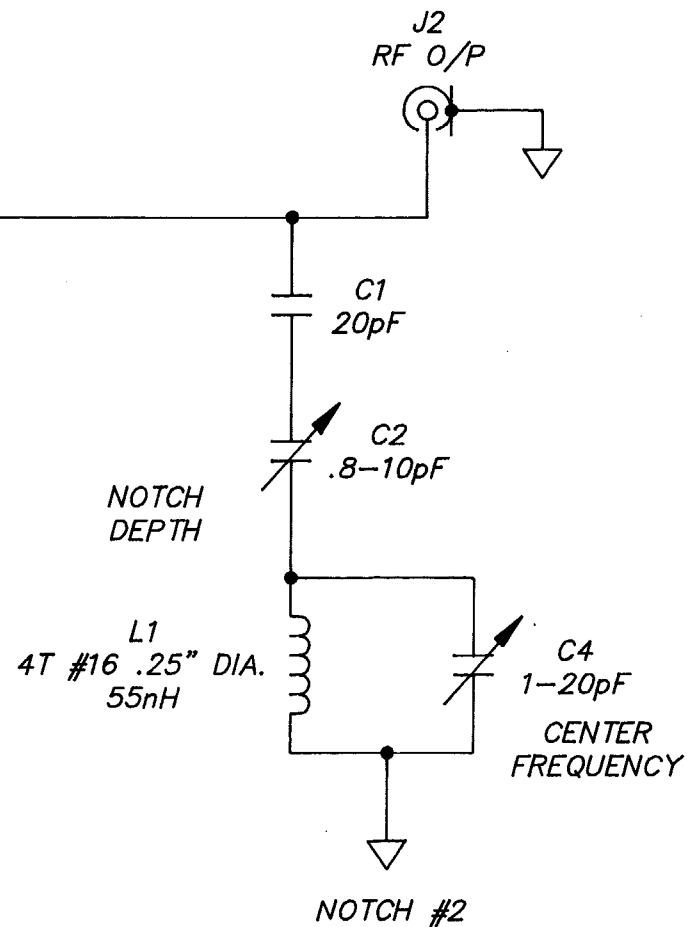
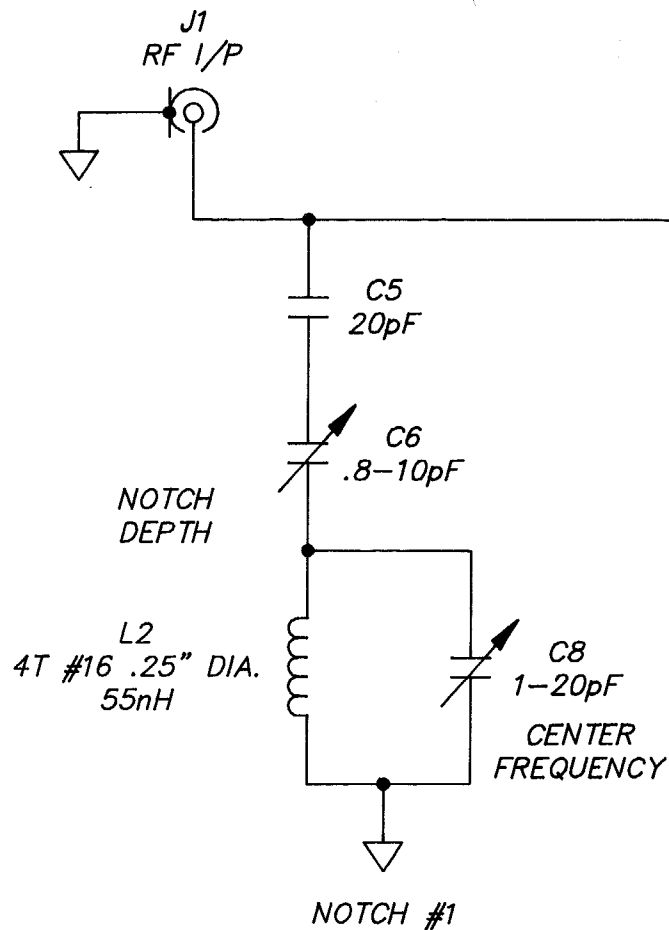




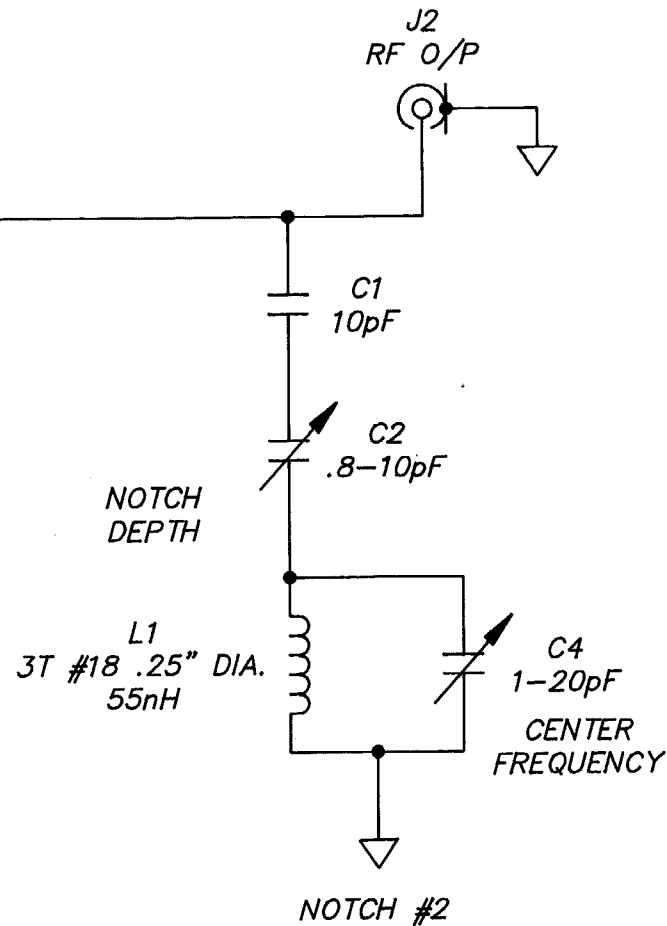
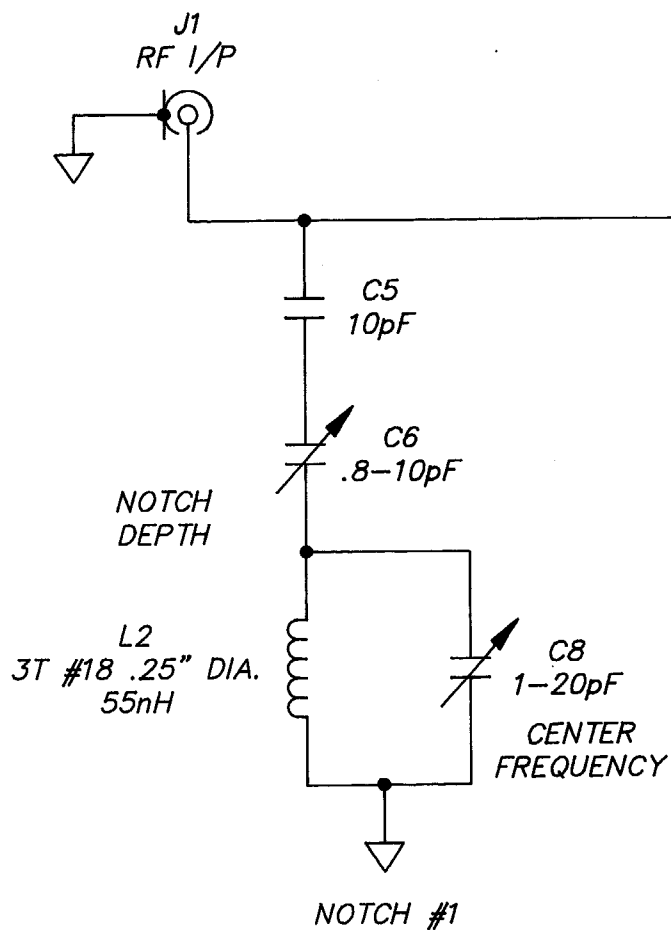
ITS CORPORATION				REV	ECN	DATE	APV		
REV	ECN	DATE	APV	TITLE SCHEMATIC - LOW PASS FILTER, 193-216MHz (1174-1103)					
				MATERIAL ---					
REV	ECN	DATE	APV	FINISH ---					
				DWN	PJK	08/27/93	DWG. NO. 1174-3103	REV 0	
				CHK	DWB	8-22-93			
				REL	DUB	8-27-93	B	SCALE----	SHEET 1 OF 1



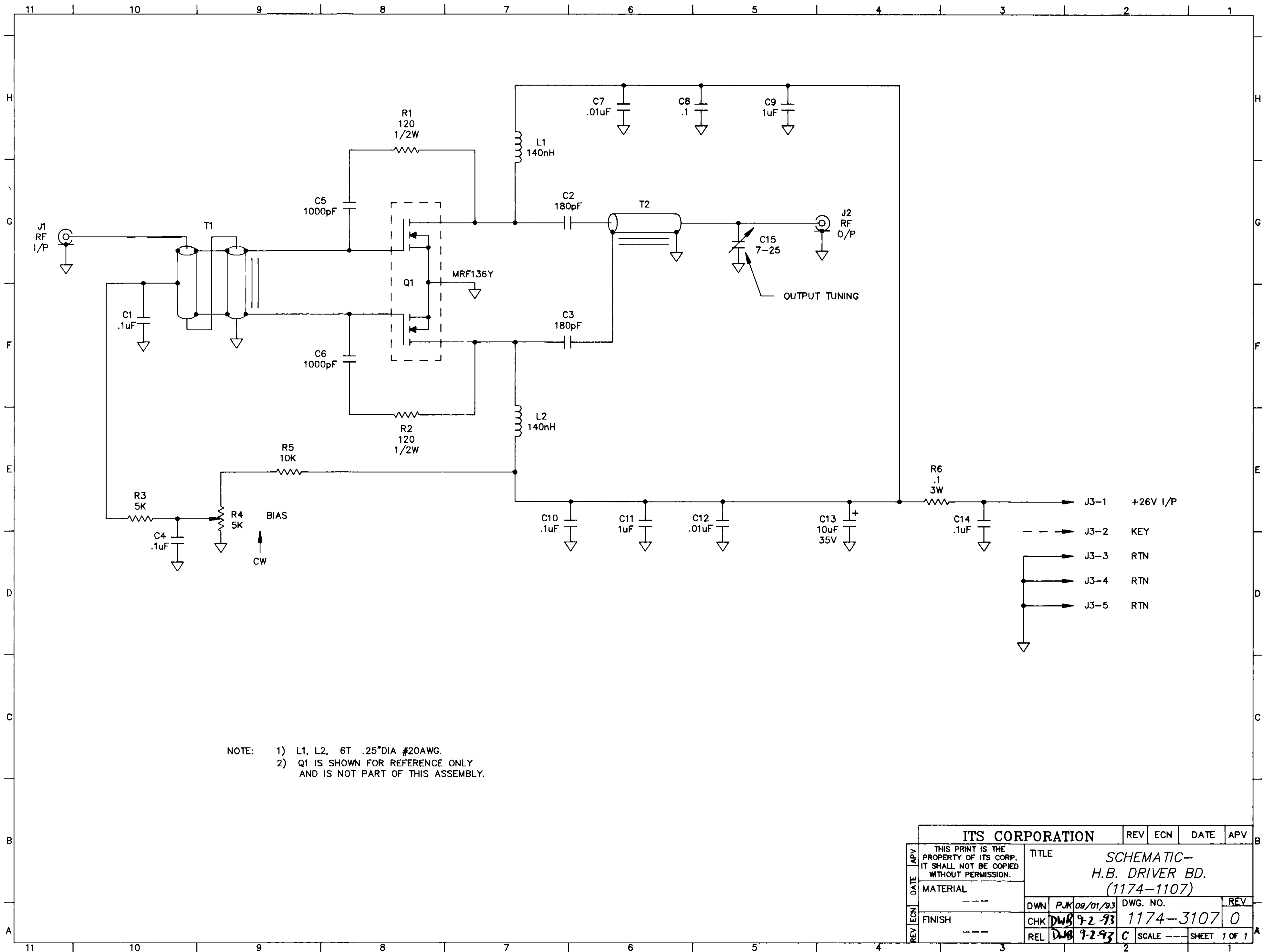
ITS CORPORATION				REV	ECN	DATE	APV	
REV	ECN	DATE	APV	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				
				TITLE SCHEMATIC - LOW PASS FILTER, 217-230mHz (1174-1104)				
MATERIAL				DWN	MM	6/15/95	DWG. NO.	REV
FINISH				CHK	RE	6/16/95	1174-3104	0
				REL	RE	6/16/95	B	SCALE --- SHEET 1 OF 1



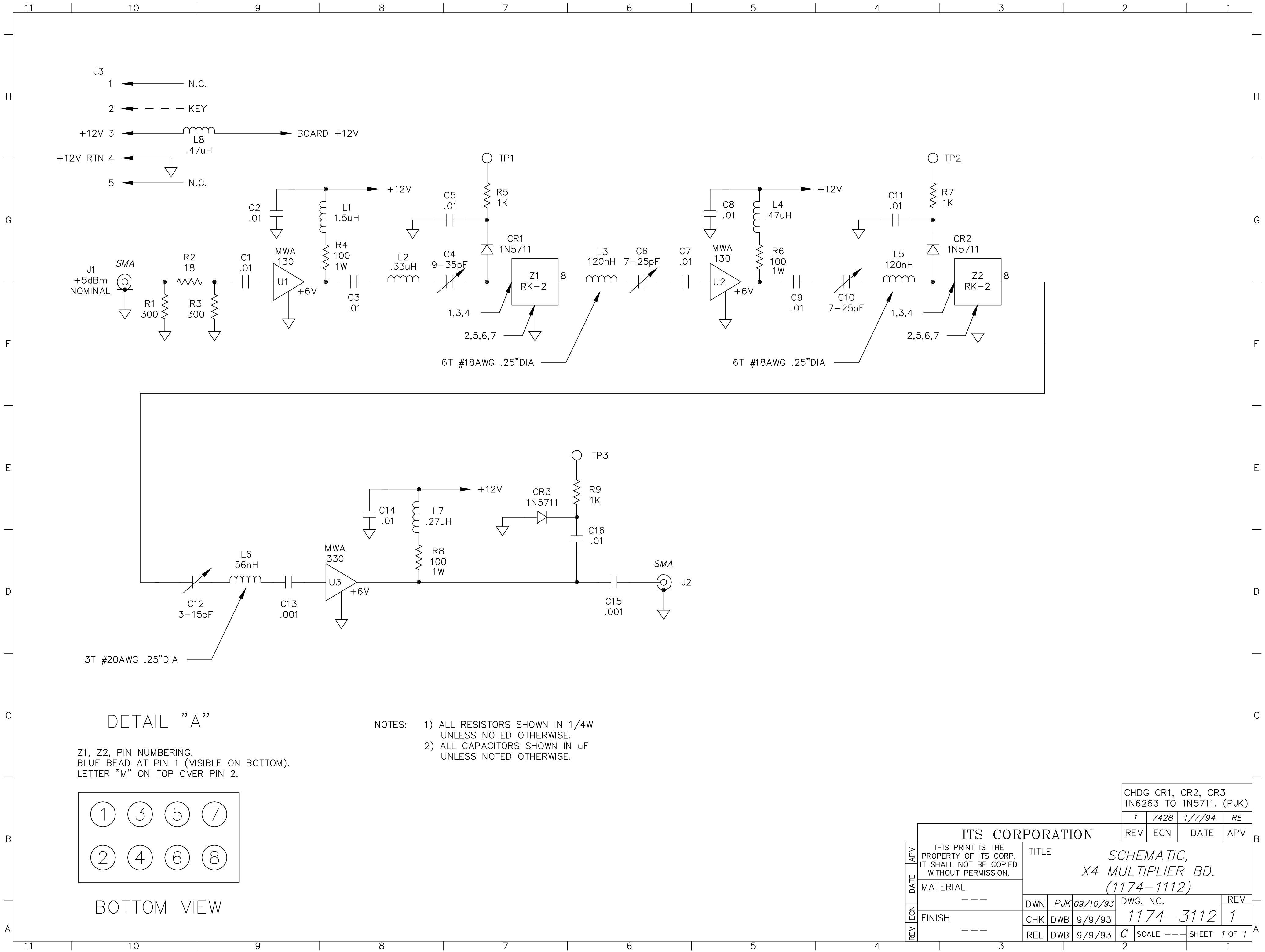
ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE SCHEMATIC - TRAP FILTER BD. 174-216MHz (1174-1105)			
MATERIAL				DWN		SJM	8/27/93
FINISH				CHK		DWB	8-27-93
				REL		DWB	8-27-93
				DWG. NO.		1174-3105	
				REV		0	
				SCALE		SHEET 1 OF 1	



ITS CORPORATION				REV	ECN	DATE	APV
REV	ECN	DATE	APV	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.			
				TITLE SCHEMATIC - TRAP FILTER BD 217-238MHz (1174-1106)			
				MATERIAL ----			
REV	ECN	DATE	APV	DWN	SJM	8/26/93	DWG. NO.
				CHK	DWB	8-27-93	1174-3106
REV	ECN	DATE	APV	REL	DWB	8-27-93	REV
				A	SCALE----	SHEET 1 OF 1	

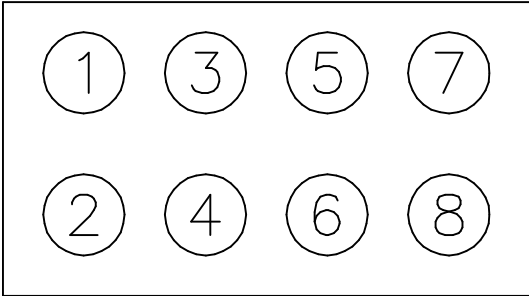


ITS CORPORATION				REV	ECN	DATE	APV
REV	DATE	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE			
	DATE	MATERIAL		SCHEMATIC- H.B. DRIVER BD. (1174-1107)			
	DATE	FINISH		DWN	PJK 09/01/93	DWG. NO.	REV
	DATE			CHK	DW 9-2-93	1174-3107	0
REL	DW 9-2-93	C	SCALE	----	SHEET	1 OF 1	



DETAIL "A"

Z1, Z2, PIN NUMBERING.
BLUE BEAD AT PIN 1 (VISIBLE ON BOTTOM).
LETTER "M" ON TOP OVER PIN 2.



BOTTOM VIEW

- NOTES:
- 1) ALL RESISTORS SHOWN IN 1/4W UNLESS NOTED OTHERWISE.
 - 2) ALL CAPACITORS SHOWN IN uF UNLESS NOTED OTHERWISE.

CHDGD CR1, CR2, CR3 1N6263 TO 1N5711. (PJK)			
1	7428	1/7/94	RE
REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.			
MATERIAL		TITLE	
---		SCHEMATIC, X4 MULTIPLIER BD. (1174-1112)	
DWN	PJK	09/10/93	DWG. NO.
CHK	DWB	9/9/93	1174-3112
REL	DWB	9/9/93	1
REV	ECN	DATE	APV
1	7428	1/7/94	RE
SCALE	---	SHEET	1 OF 1

