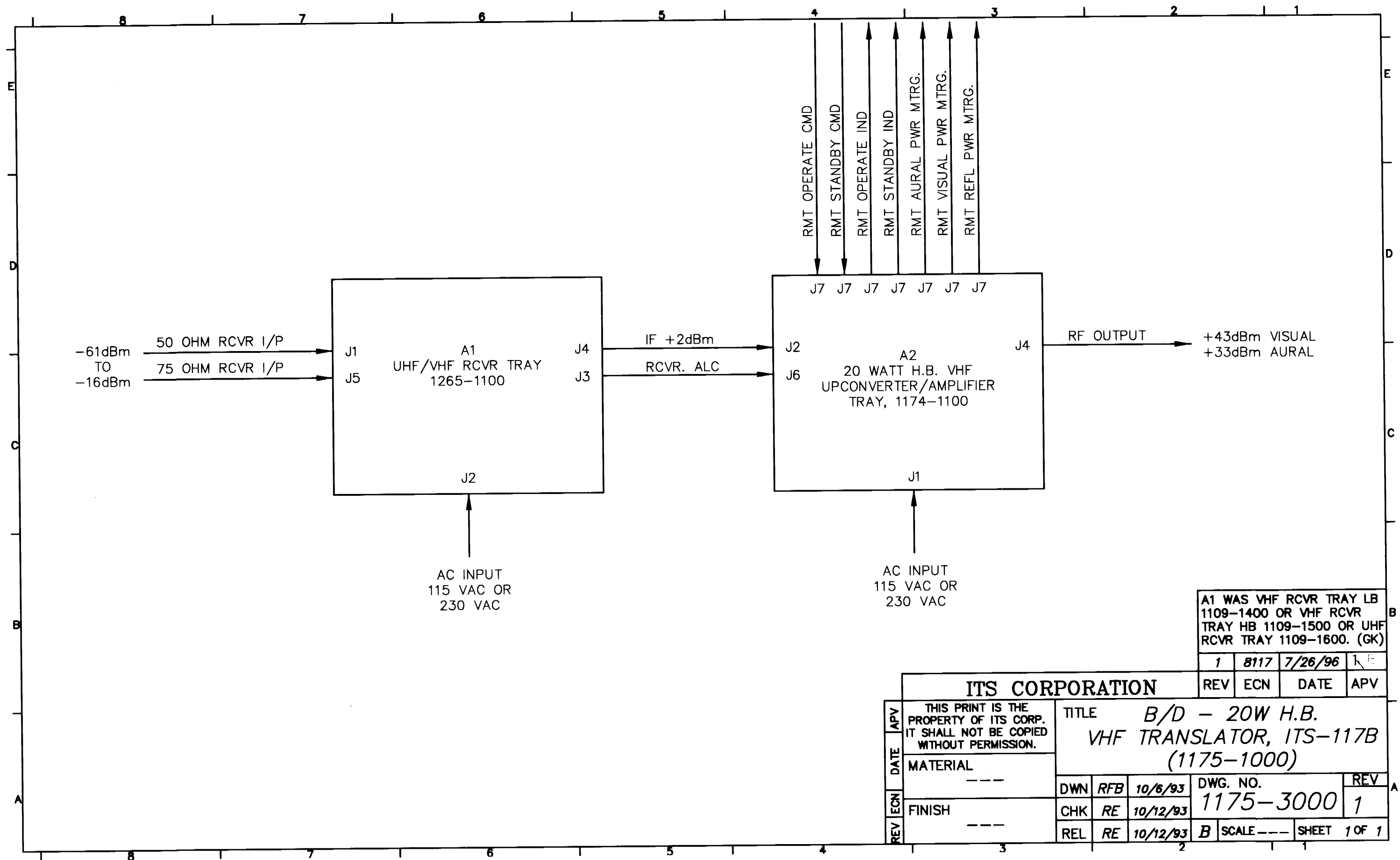
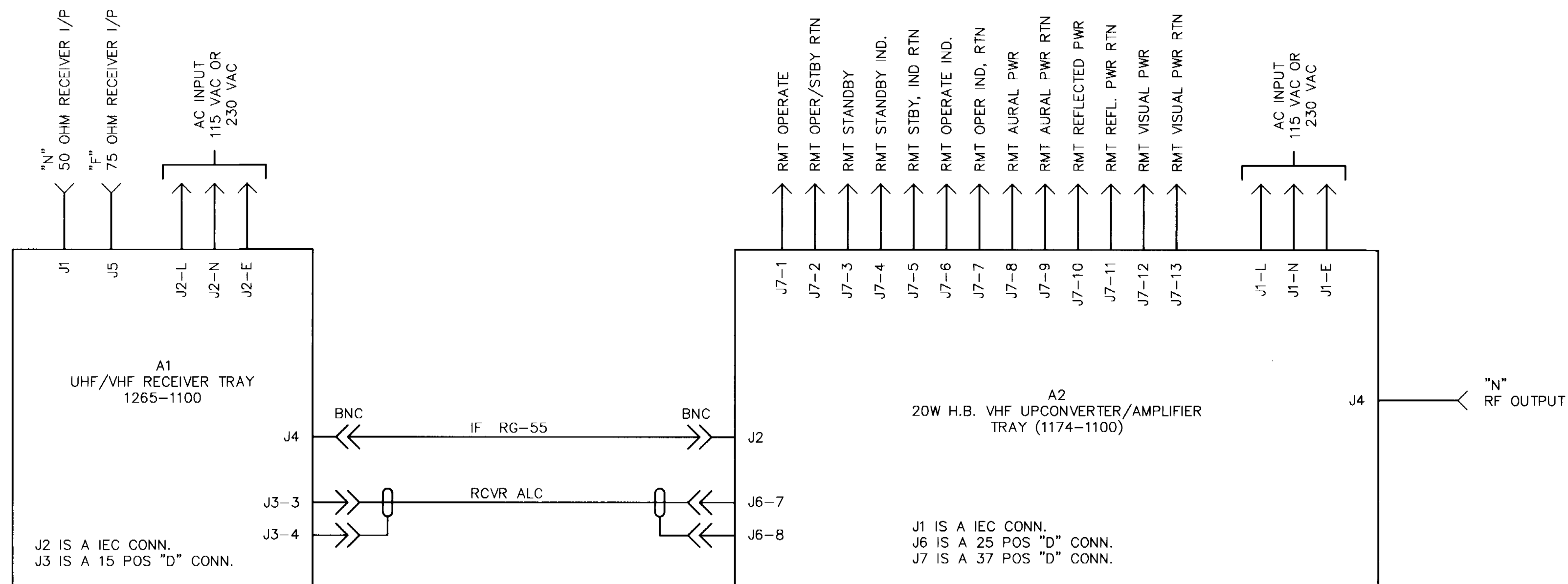




A1 WAS VHF RCVR TRAY LB
1109-1400 OR VHF RCVR
TRAY HB 1109-1500 OR UHF
RCVR TRAY 1109-1600. (GK)

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 <i>B/D - 20W H.B.</i> <i>VHF TRANSLATOR, ITS-117B</i> <i>(1175-1000)</i>				
					MATERIAL ---		DWN	<i>RFB</i>	<i>10/6/93</i>
FINISH ---		CHK	<i>RE</i>	<i>10/12/93</i>					
		REL	<i>RE</i>	<i>10/12/93</i>	<i>B</i>	SCALE ---	SHEET 1 OF 1		

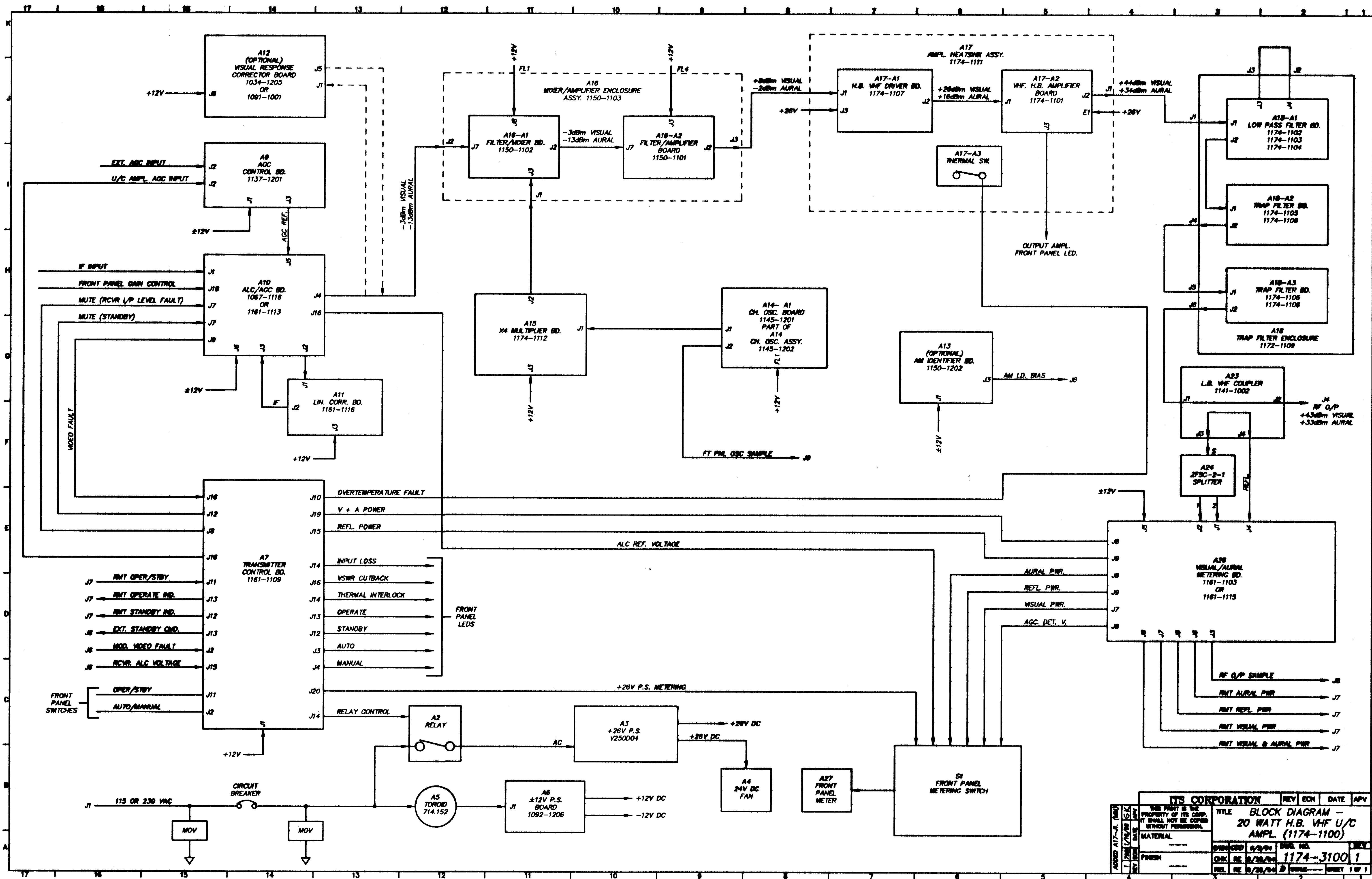


NOTES:

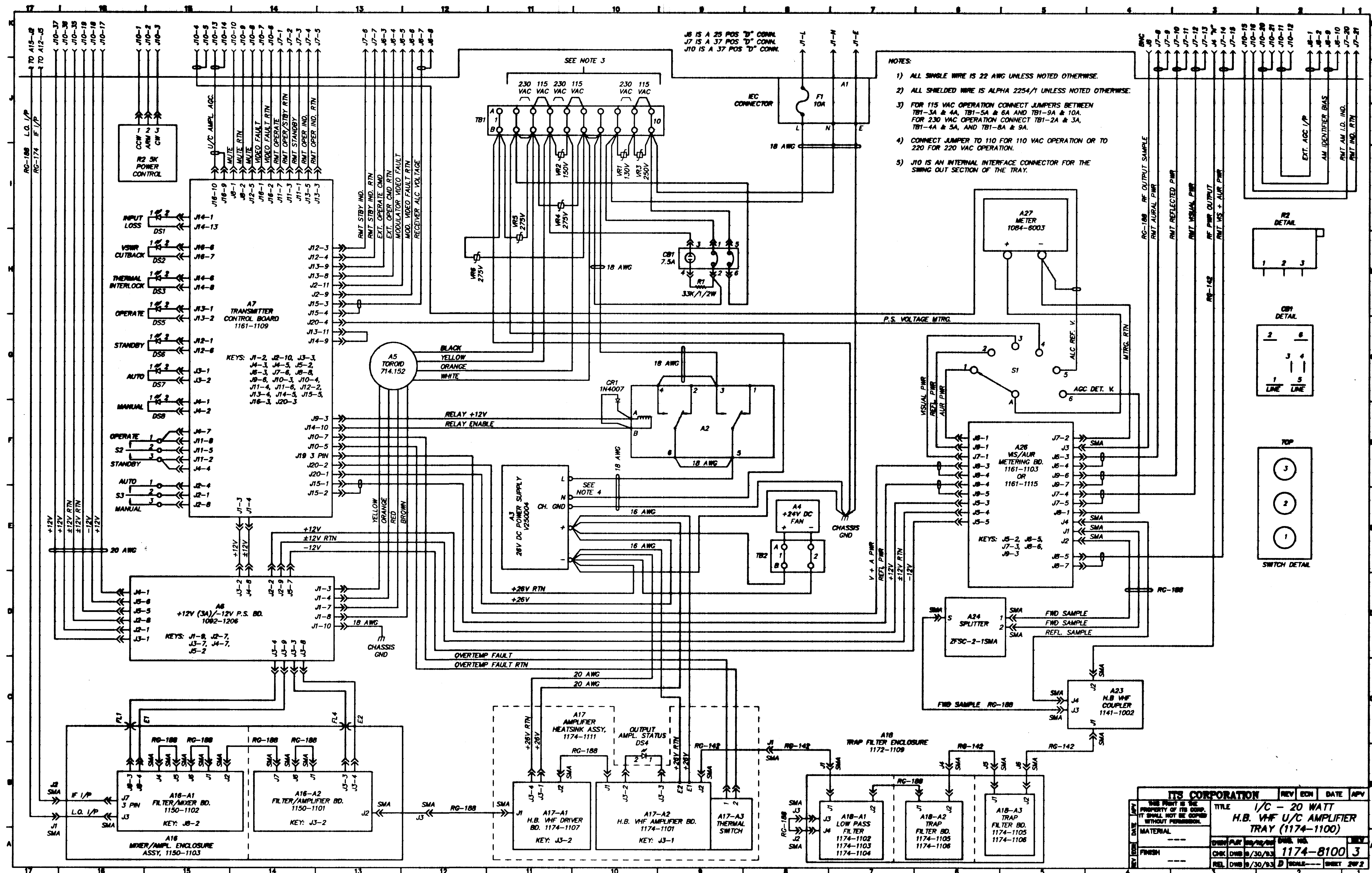
- 1) ALL SINGLE WIRE IS 22 AWG UNLESS NOTED OTHERWISE.
- 2) ALL SHIELDED WIRE IS BELDEN YR40143 UNLESS NOTED OTHERWISE.

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.
1	8117	7/26/96	T.E.	CHK	RE	10/12/93	1175-8000 1
2	SCALE	---	SHEET 1 OF 1	REL	RE	10/12/93	C



ITS CORPORATION				REV	ECN	DATE	APV
TITLE				BLOCK DIAGRAM -			
				20 WATT H.B. VHF U/C			
				AMPL. (1174-1100)			
MATERIAL				REV. NO.			
1774-1100				1174-3100			
1				1			
1				1			
1				1			
1				1			

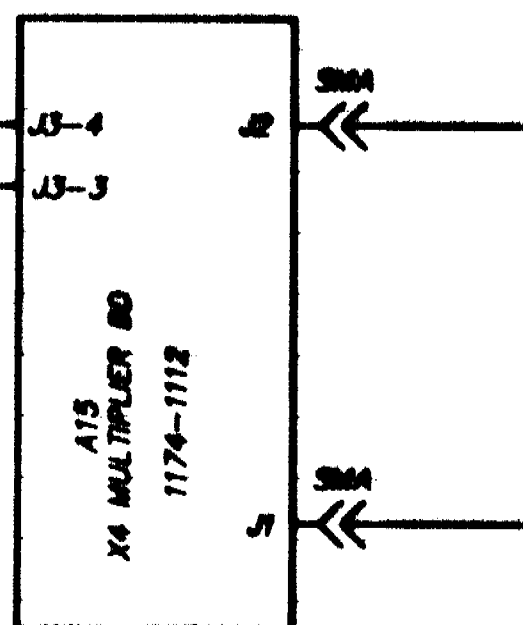
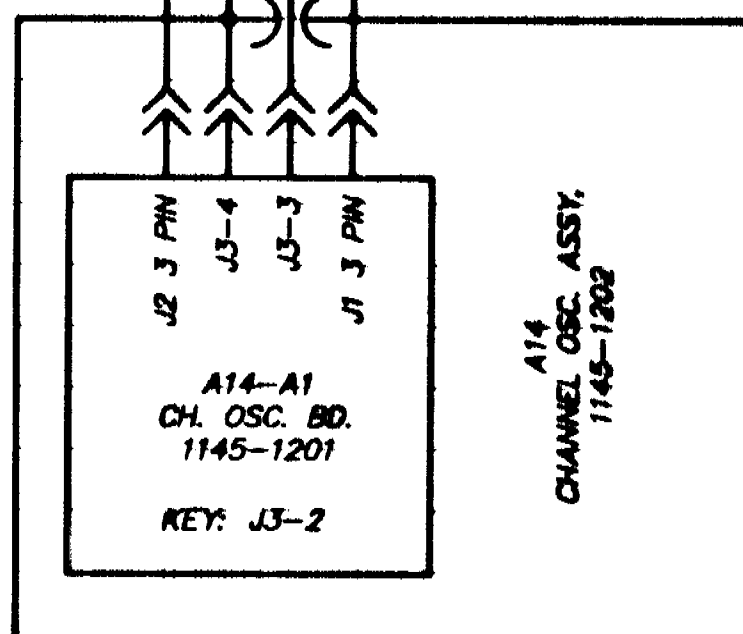
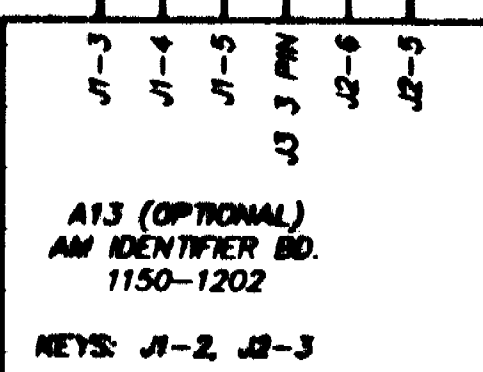
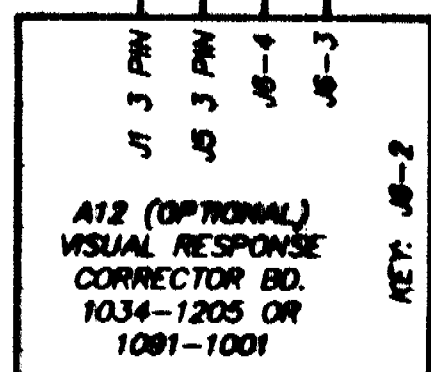
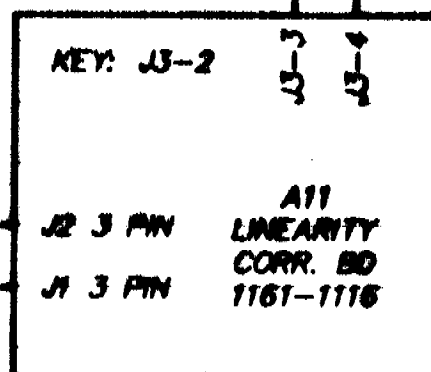
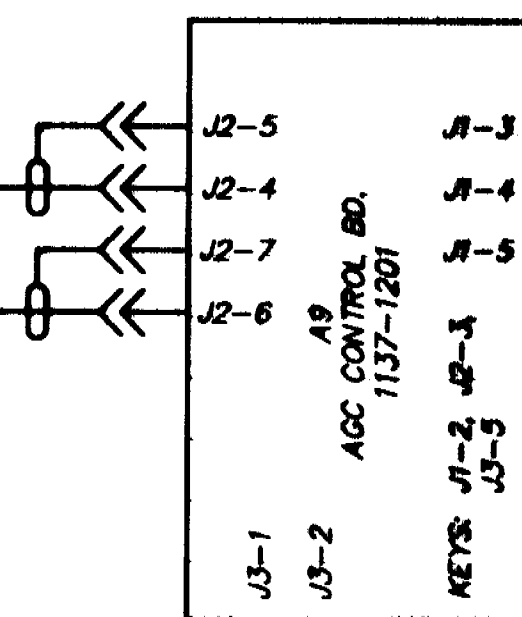
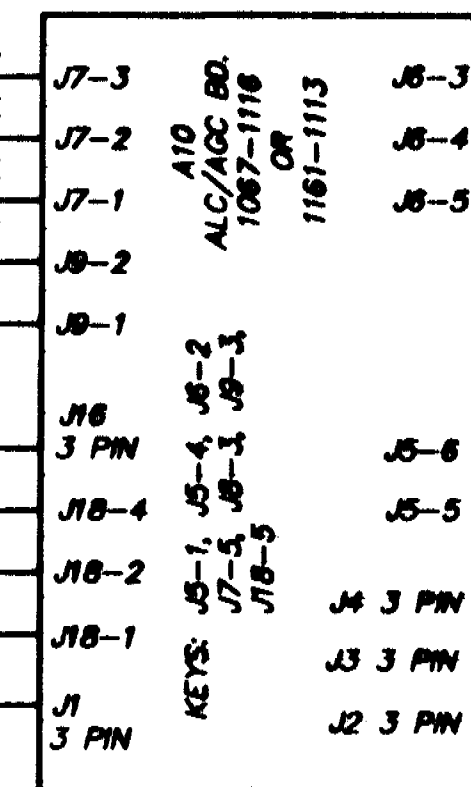


RG-174 F INPUT
J2 BNC
J10-1
J10-2
J10-3
J10-4
J10-5
J10-6
J10-7
J10-8
J10-9
J10-10
J10-11
J10-12
J10-13
J10-14

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.



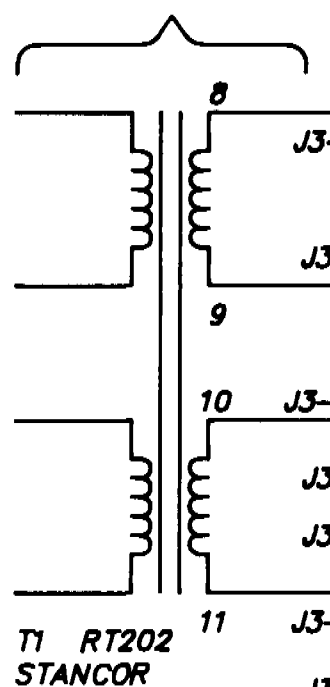
ADDED SWITCH RETAIL. ADDED A17-J (SMA) DS4 HAS AMP. STATUS. (RM)
3 7801 1/16/98 GK
DELETED AND TRAP FILTER BD (SHEET 2 OF 2). SM
2 7801 7/27/98 OK
CHGD X2 TO X4, AND REMOVED 1174-1111 OR FROM A15 MULTIPLIER BD. CHGD L.B. TO H.B. AT A23 WAF COUPLER. ADDED W4007 TO CH. (PJK)
1 7803 8/13/94 RE

REV				DATE				APV			
1				7803				8/13/94			
2				7801				7/27/98			
3				7801				1/16/98			
4				7801				1/16/98			
5				7801				1/16/98			
6				7801				1/16/98			
7				7801				1/16/98			
8				7801				1/16/98			
9				7801				1/16/98			
10				7801				1/16/98			
11				7801				1/16/98			
12				7801				1/16/98			
13				7801				1/16/98			
14				7801				1/16/98			
15				7801				1/16/98			
16				7801				1/16/98			
17				7801				1/16/98			

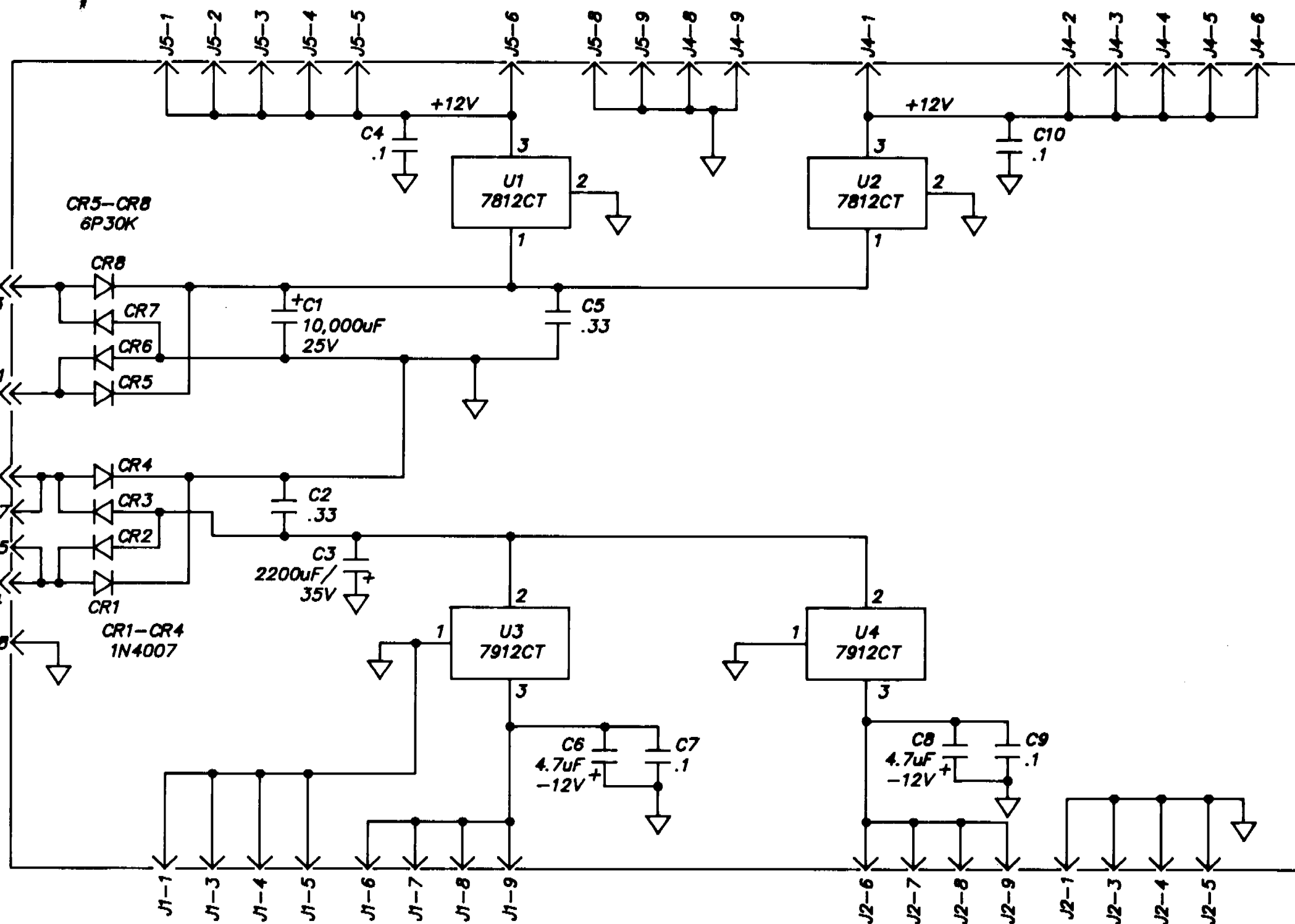
ITS CORPORATION
TITLE I/C - 20 WATT H.B.
WAF U/C AMPLIFIER TRAY
(1174-1100)

CHK DWS 8/30/93
REL DWS 8/30/93
1174-8100 3
SHEET 1 OF 2

TYPICAL AC SOURCE
WIRING SHOWN FOR
REFERENCE ONLY



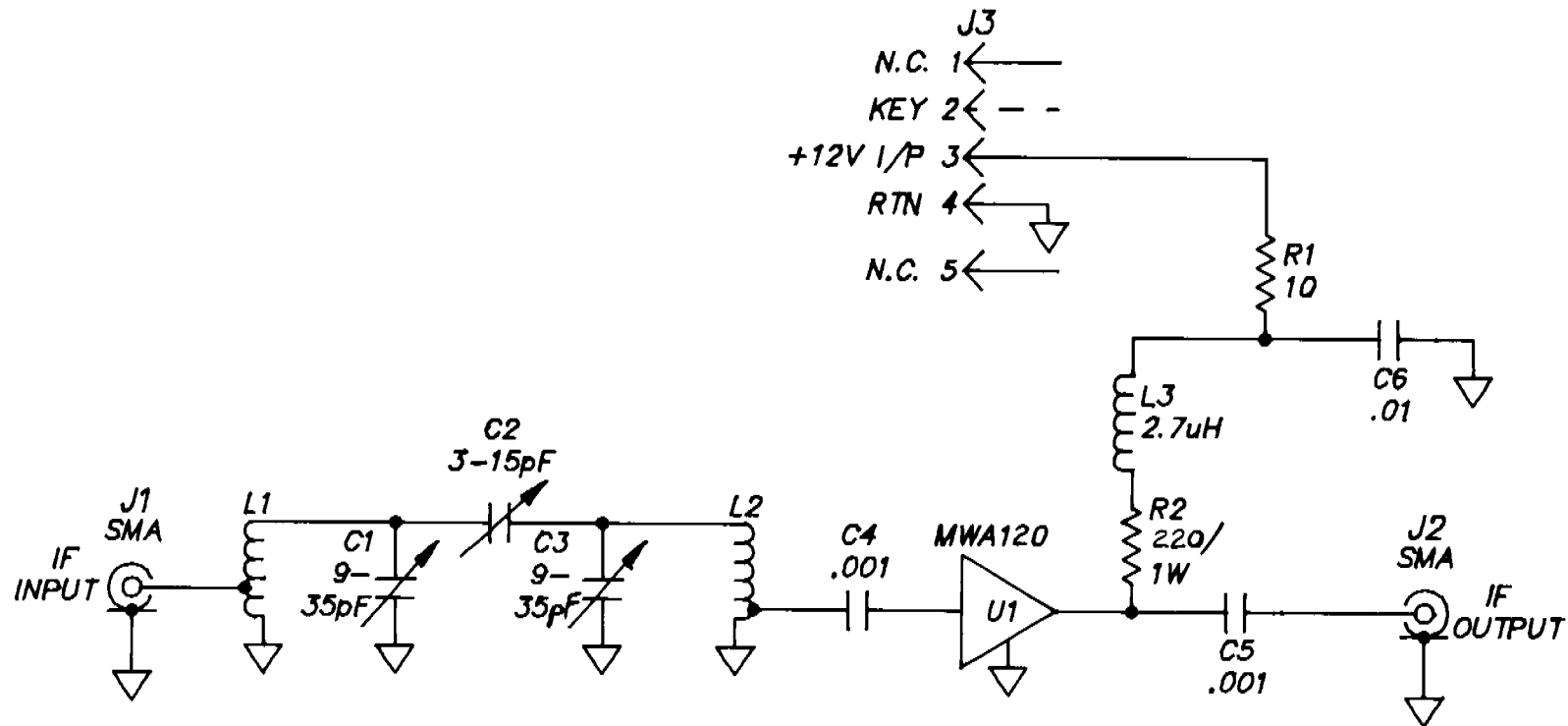
KEYS: J1-2
J2-2
J3-2
J4-7
J5-7



REVISIONS				
C1	WAS	4700uF		
1	5	8/14/83	RZ	
C1	WAS	35V		
2	184	9/6/84	BR	
SCHEM. REDRAWN				
3	916	10/21/86	TM	

ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
				SCHEMATIC - ±12V P.S. BD. (1001-1009)			
MATERIAL				DWN	LP	8/11/82	DWG. NO.
FINISH				CHK	RZ	9/30/82	1001-3009
				REL	RZ	12/21/82	3
				SCALE----		SHEET 1 OF 1	

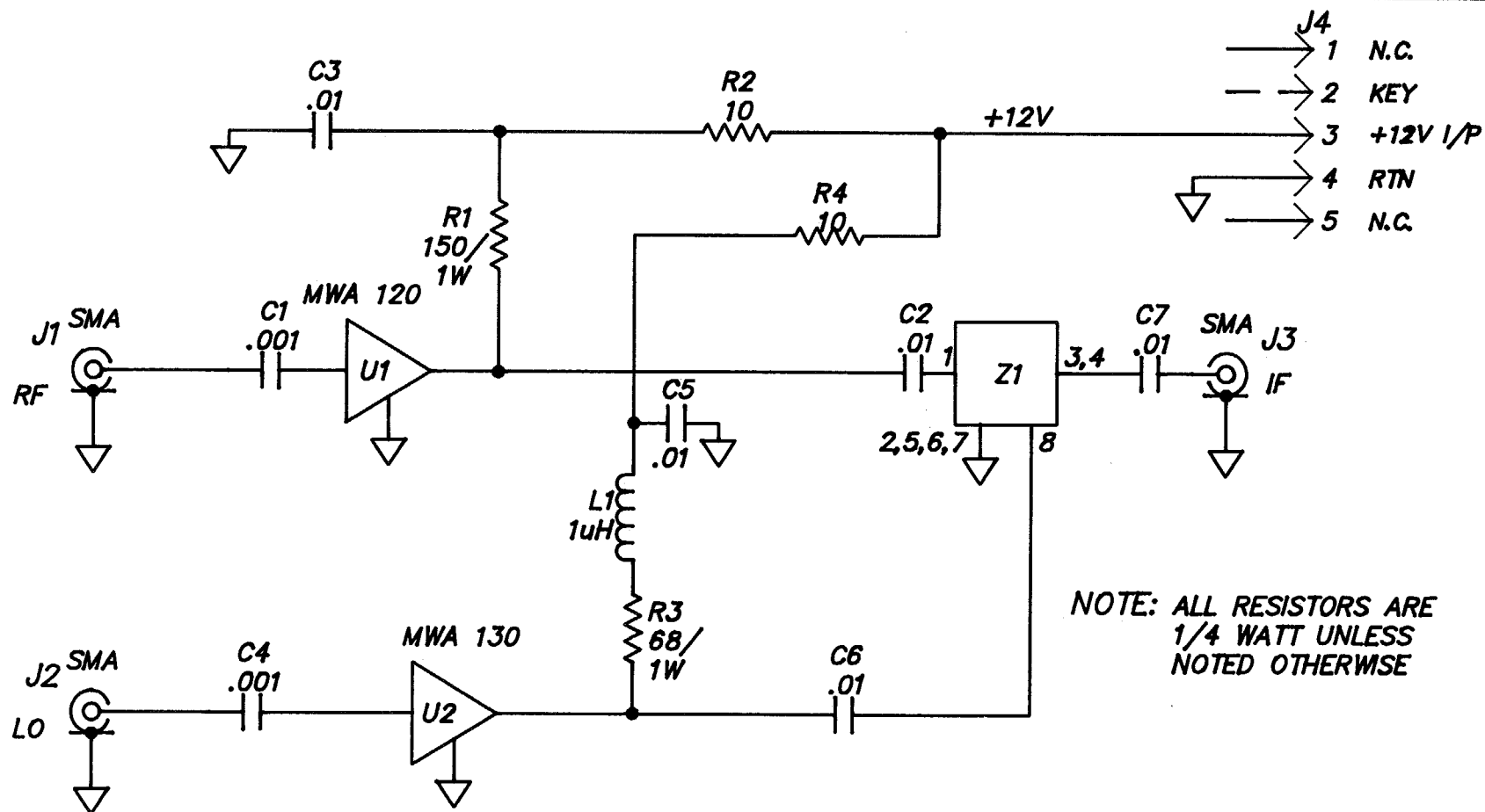
DO NOT REWIRE



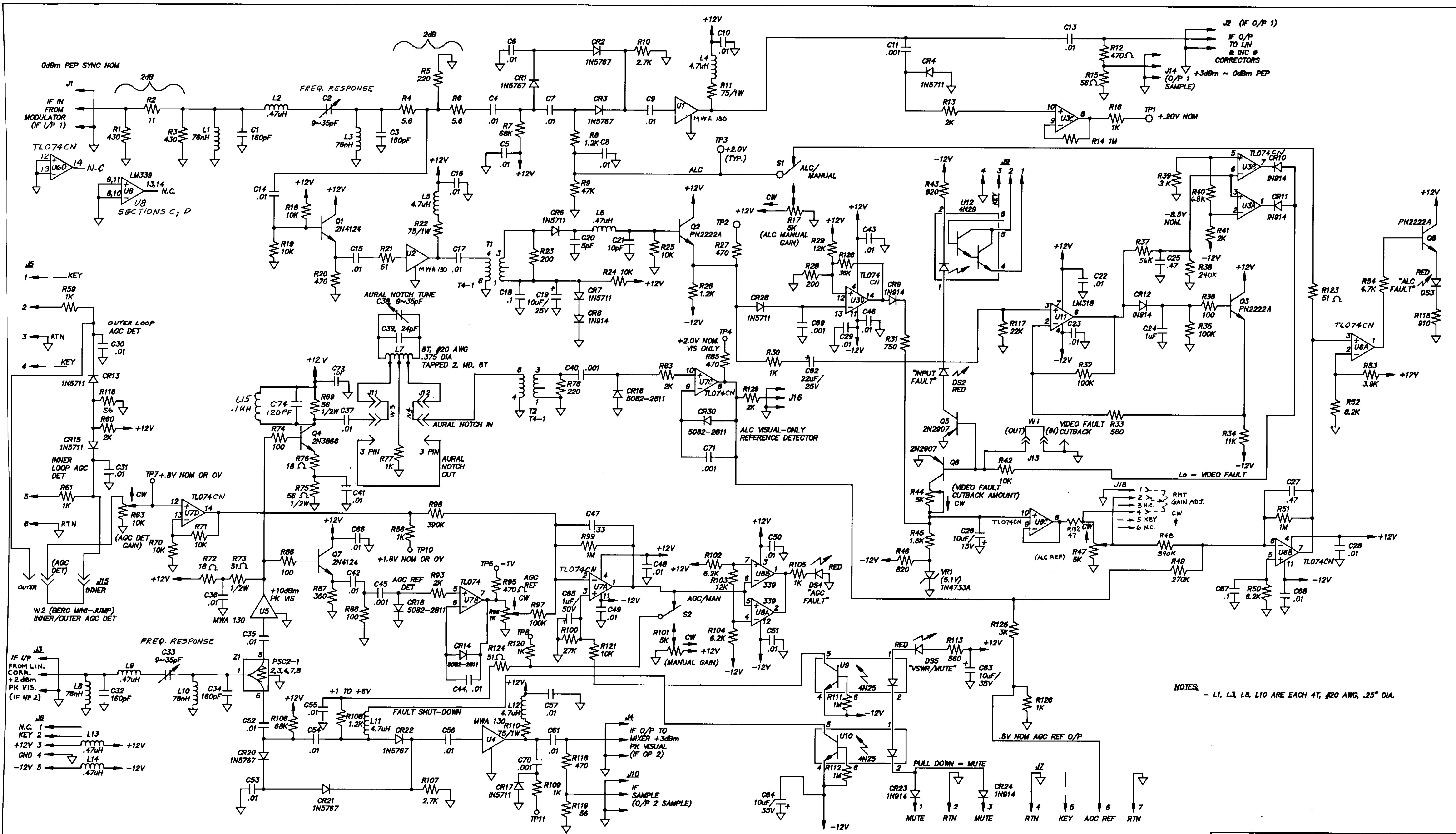
C2 WAS 3-15pF C3 WAS
9-35V U1 WAS MWA120
R2 WAS 220/1W
J1 2982 2-19-91 JEO
REVISED & REDRAWN
ON CAD. C2 WAS
2-8pF. CHG SMA'S
JEO
0 23211/17/89 JEO
REV ECN DATE APV

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)			
				DWN D.D. 1/22/83 DWG. NO. 1005-3205 REV 1			
MATERIAL -----				CHK RWZ 1/25/83			
FINISH -----				REL JCM 11/17/89 A SCALE ---- SHEET 1 OF 1			

DO NOT REUSE



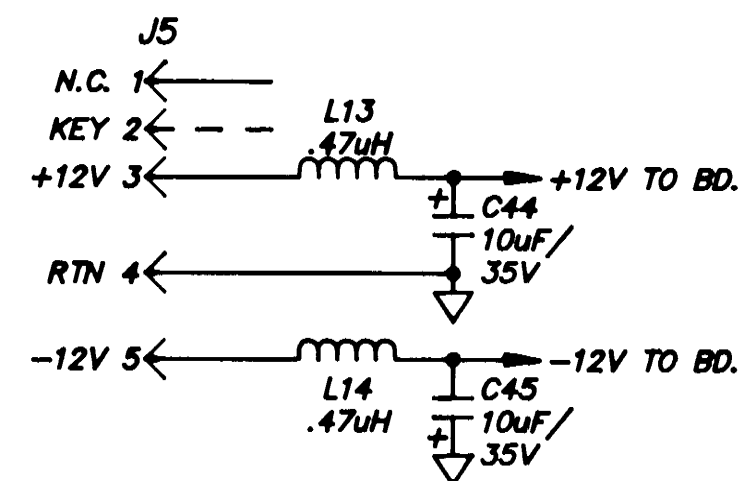
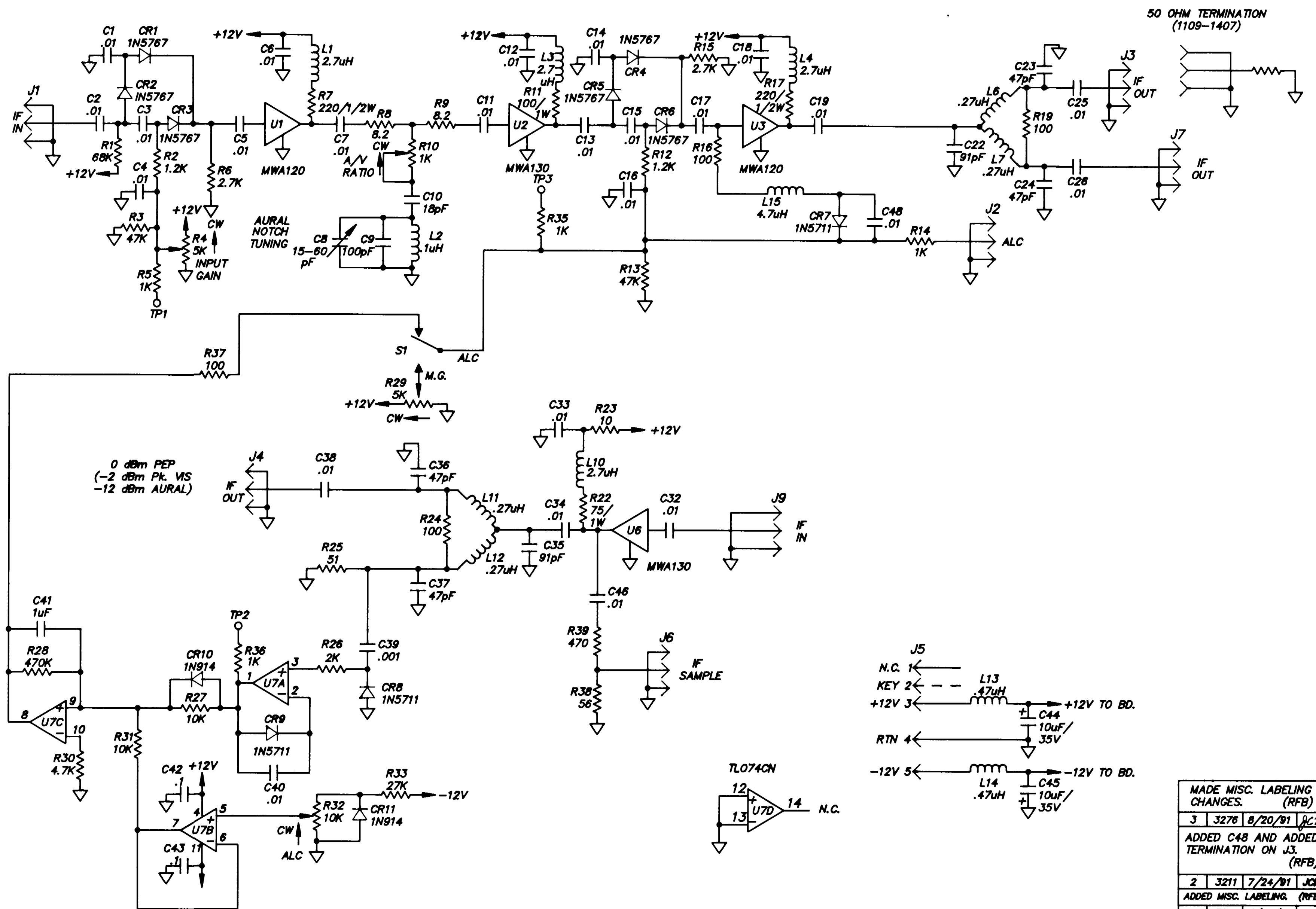
				ITS CORPORATION				REV	ECN	DATE	APV		
U2 WAS MWA 330. L1 WAS .1uH. (RFB) 2 3211 7/24/91 JCA ADDED LABELING TO J4, R1 WAS 110/1W, U1 WAS MWA130. (RFB) 1 2982 2/19/91 JCM U2 WAS MWA 130. JEO 0 1672 2/14/89 RE REV ECN DATE APV				THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE SCHEMATIC - VHF MIXER/AMPLIFIER BD. (1035-1901)					
												MATERIAL	
				FINISH				DWN	JEO	3/29/88	DWG. NO. 1035-3901		REV
								CHK	RE	4/21/88			2
				REL	RE	4/21/88	A	SCALE----	SHEET 1 OF 1				



NOTES: - L1, L3, L8, L10 ARE EACH 4T, #20 AWG, .25" DIA.

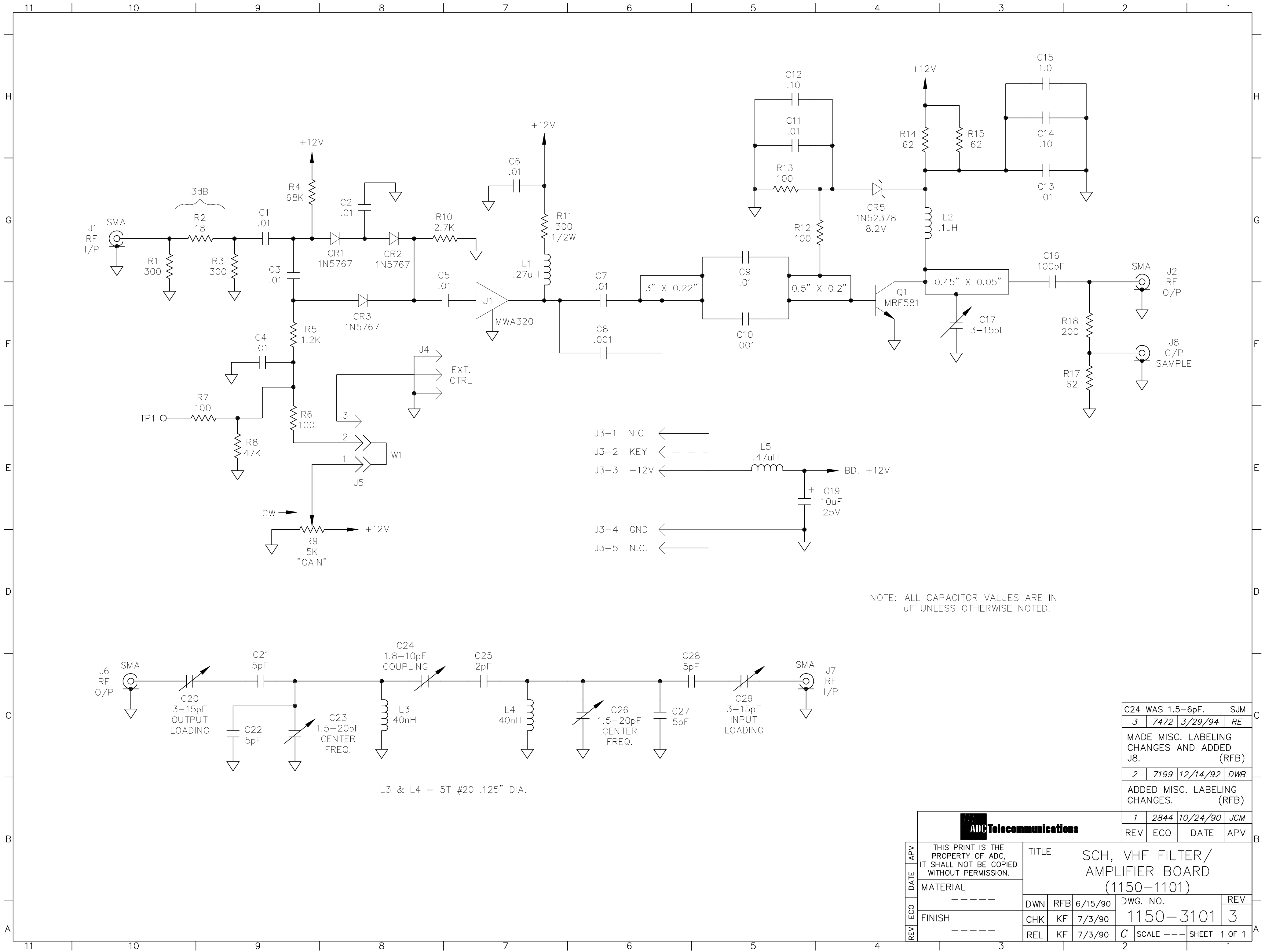
ITS CORPORATION				REV	ECN	DATE	APV
TITLE				SCHEMATIC - ALC/AGC BOARD (1067-1116)			
MATERIAL				DWN JED 6/3/88 DWG. NO. 1067-3116 3			
FINISH				CHK RE 6/3/88 REL JLM 2/17/89 D SCALE:-- SHEET 1 OF 1			

DO NOT REVISE

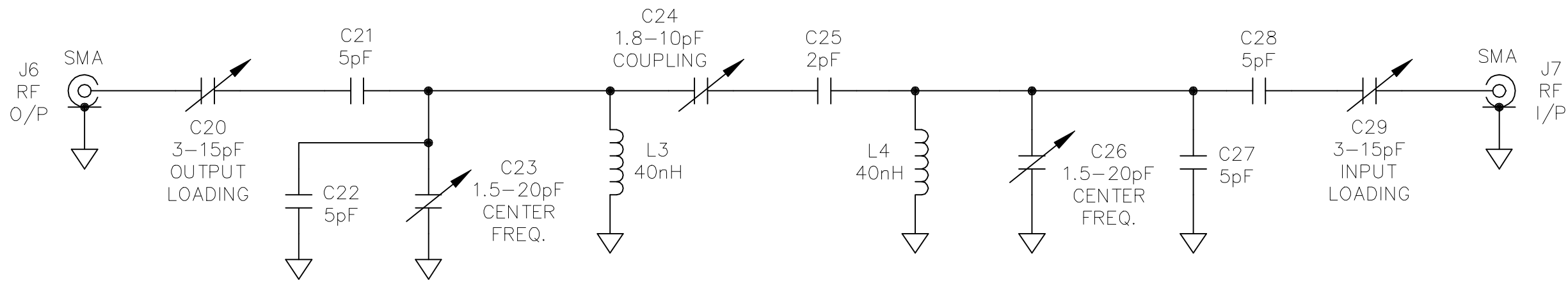


MADE MISC. LABELING CHANGES. (RFB)				
3	3276	8/20/91	JCM	
ADDED C48 AND ADDED TERMINATION ON J3. (RFB)				
2	3211	7/24/91	JCM	
ADDED MISC. LABELING. (RFB)				
1	3091	5/23/91	JCM	
REV	ECN	DATE	APV	

ITS CORPORATION				
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				
MATERIAL		TITLE		
FINISH		SCHEMATIC - IF ALC, 45.75 MHz (1109-1402)		
DWN	RFB	3/4/91	DWG. NO.	REV
CHK	JMW	3/13/91	1109-3402	3
REL	JMW	3/13/91	C	SCALE --- SHEET 1 OF 1

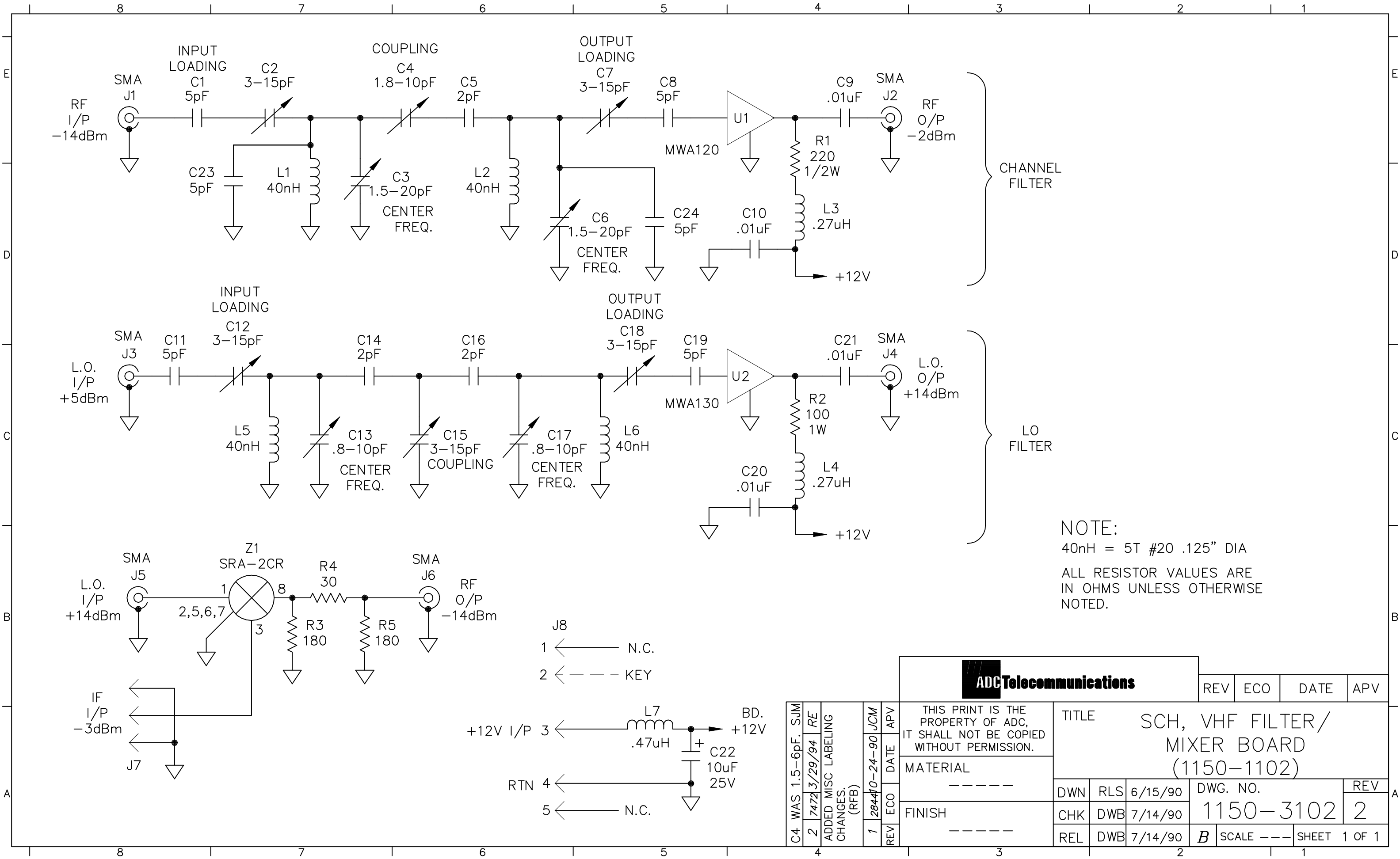


NOTE: ALL CAPACITOR VALUES ARE IN
uF UNLESS OTHERWISE NOTED.



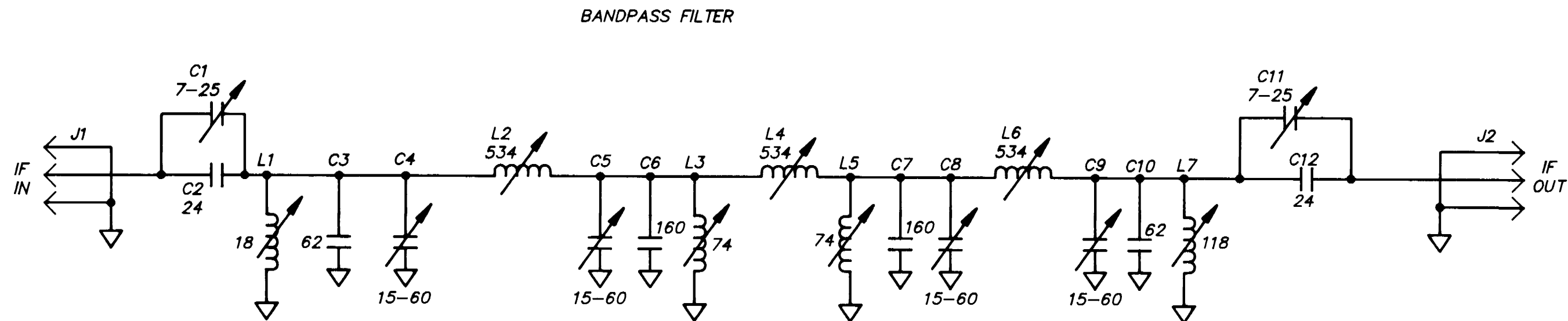
L3 & L4 = 5T #20 .125" DIA.

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

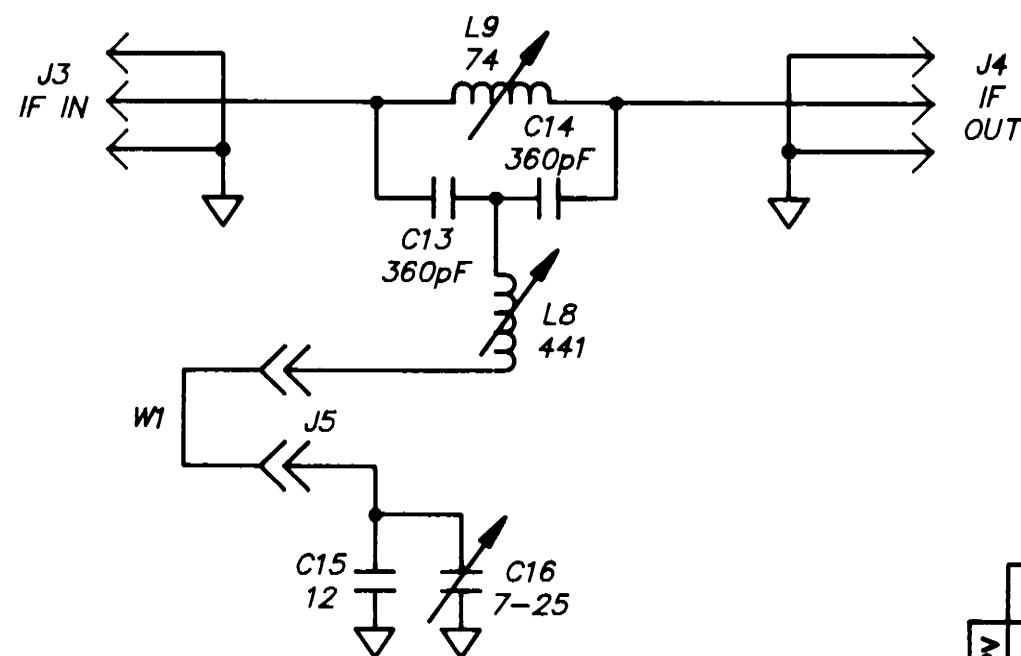


NOTE:
40nH = 5T #20 .125" DIA
ALL RESISTOR VALUES ARE
IN OHMS UNLESS OTHERWISE
NOTED.

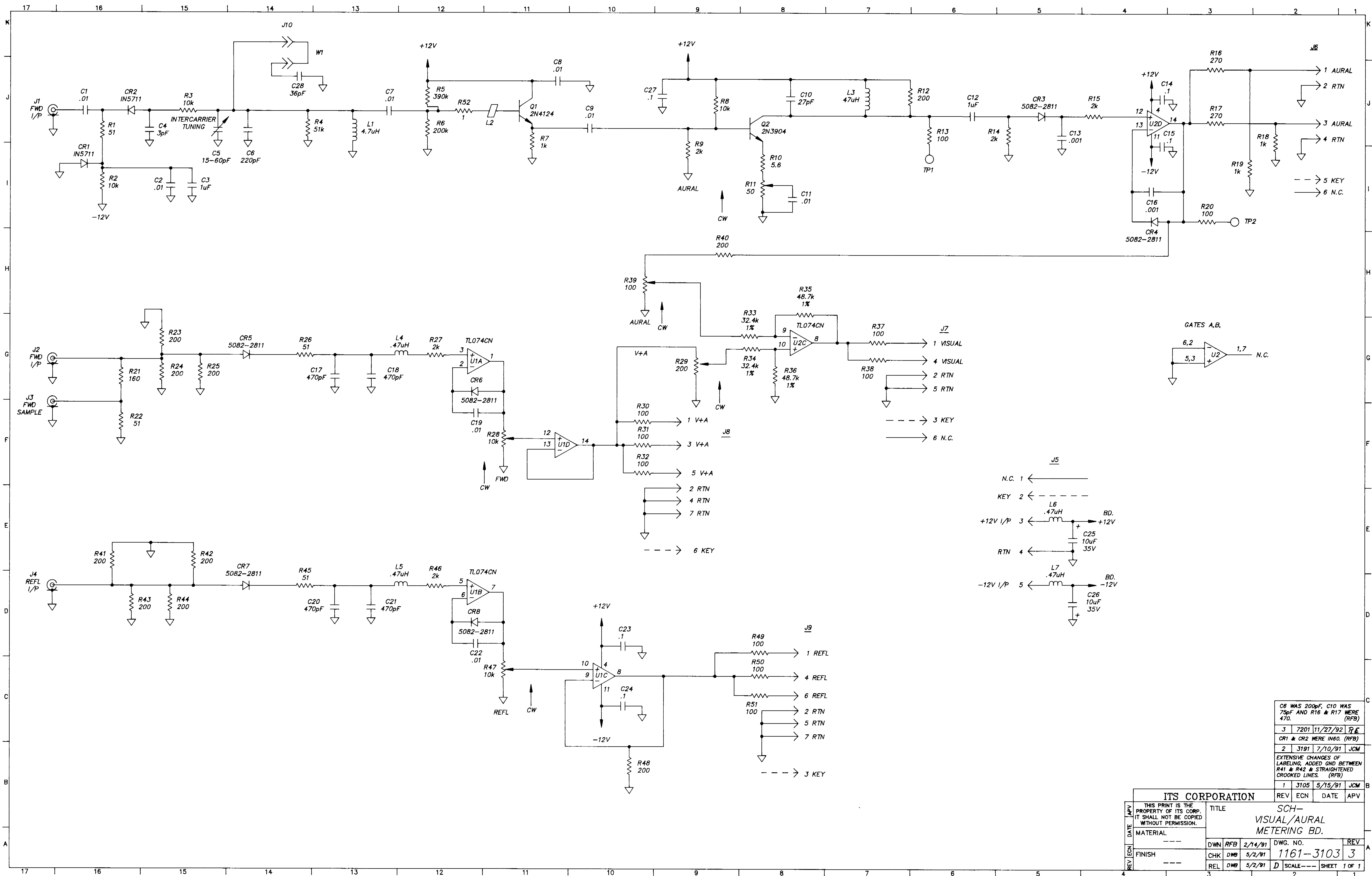
ADC Telecommunications					REV	ECO	DATE	APV
THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION.	TITLE SCH, VHF FILTER/ MIXER BOARD (1150-1102)							
MATERIAL -----	DWN	RLS	6/15/90	DWG. NO.				REV
FINISH -----	CHK	DWB	7/14/90	1150-3102				2
	REL	DWB	7/14/90	B	SCALE ---		SHEET 1 OF 1	



ALL CAPACITANCES IN pF
ALL INDUCTANCES IN nH
DELAY EQUALIZER

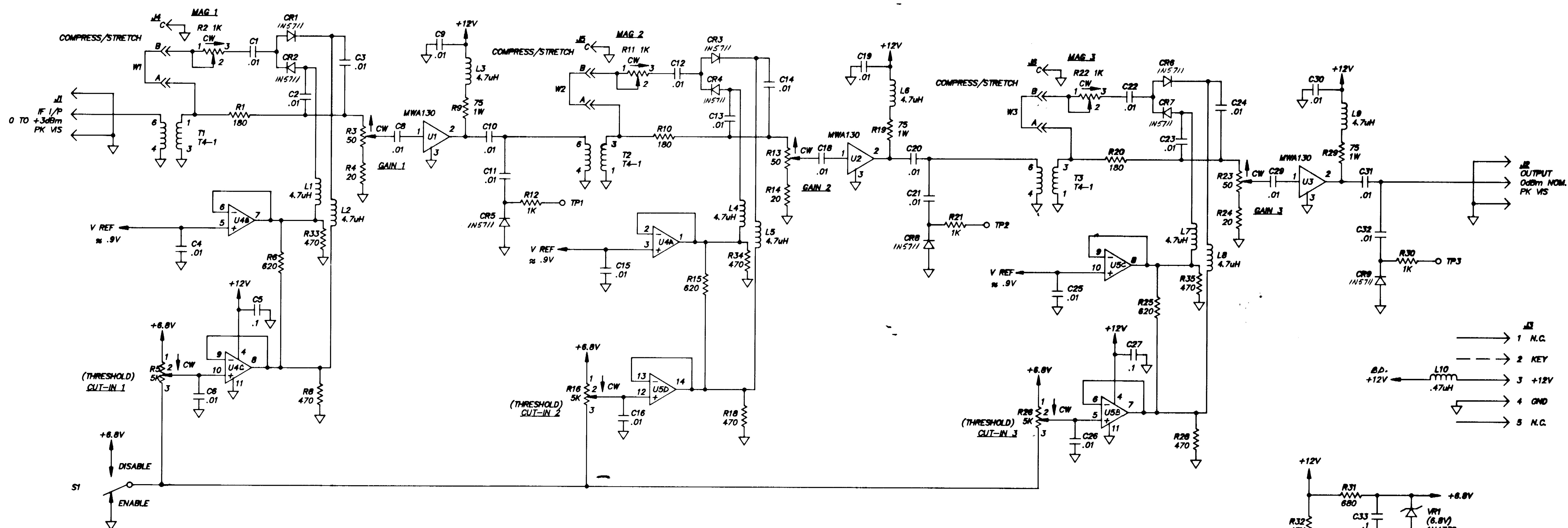


ITS CORPORATION					REV	ECN	DATE	APV
APV	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE 45.75 MHz IF FILTER					
DATE	MATERIAL ----		DWN RFB 2/22/91 DWG. NO. 1161-3007 REV 0					
ECN	FINISH ----		CHK DWB 5-2-91					
REV			REL DWB 5-2-91 B SCALE ---- SHEET 1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

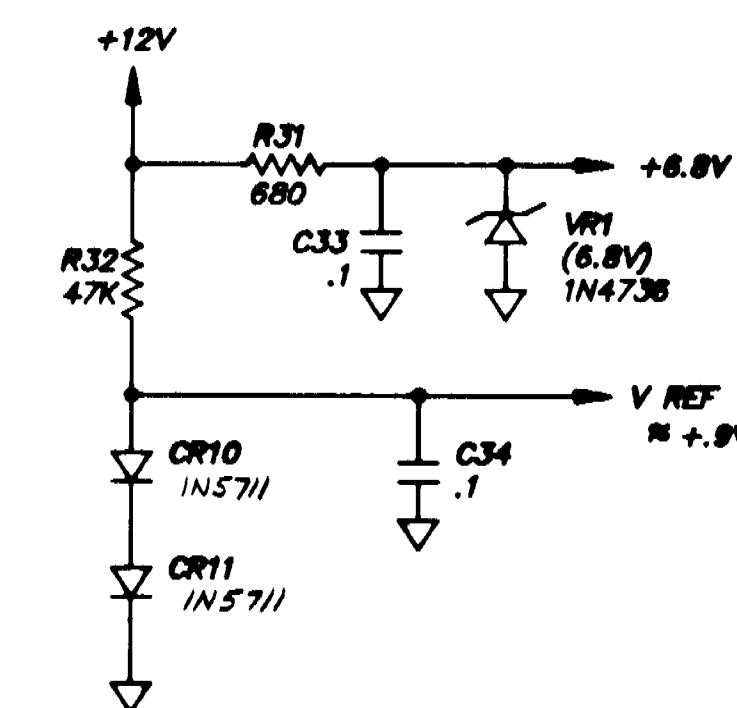
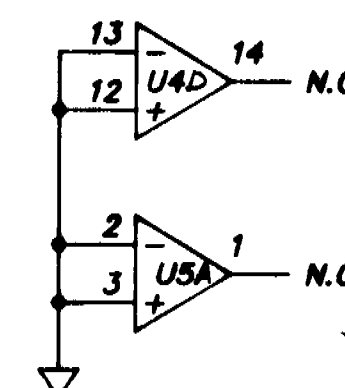
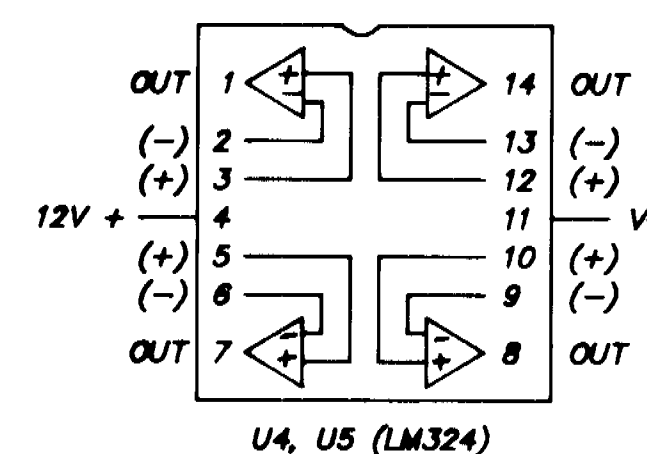


C6 WAS 200pF, C10 WAS 75pF AND R16 & R17 WERE 470. (RFB)
3 7201 11/27/92 RFB
CR1 & CR2 WERE IN60. (RFB)
2 3191 7/10/91 JCM
EXTENSIVE CHANGES OF LABELING, ADDED GND BETWEEN R41 & R42 & STRAIGHTENED CROOKED LINES. (RFB)
1 3105 5/15/91 JCM

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

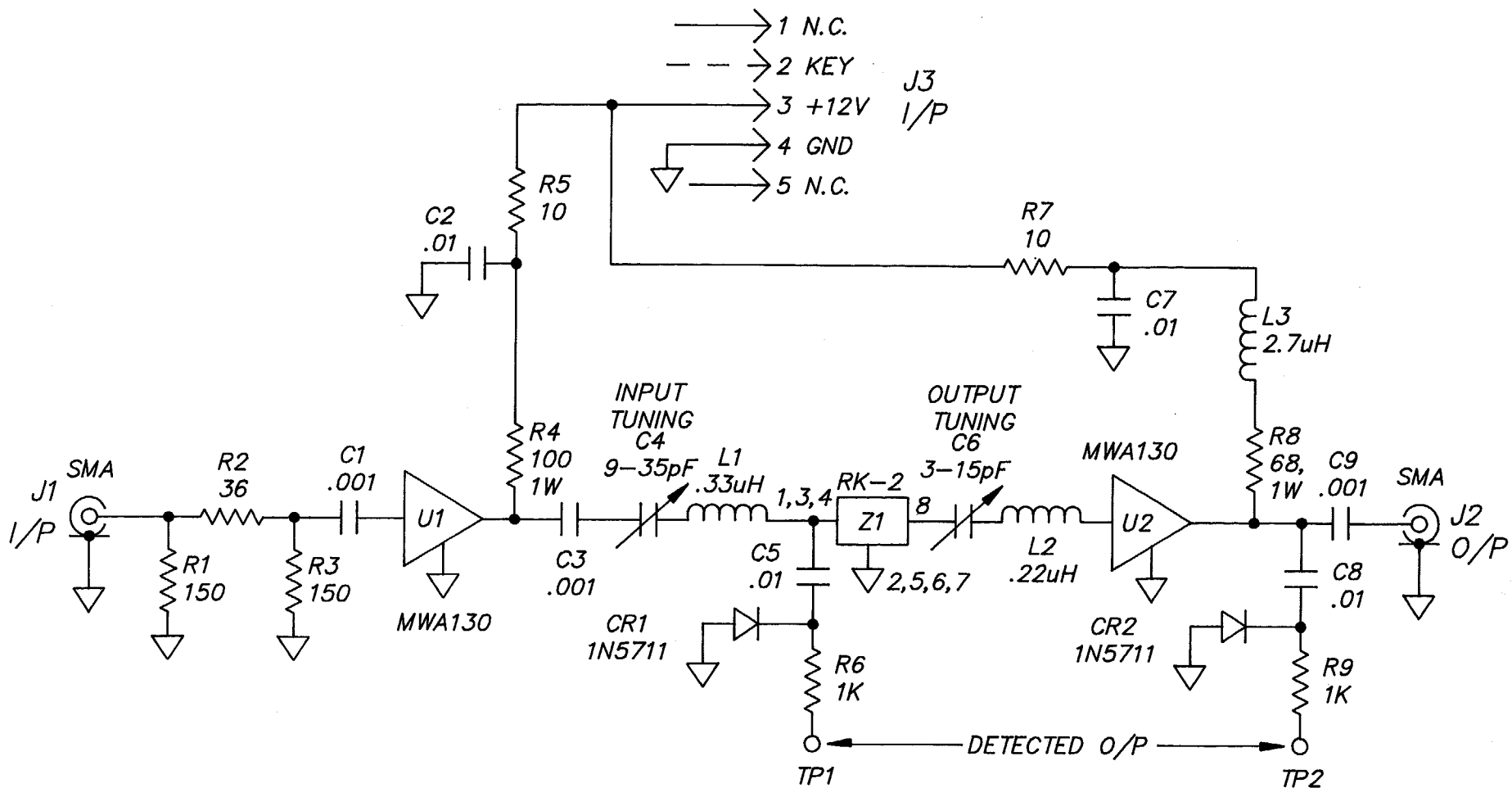


NOTE: ALL RESISTORS ARE 1/4W, 5% UNLESS NOTED OTHERWISE.

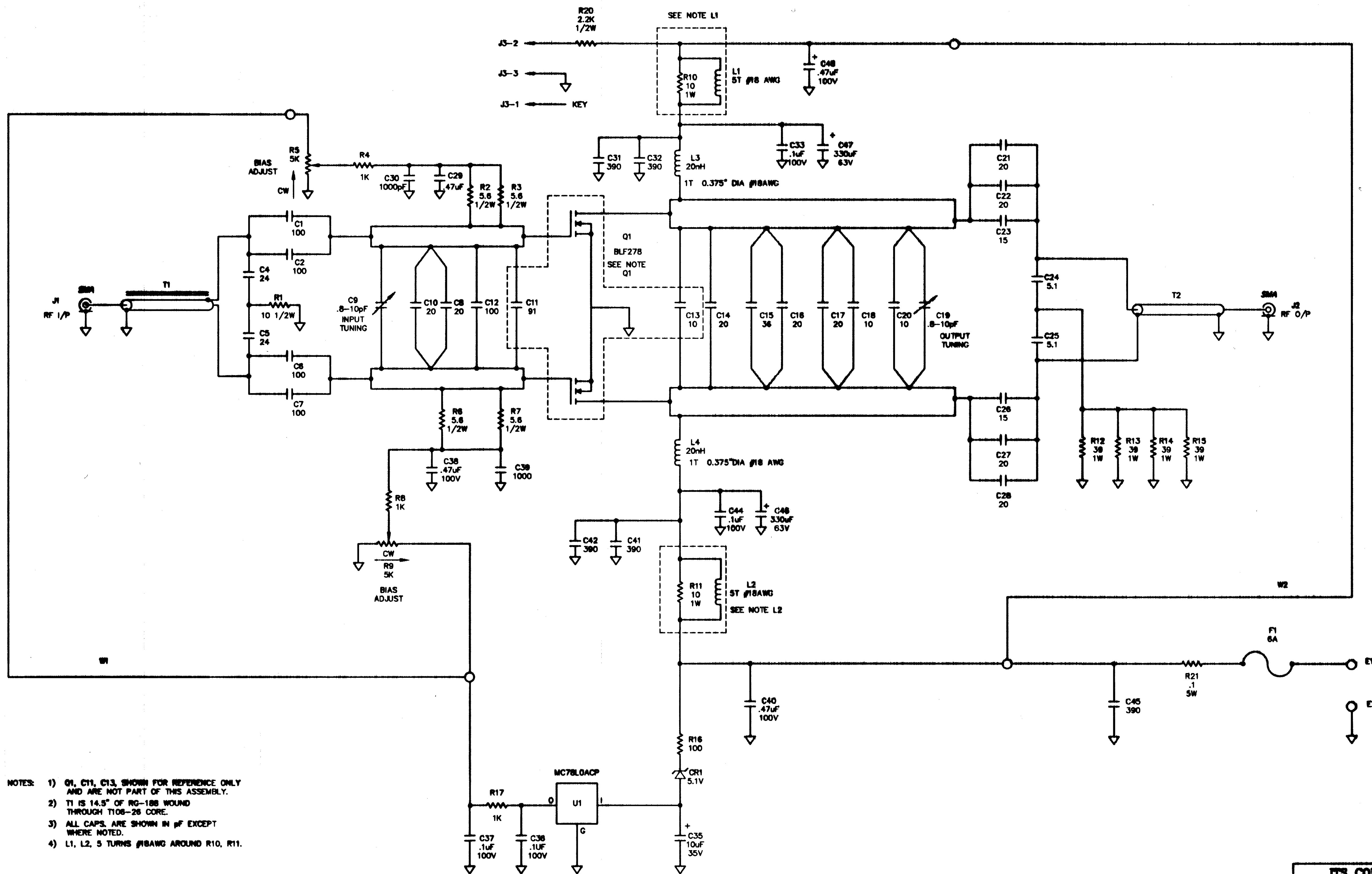


REVISIONS

ITS CORPORATION		REV	EON	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE			
MATERIAL		SCHEMATIC - 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.

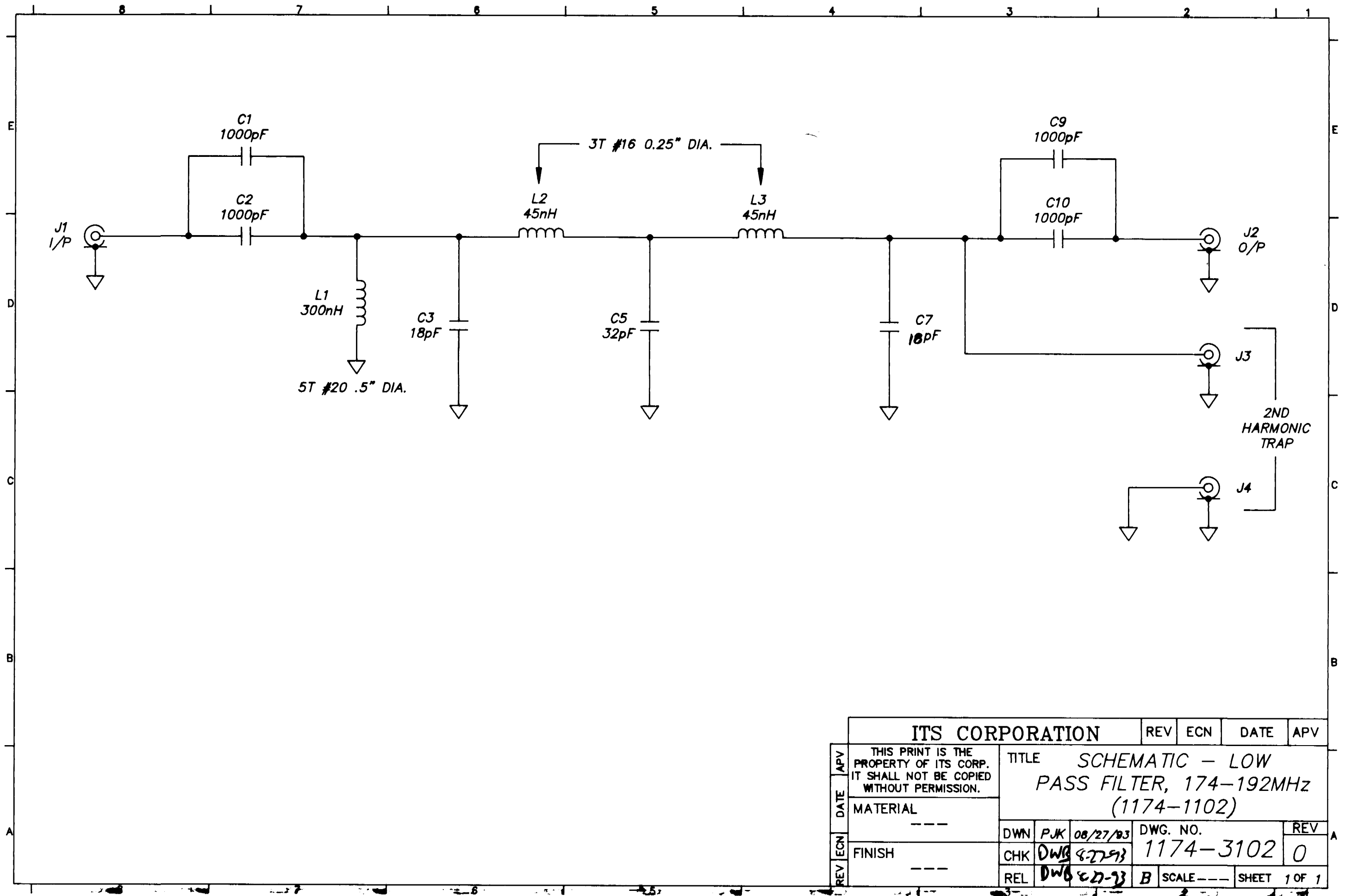
DELETED R10 - 6.8K RES.
DELETED R19 - 3K THER-
MISTOR (P.A.O.)

2 10/79 6/8/97 JEC

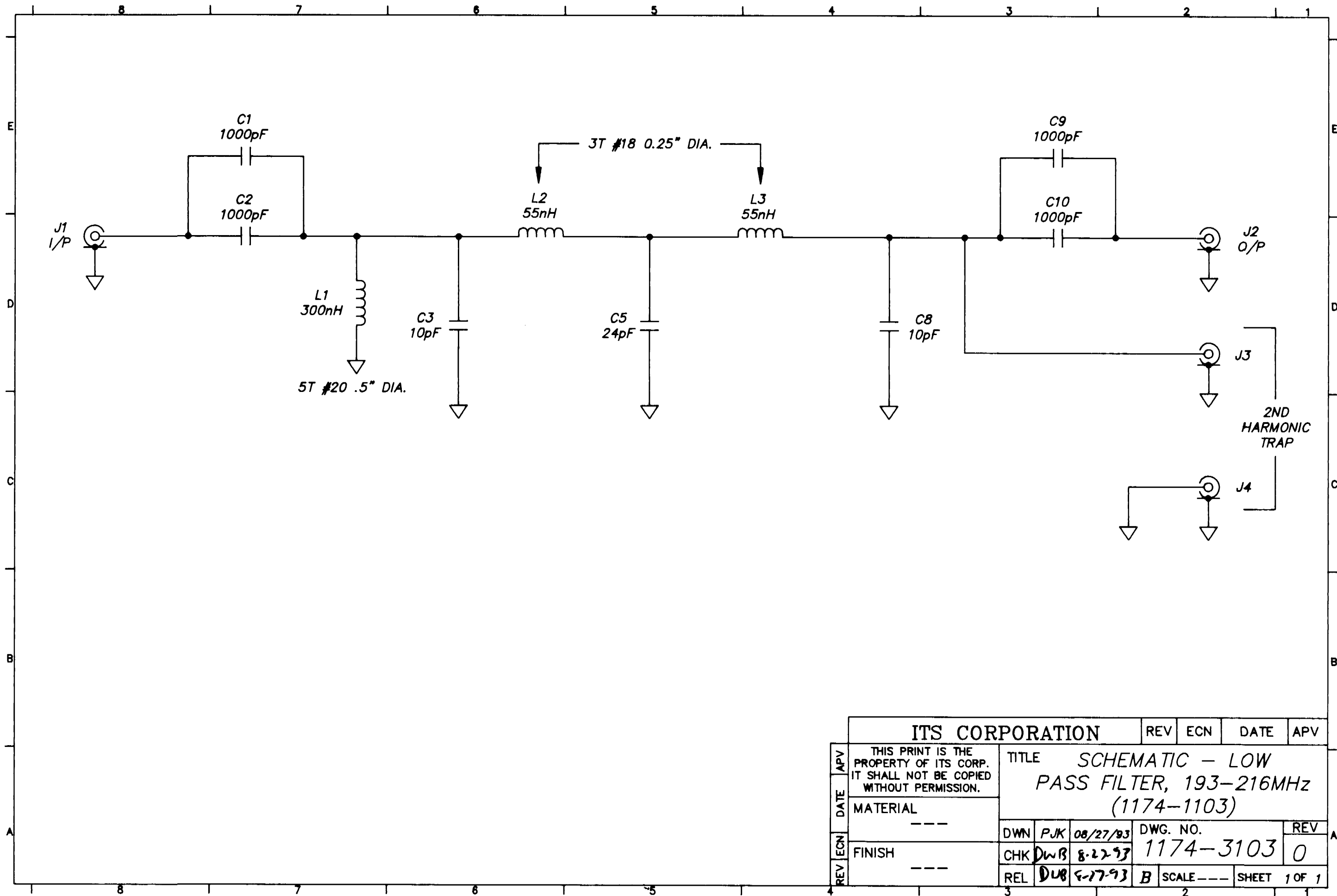
C18 WAS C19. C30 WAS CON-
NECTED AT BOTTOM OF R10.

1 7/79 4/5/94 RE

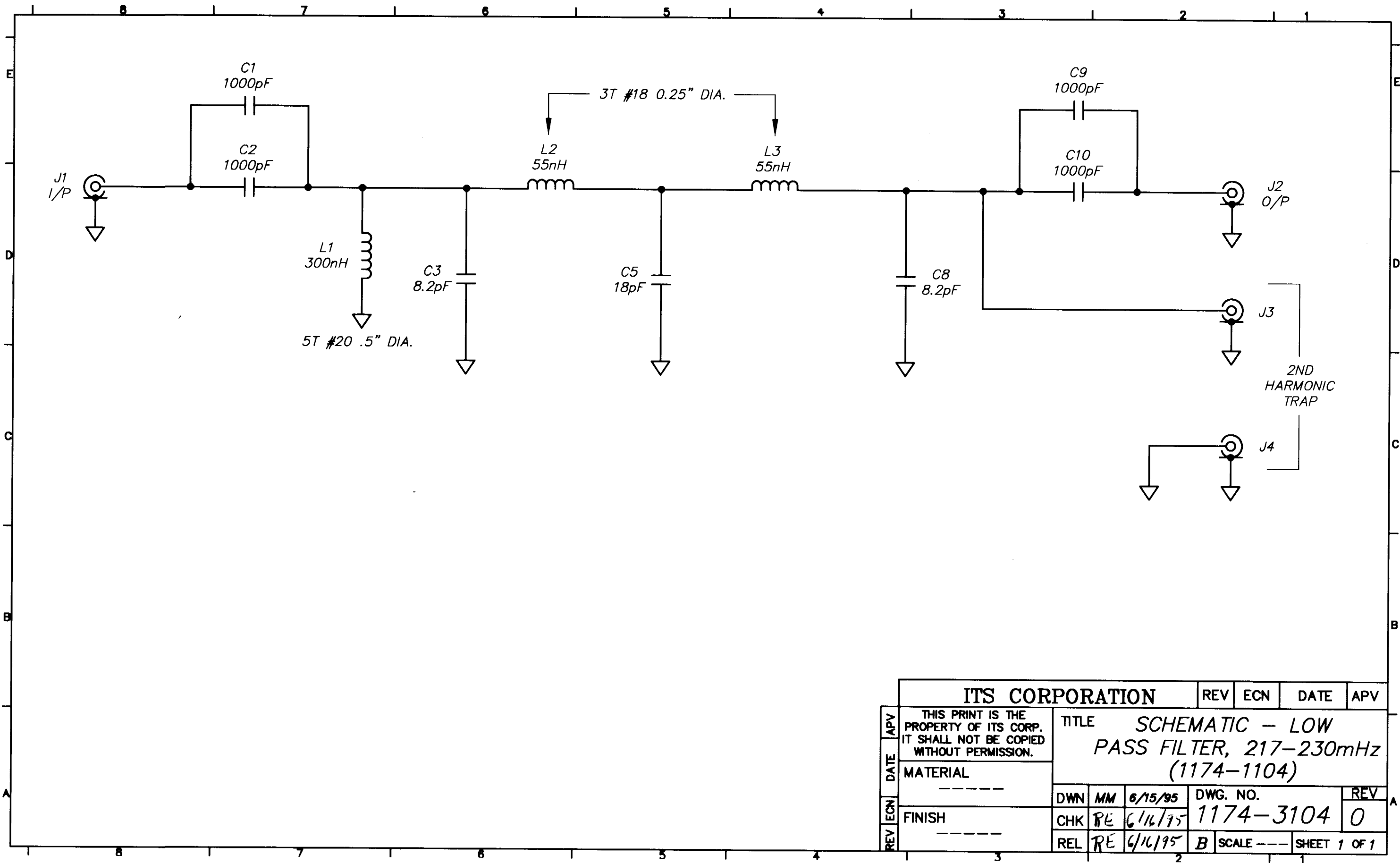
ITS CORPORATION			
REV	ECN	DATE	APV
1	7/79	4/5/94	RE
TITLE			
SCHEMATIC, HB AMPLIFIER BD. (1174-1101)			
MATERIAL		CHK	DATE
FINISH		CHK	DATE
REL		CHK	DATE
1174-3101		2	2
1174-3101		2	2



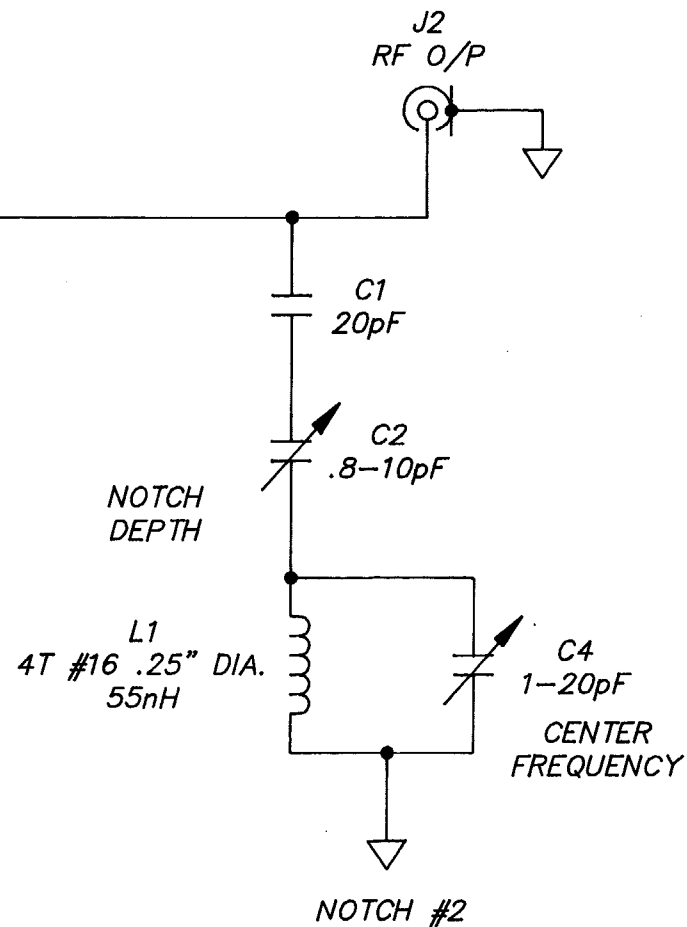
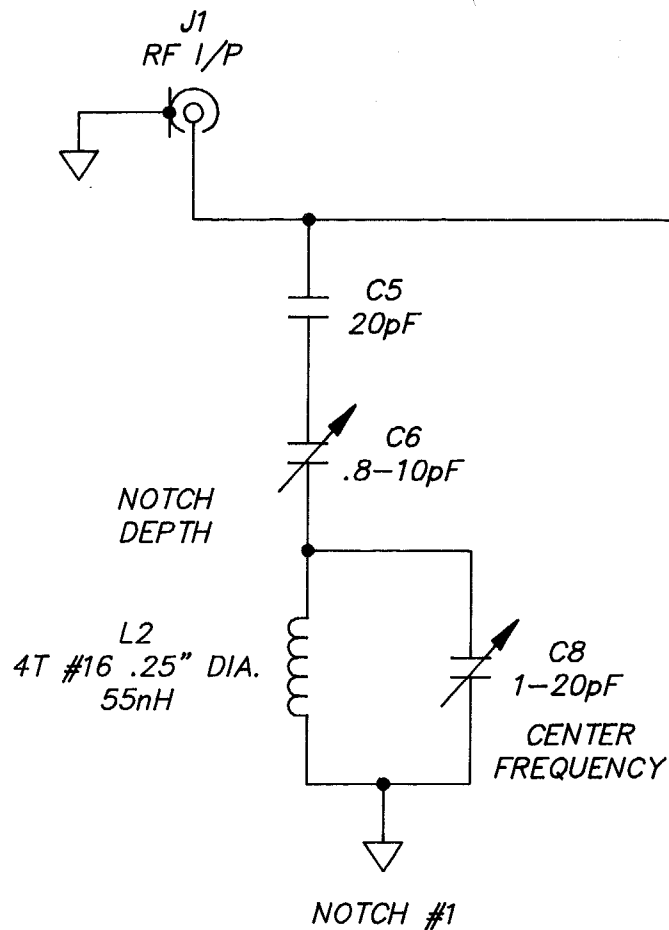
ITS CORPORATION				REV	ECN	DATE	APV	
REV	ECN <td rowspan="3">DATE<td rowspan="3">APV</td><td colspan="4">THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.</td></td>	DATE <td rowspan="3">APV</td> <td colspan="4">THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.</td>	APV	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				
				TITLE SCHEMATIC - LOW PASS FILTER, 174-192MHz (1174-1102)				
				MATERIAL ----				
REV	ECN <td rowspan="3">DATE<td rowspan="3">APV</td><td>DWN</td><td>PJK</td><td>08/27/03</td><td>DWG. NO.</td><td>REV</td></td>	DATE <td rowspan="3">APV</td> <td>DWN</td> <td>PJK</td> <td>08/27/03</td> <td>DWG. NO.</td> <td>REV</td>	APV	DWN	PJK	08/27/03	DWG. NO.	REV
				CHK	DWB	8-27-03	1174-3102	0
				REL	DWB	8-27-03	B	SCALE----
FINISH ----								



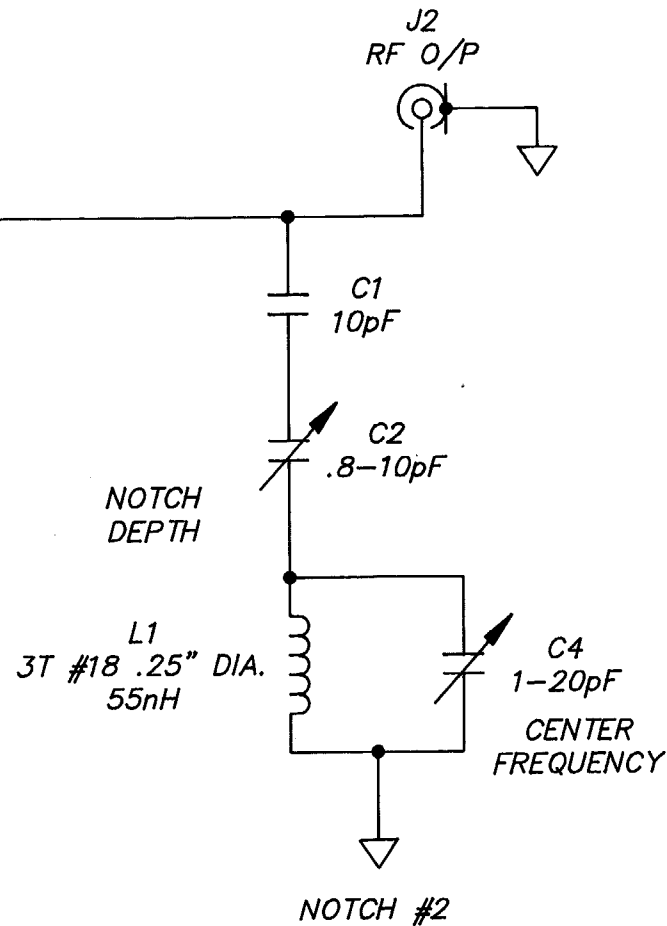
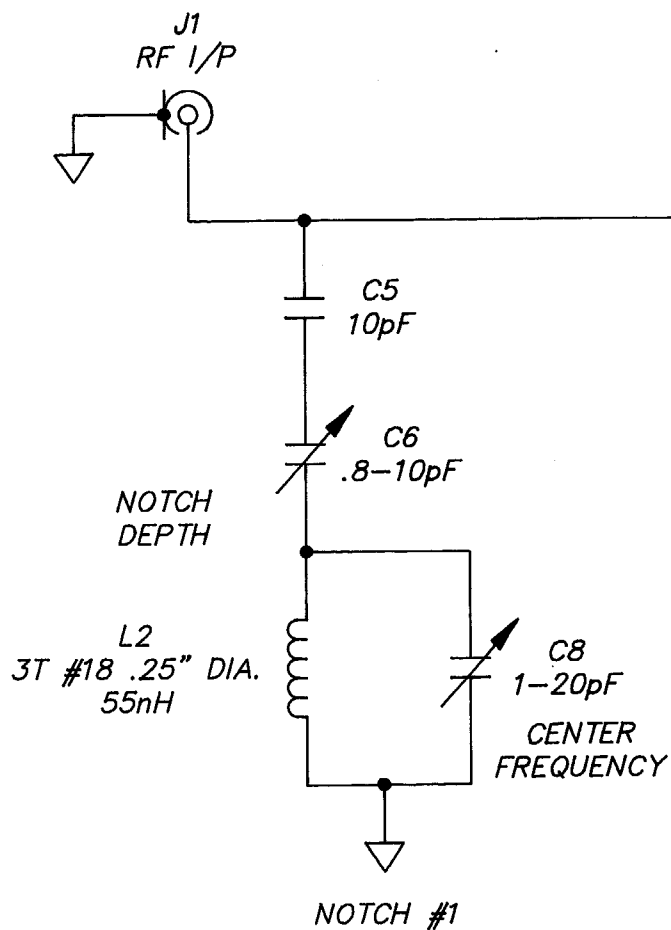
ITS CORPORATION					REV	ECN	DATE	APV		
APV	DATE	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.	TITLE SCHEMATIC - LOW PASS FILTER, 193-216MHz (1174-1103)							
			MATERIAL		DWN		PJK	08/27/93	DWG. NO.	REV
			---		CHK		DWB	8-22-93	1174-3103	0
REV	ECN	FINISH	REL		DUB	8-27-93	B	SCALE---	SHEET	1 OF 1



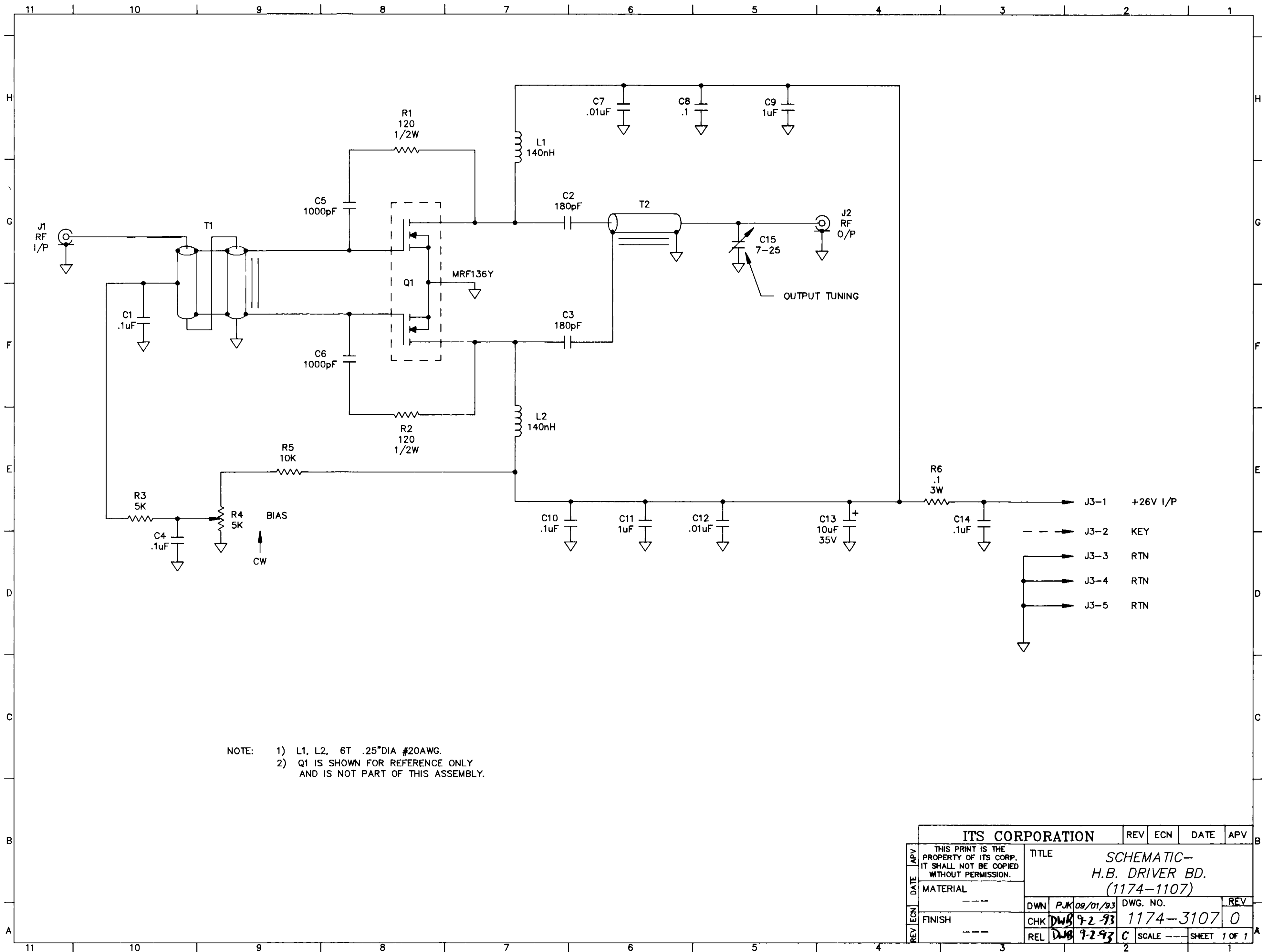
ITS CORPORATION				REV	ECN	DATE	APV
REV	ECN	DATE	APV	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.			
				TITLE SCHEMATIC - LOW PASS FILTER, 217-230mHz (1174-1104)			
				MATERIAL			
				FINISH			
DWN	MM	6/15/95	DWG. NO.	REV			
CHK	RE	6/16/95	1174-3104	0			
REL	RE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



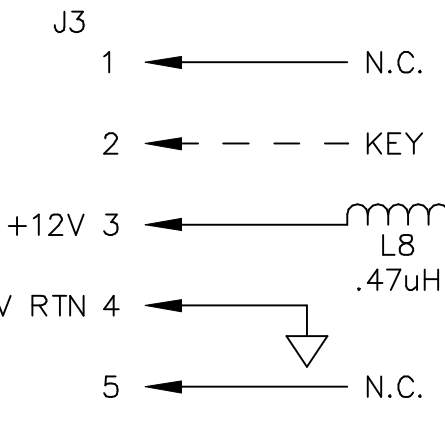
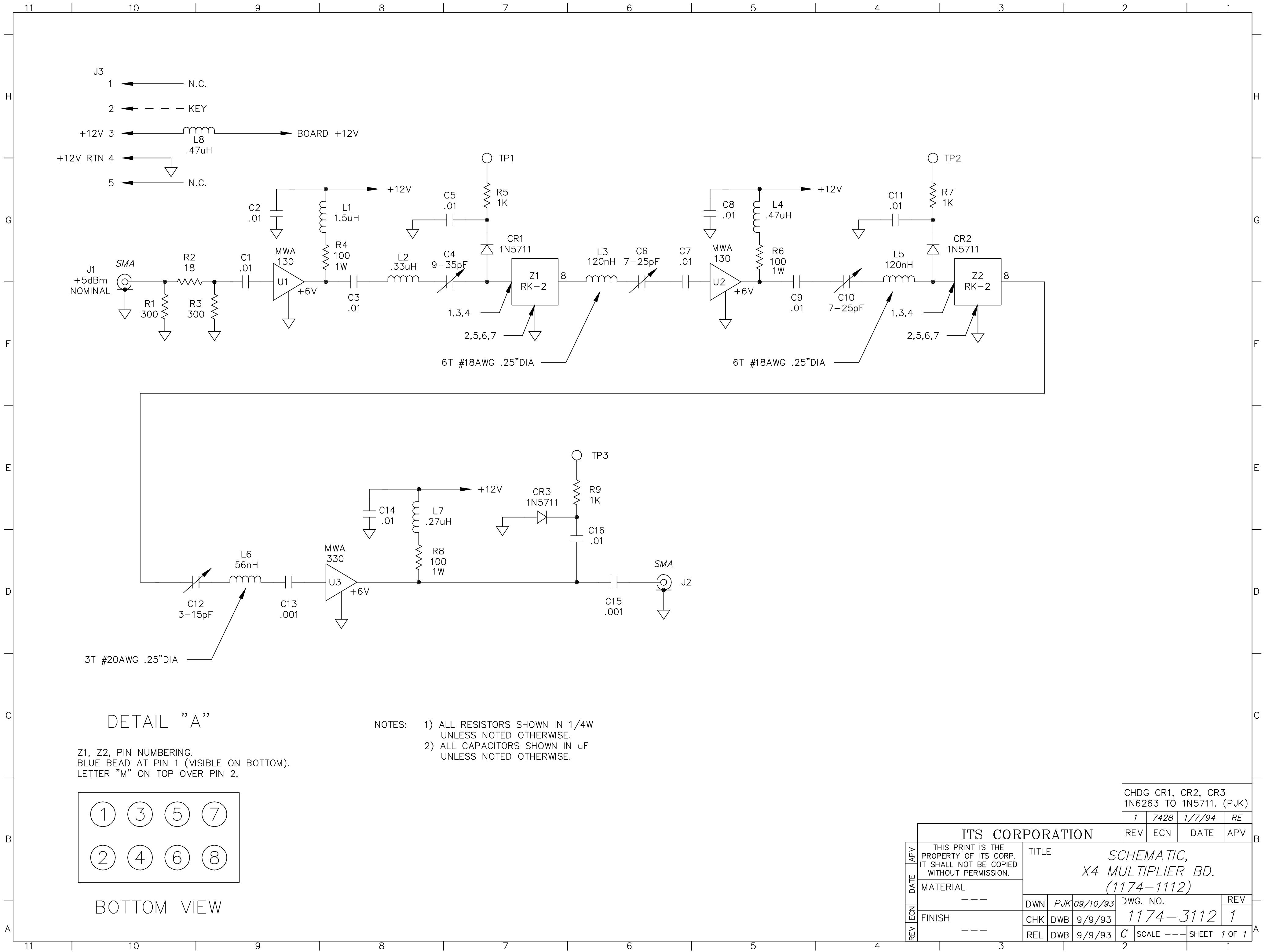
ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE SCHEMATIC - TRAP			
				FILTER BD. 174-216MHz (1174-1105)			
REV	ECN	DATE	APV	DWN	SJM	8/27/93	DWG. NO.
MATERIAL				CHK	DWB	8-27-93	1174-3105
FINISH				REL	DWB	8-27-93	0
				A	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)			
REV	ECN	DATE	APV	MATERIAL ---			REV
				FINISH ---			
DWN	SJM	8/26/93	DWG. NO.		1174-3106		
CHK	DWB	8-27-93	SCALE ---		SHEET 1 OF 1		
REL	DWB	8-27-93	A		SHEET 1 OF 1		

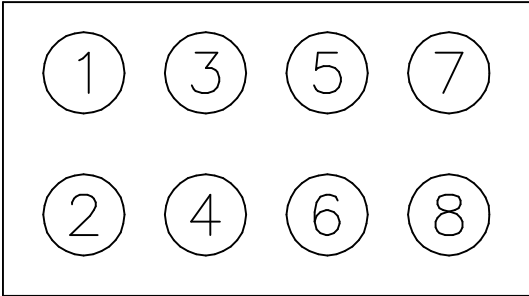


ITS CORPORATION				REV	ECN	DATE	APV
REV	DATE	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE			
	DATE	MATERIAL		SCHEMATIC- H.B. DRIVER BD. (1174-1107)			
	DATE	FINISH		DWN	PJK 09/01/93	DWG. NO.	REV
	DATE			CHK	DW 9-2-93	1174-3107	0
REL	DW 9-2-93	C	SCALE	----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

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

