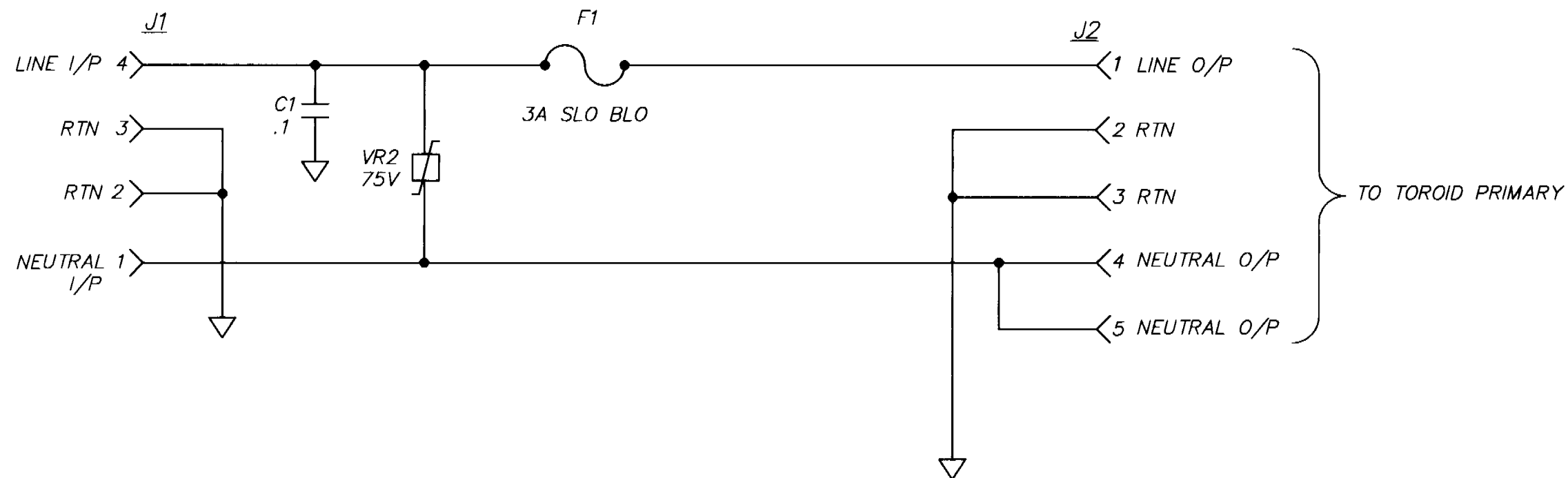
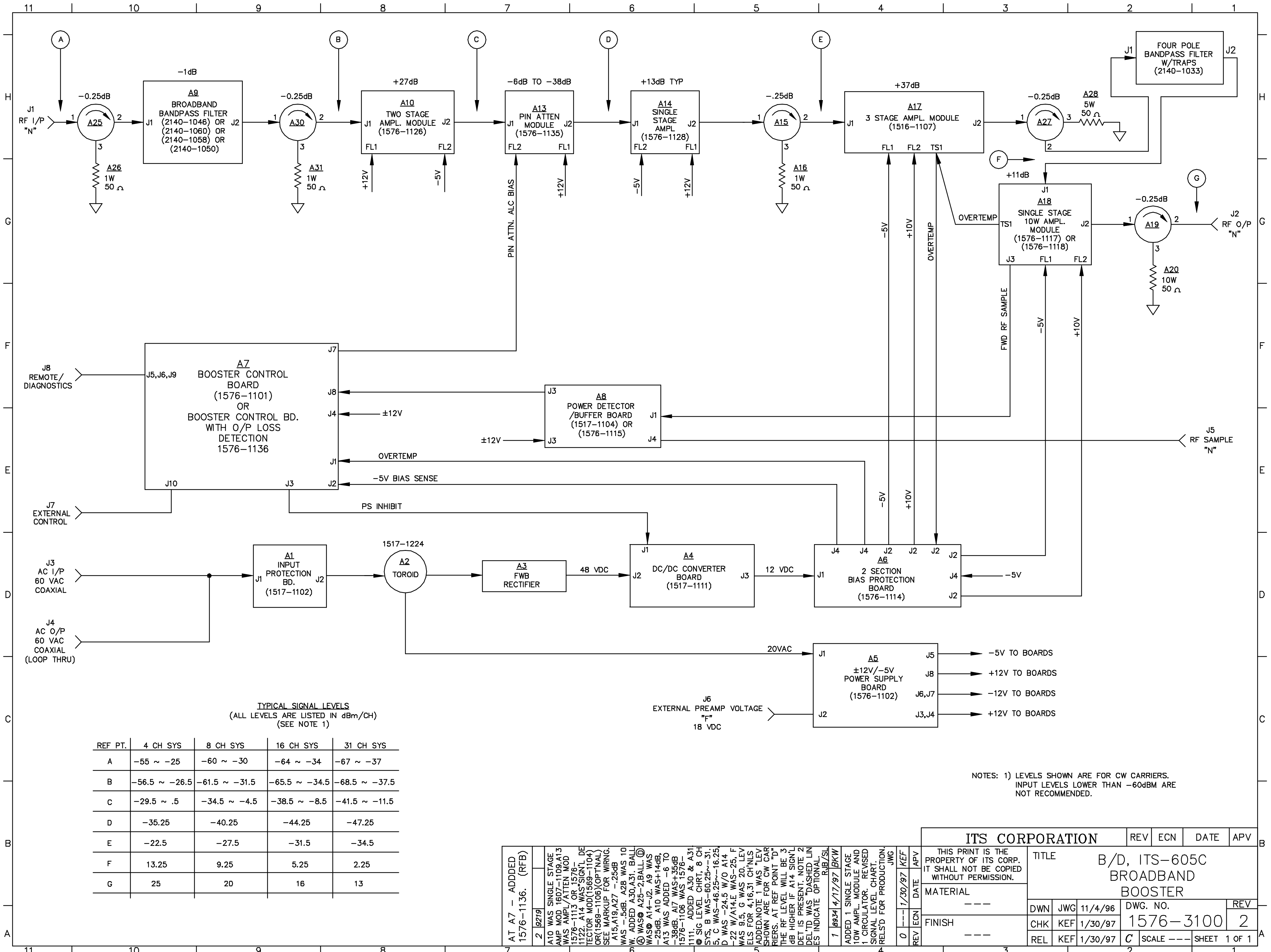




ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
				SCHEMATIC- INPUT PROTECTION BOARD (1517-1102)			
MATERIAL				DWN	CML	03/02/95	DWG. NO.
FINISH				CHK	CML	9/11/95	1517-3102
REL				CML	03/02/95	B	SCALE 1=1 SHEET 1 OF 1



TYPICAL SIGNAL LEVELS
(ALL LEVELS ARE LISTED IN dBm/CH)
(SEE NOTE 1)

REF PT.	4 CH SYS	8 CH SYS	16 CH SYS	31 CH SYS
A	-55 ~ -25	-60 ~ -30	-64 ~ -34	-67 ~ -37
B	-56.5 ~ -26.5	-61.5 ~ -31.5	-65.5 ~ -34.5	-68.5 ~ -37.5
C	-29.5 ~ .5	-34.5 ~ -4.5	-38.5 ~ -8.5	-41.5 ~ -11.5
D	-35.25	-40.25	-44.25	-47.25
E	-22.5	-27.5	-31.5	-34.5
F	13.25	9.25	5.25	2.25
G	25	20	16	13

NOTES: 1) LEVELS SHOWN ARE FOR CW CARRIERS.
INPUT LEVELS LOWER THAN -60dBm ARE
NOT RECOMMENDED.

AT A7 - ADDED 1576-1136. (RFB)	2	9/21/9	A10 WAS SINGLE STAGE AMP MOD 1607-1109.A13 WAS AMPL/ATTEN MOD 1576-1113 OR 1576- 1122. A14 WAS SIGN'L DE TECTOR MOD(1569-1104) OR(1569-1106)(OPTNL) SEE MARKUP FOR WIRNG. A15,A19,A27 -25dB WAS -5dB. A28 WAS 10 W. ADDED A30,A31. BALL Ⓢ WASⓈ A25-2,BALL Ⓢ WASⓈ A14-J2. A9 WAS -25dB. A10 WAS+14dB, A13 WAS ADDED -6 TO -38dB. A17 WAS+35dB 1576-1106 WAS 1576- 1111. ADDED A30 & A31. Ⓢ SIG LEVEL CHRT. 8 CH SYS. B WAS-60.25~-31. 5, C WAS-46.25~-16.25. D WAS -24.5 W/O A14 WAS 9.5, G WAS 20. LEV ELS FOR 4,16,31 CH'NLS ADDED.NOTE 1 WAS "LEV SHOWN ARE FOR CW CAR RIERS. AT REF POINT "D" THE RF LEVEL WILL BE 3 dB HIGHER IF A14 SIGN'L DET IS PRESENT. NOTE 2 DEL'TD WAS "DASHED LIN ES" INDICATE OPTIONAL	RUB/SL
7	8/34	4/17/97	IBKW ADDED 1 SINGLE STAGE 10W AMPL. MODULE AND 1 CIRCULATOR. REVISED SIGNAL LEVEL CHART. RELS'D FOR PRODUCTION.	JWG
0	---	1/30/97	KEF	APV
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			
					B/D, ITS-605C BROADBAND BOOSTER			
MATERIAL					DWN	JWG	11/4/96	DWG. NO.
FINISH					CHK	KEF	1/30/97	1576-3100
					REL	KEF	1/30/97	2
					C	SCALE ---		SHEET 1 OF 1

RECEIVE ANTENNA

RF INPUT

RF OUTPUT

PRE-AMP
+15dB GAIN
OR
+25dB GAIN
(SEE NOTE)

+18VDC

60VAC

115VAC/60Hz
OR
230VAC/50Hz

EXTERNAL
POWER
SUPPLY

COAXIAL

"N"

"N"

"N"

"F"

"N"

J1

J2

J3

ITS-605C

RF OUTPUT

PREAMP POWER

RF INPUT

AC INPUT

TRANSMIT ANTENNA
ITS-650 (VERT. OR HORIZ.)

NOTE: THE +25dB GAIN PREAMP IS
USED IN PLACE OF THE +15dB
GAIN PREAMP FOR SYSTEMS HAVING
4 CHANNELS OR LESS.

ITS CORPORATION

REV ECN DATE APV

THIS PRINT IS THE
PROPERTY OF ITS CORP.
IT SHALL NOT BE COPIED
WITHOUT PERMISSION.

TITLE INTERCONNECT -
SYSTEM, ITS-605C MULTI-
CHANNEL BOOSTER, MMDS

MATERIAL

FINISH

DWN GK 1/29/97

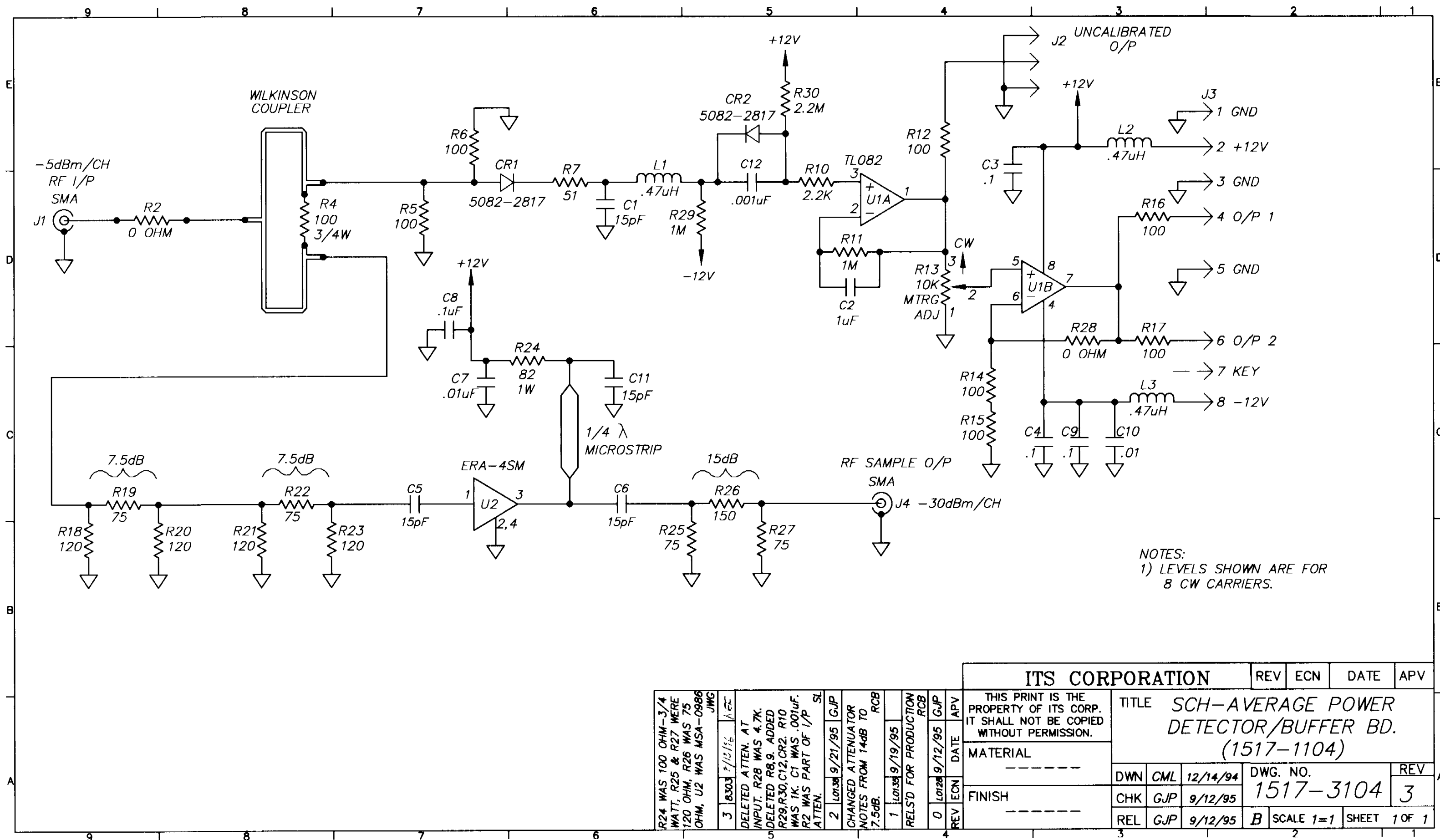
CHK KRF 1/30/97

REL KRF 1/30/97

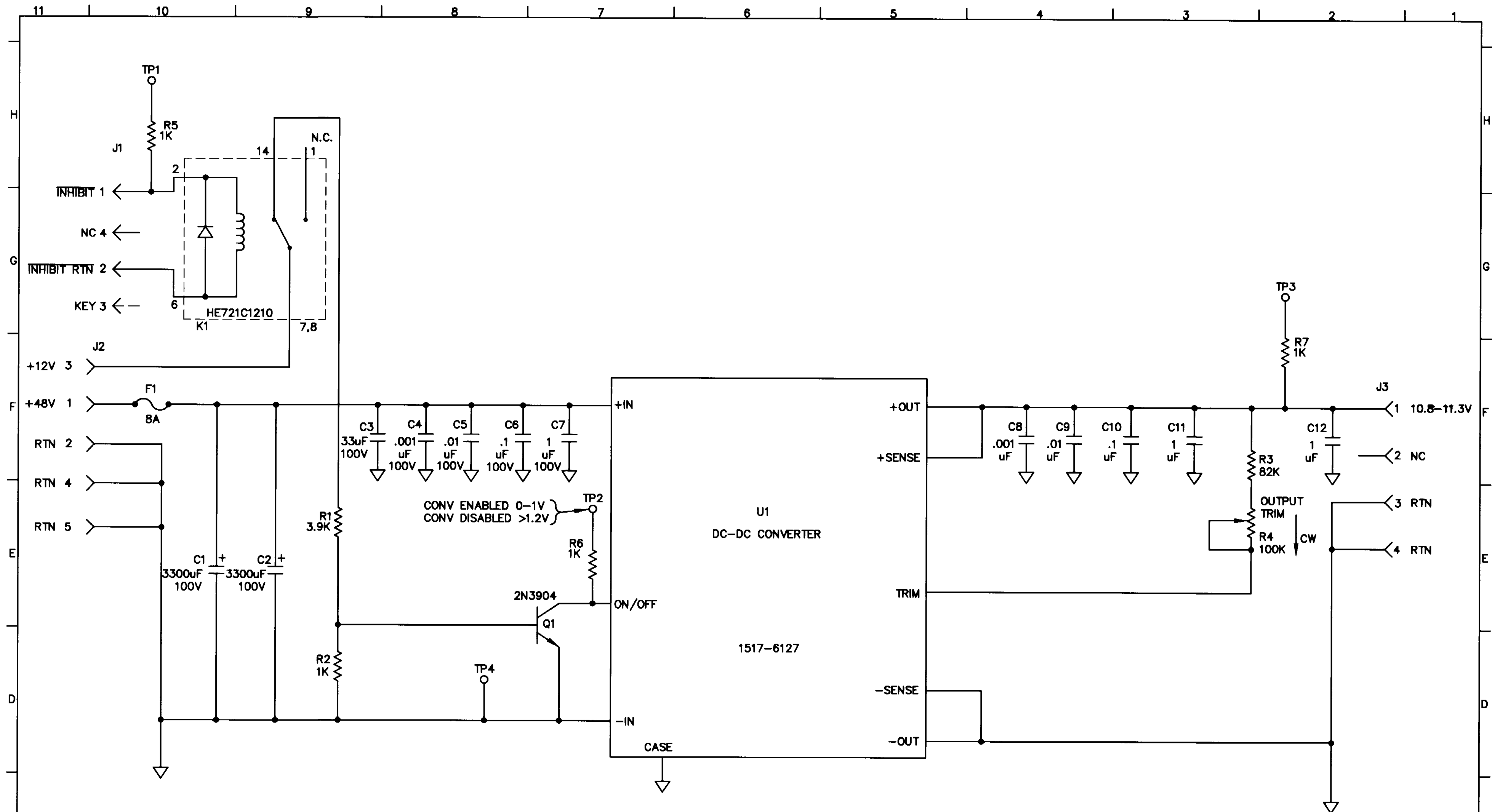
DWG. NO. 1576-8000

REV 0

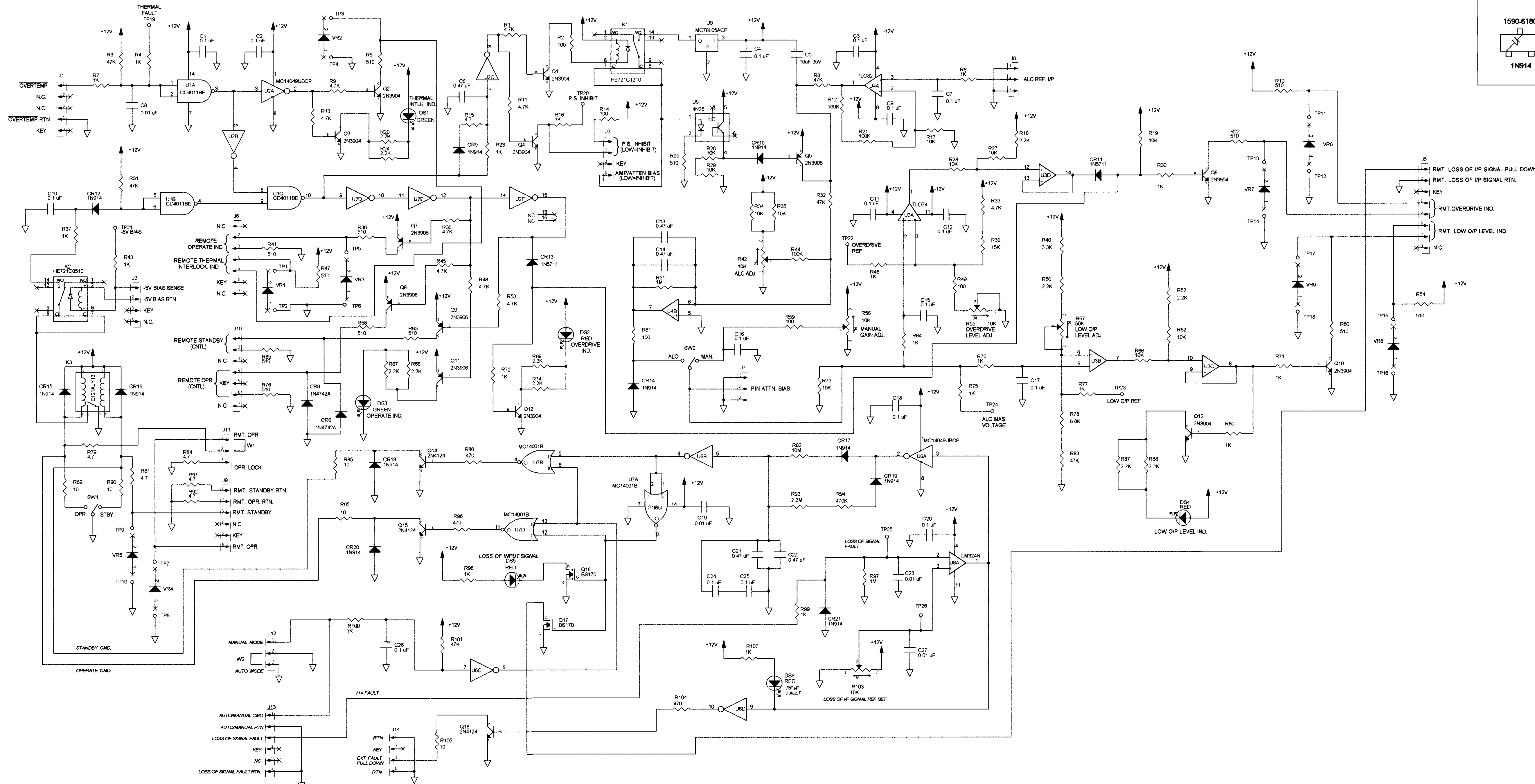
SCALE --- SHEET 1 OF 1



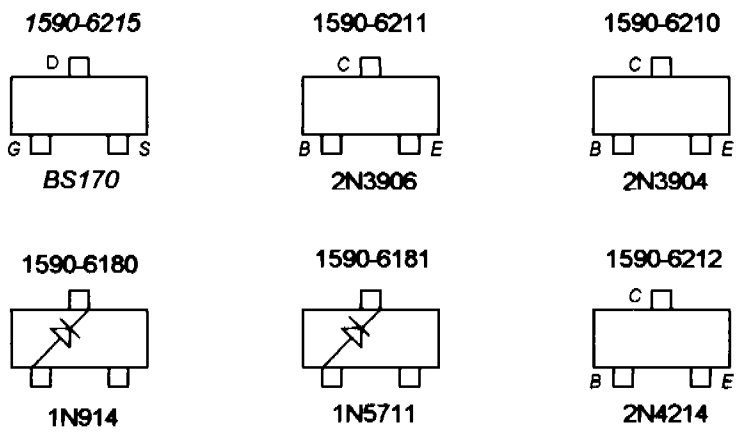
ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE SCH-AVERAGE POWER DETECTOR/BUFFER BD. (1517-1104)			
				MATERIAL			
FINISH				DWN	CML	12/14/94	DWG. NO. 1517-3104
				CHK	GJP	9/12/95	REV 3
REL				GJP	9/12/95	B	SCALE 1=1 SHEET 1 OF 1



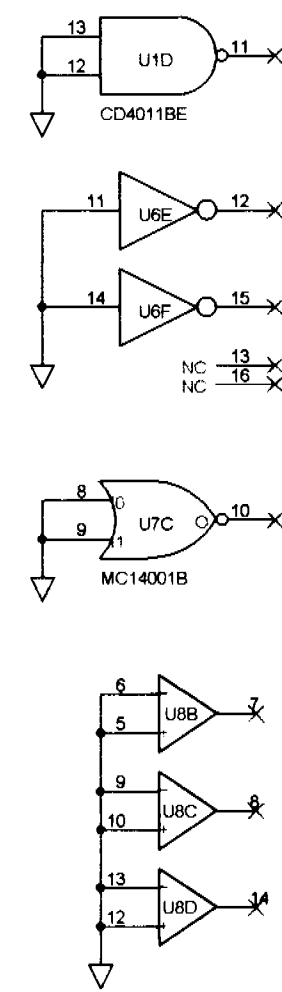
ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
MATERIAL				SCHEMATIC DC-DC CONVERTER BD. (1517-1111)			
FINISH				DWN	RCB	3/21/95	DWG. NO.
				CHK	GJP	8/14/95	1517-3111
				REL	GJP	9/12/95	2
				SCALE		SHEET 1 OF 1	



PINOUT LEGEND



UNUSED

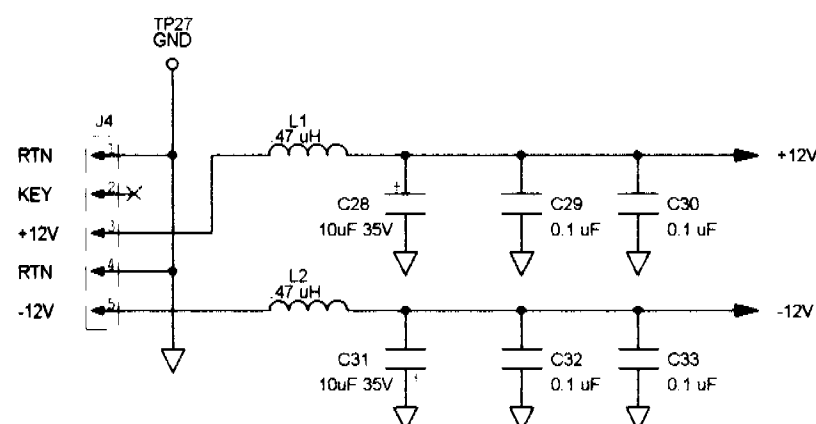


QUICK REFERENCE

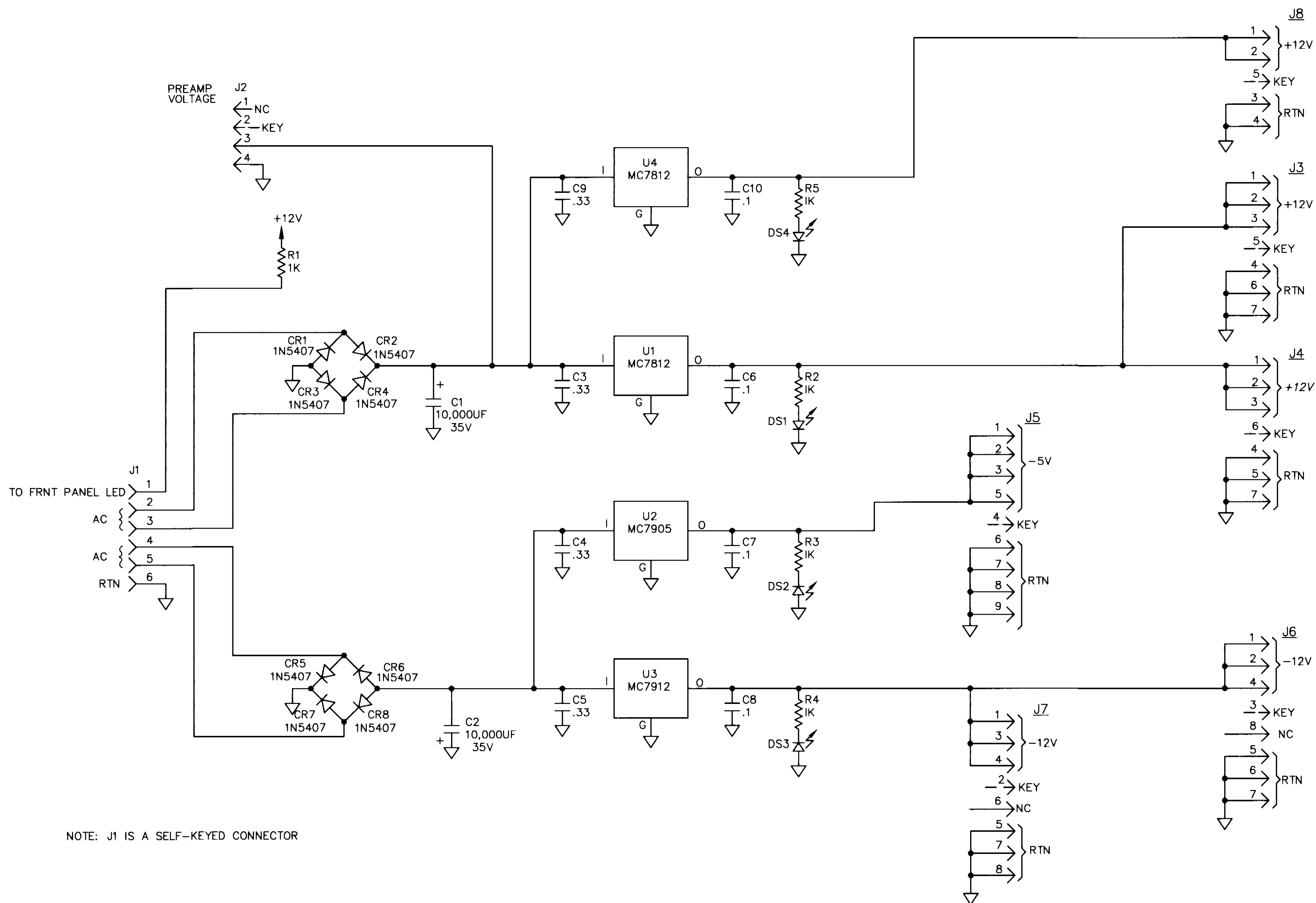
SW1 = OPER./STBY. SWITCH
 SW2 = ALC/MAN. SWITCH
 R42 = ALC ADJ.
 R55 = OVERDRIVE LEVEL ADJ.
 R56 = MANUAL GAIN ADJ.
 R57 = LOW OPR. LEVEL ADJ.
 R103 = LOSS OF IP SIGNAL REF. ADJ.
 W1 = RMT. OPR./OPR. LOCK
 W2 = LOSS OF IP SIGNAL AUTO/MAN.

LAST USED #S

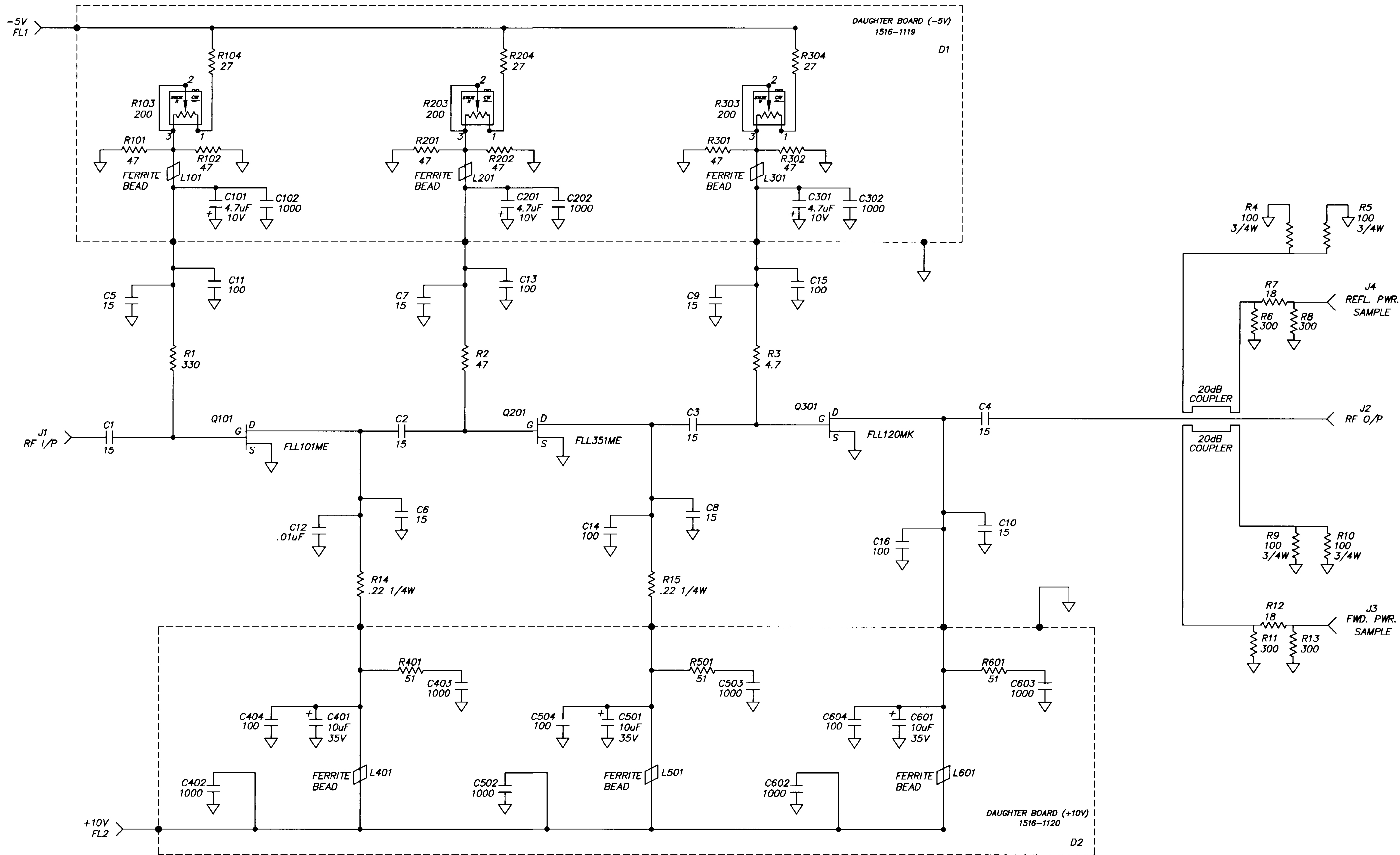
C33
 CR21
 DS1
 J14
 K3
 L2
 Q18
 R105
 SW2
 TP27
 U9
 VR9



IT'S CORPORATION				REV	ECN	DATE	APV
TITLE				SCH., BOOSTER CONTROL BOARD (1576-1101)			
MATERIAL				DWG. NO.	REV		
FINISH				1576-3101	2		
REL	KEF	12/12/96	D	SCALE	SHEET 1 OF 1		

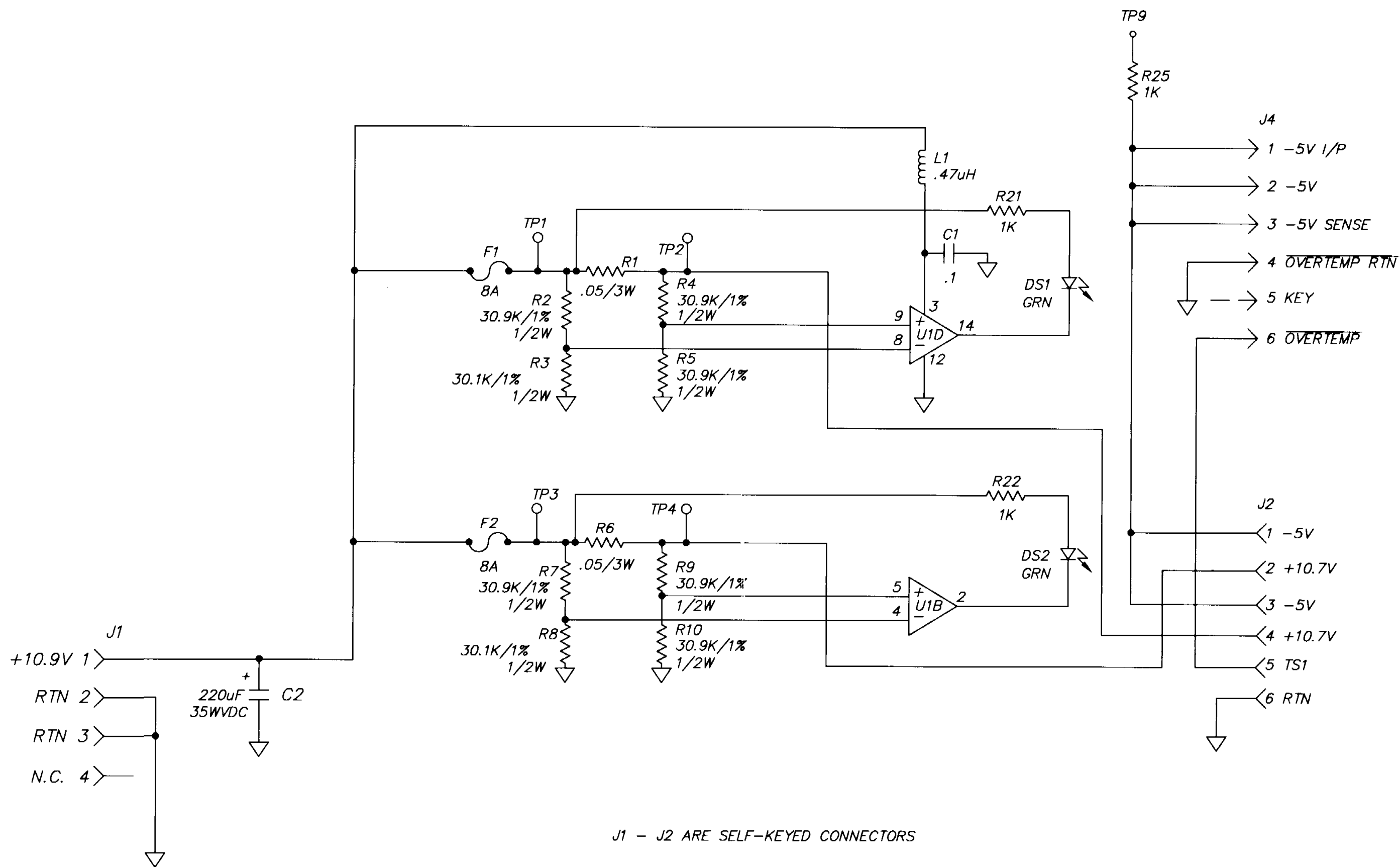


ITS CORPORATION				REV	ECN	DATE	APV
REV	ECN	DATE	APV	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.			
	MATERIAL			TITLE			
	FINISH			SCHEMATIC			
				±12V/-5V POWER SUPPLY BOARD			
DWN	JWG	11/8/96	DWG. NO.	1576-3102			
CHK	KEF	11/8/96	REL	0			
REL	KEF	11/8/96	SCALE	SHEET 1 OF 1			

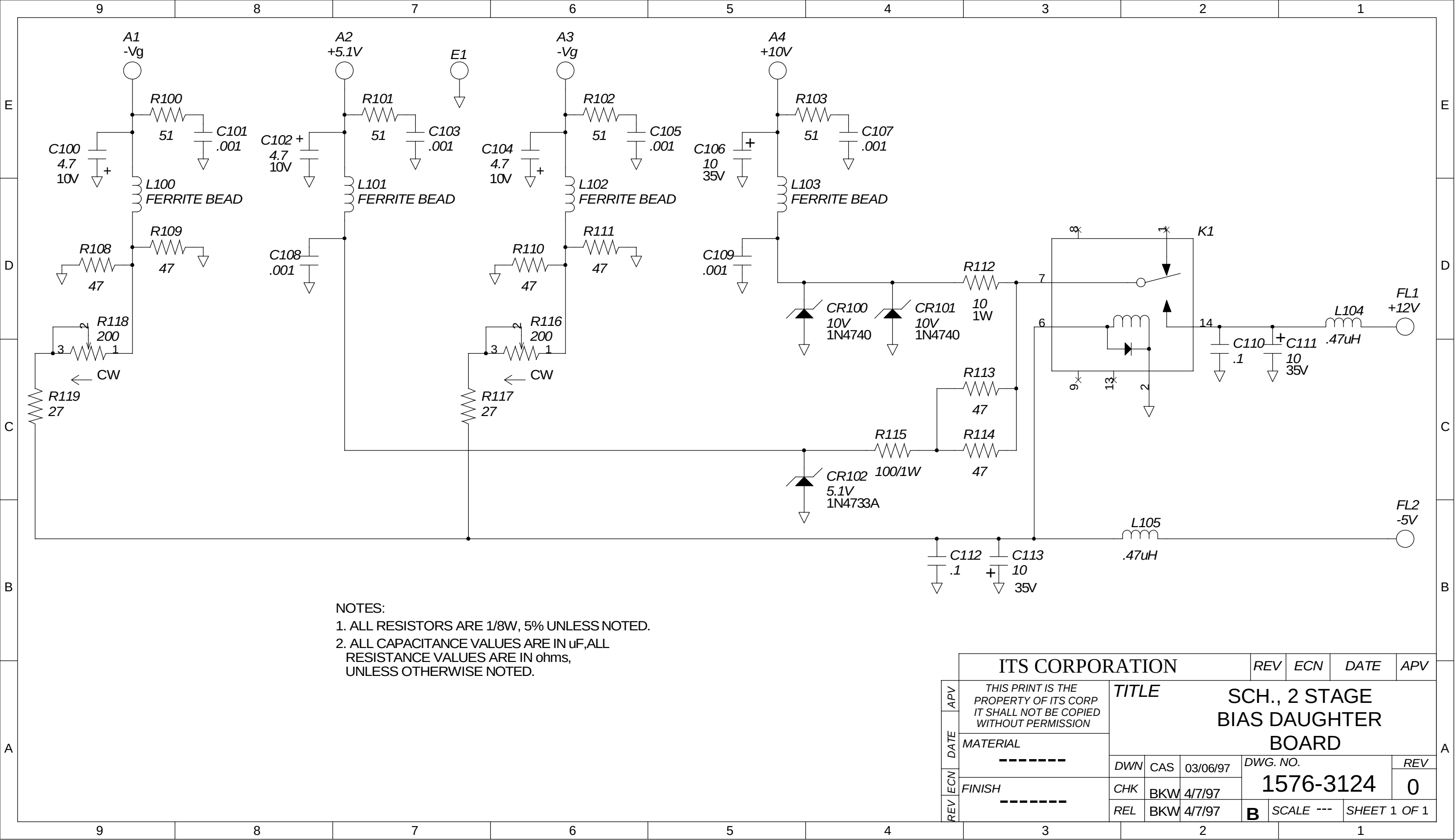


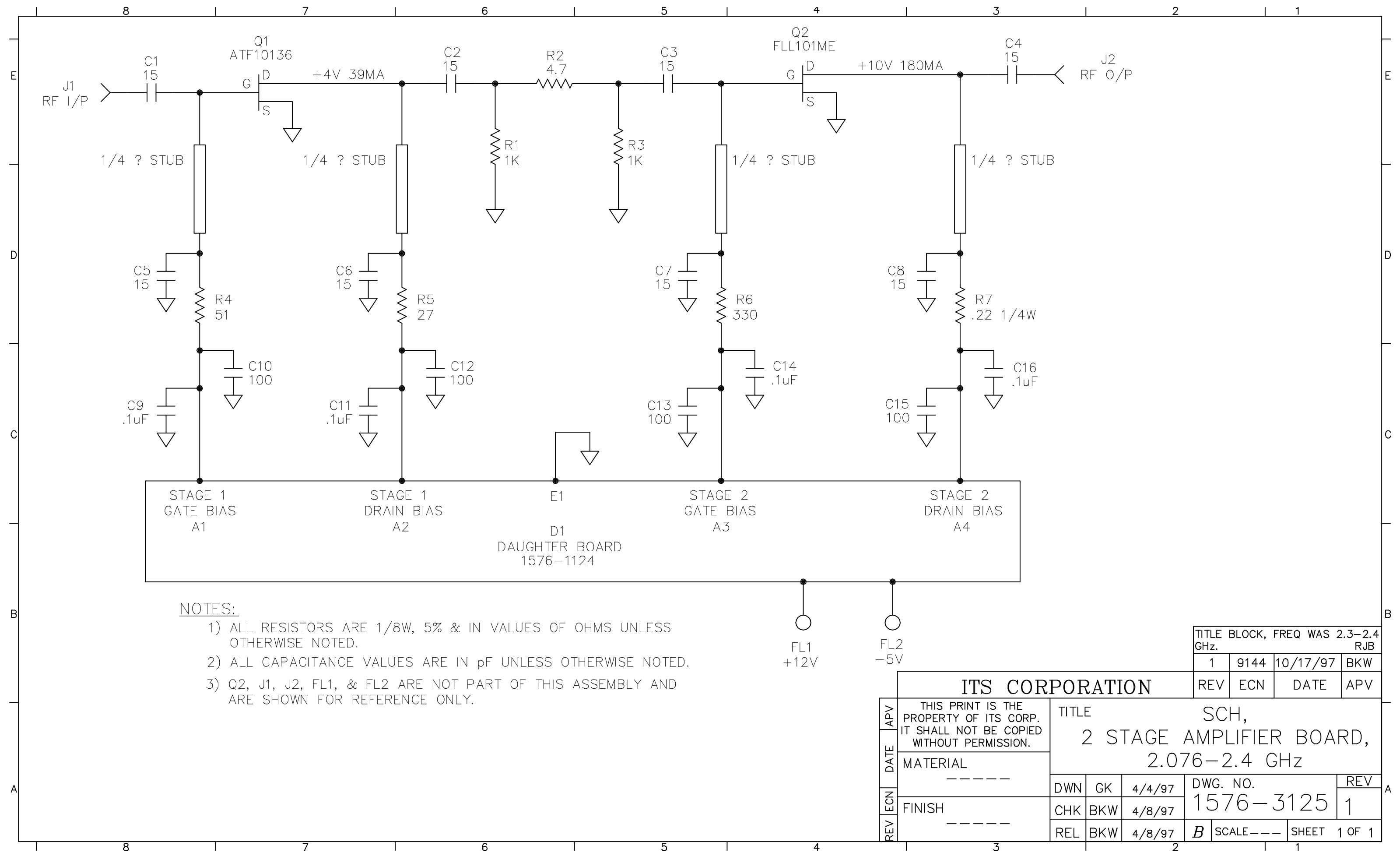
- NOTES:**
1. ALL RESISTORS ARE 1/8W, 5% UNLESS NOTED.
 2. ALL CAPACITANCE VALUES ARE IN pF. ALL RESISTANCE VALUES ARE IN ohms. UNLESS OTHERWISE NOTED.
 3. BLACK BAND INDICATES NEGATIVE POLARITY ON 10uF 35V ALUMINUM ELECTROLYTIC CAPACITOR. BAND INDICATES POSITIVE POLARITY ON 4.7uF 10V TANTALUM ELECTROLYTIC CAPACITOR.

ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE SCHEMATIC, 3 STAGE 8W AMPLIFIER ASSY. (1516-1107)			
MATERIAL				DWN	CAS	4/11/95	DWG. NO.
FINISH				CHK	DJU	4/11/95	1516-3107 1
				REL	DJU	4/11/95	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			
				SCH., 2 SECTION BIAS PROTECTION BD. (1576-1114)			
REV	ECN	DATE	APV	DWN	JKF	1/17/97	DWG. NO.
FINISH	CHK	REF	11/17/97	REL	REF	11/17/97	1576-3114 0
SCALE ---				SHEET 1 OF 1			

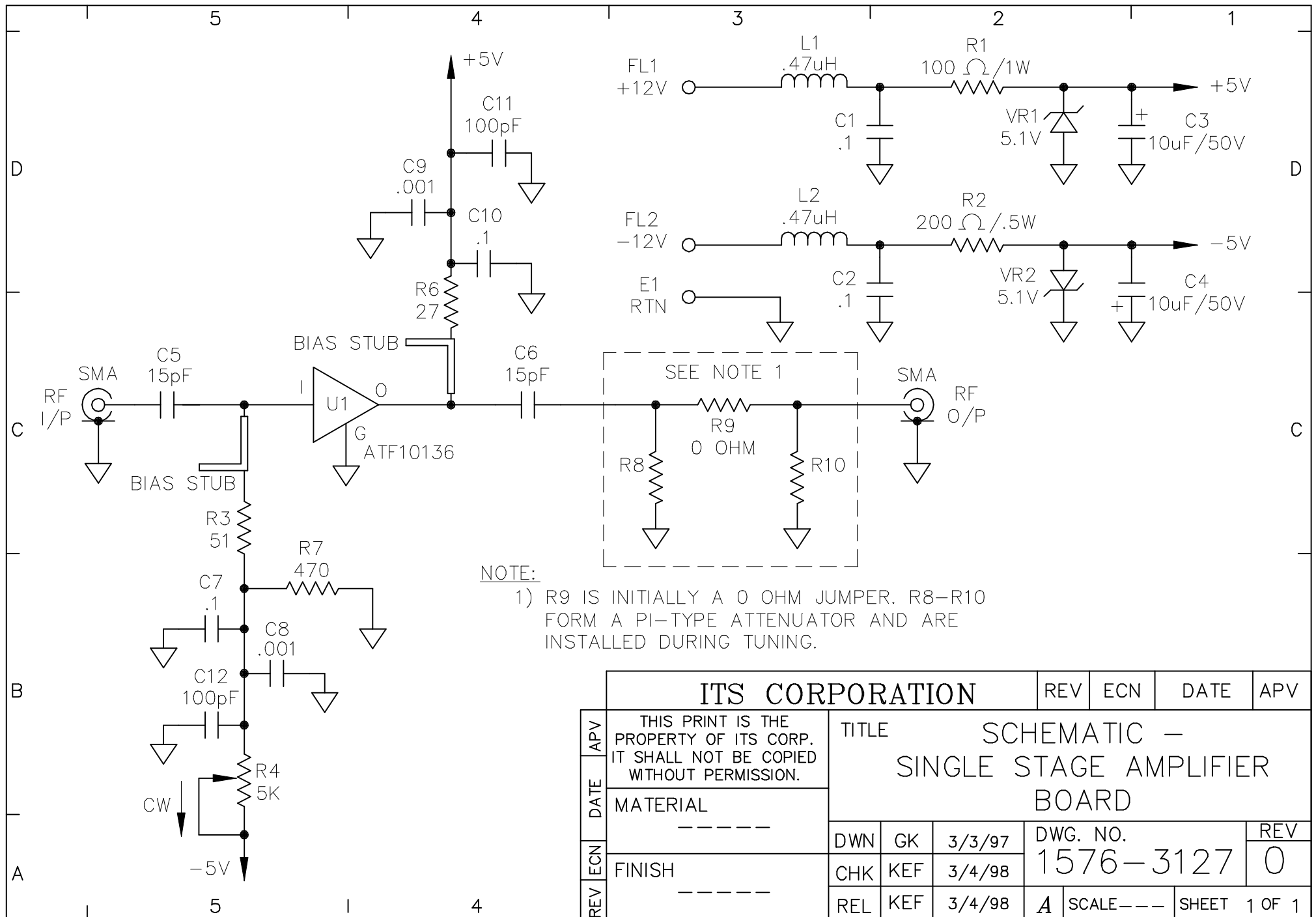




NOTES:

- 1) ALL RESISTORS ARE 1/8W, 5% & IN VALUES OF OHMS UNLESS OTHERWISE NOTED.
- 2) ALL CAPACITANCE VALUES ARE IN pF UNLESS OTHERWISE NOTED.
- 3) Q2, J1, J2, FL1, & FL2 ARE NOT PART OF THIS ASSEMBLY AND ARE SHOWN FOR REFERENCE ONLY.

TITLE BLOCK, FREQ WAS 2.3-2.4 GHz.				RJB			
1	9144	10/17/97	BKW				
REV	ECN	DATE	APV				
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE SCH, 2 STAGE AMPLIFIER BOARD, 2.076-2.4 GHz			
MATERIAL -----				DWN	GK	4/4/97	DWG. NO. 1576-3125
FINISH -----				CHK	BKW	4/8/97	REV 1
REV	ECN	DATE	APV	REL	BKW	4/8/97	B SCALE --- SHEET 1 OF 1

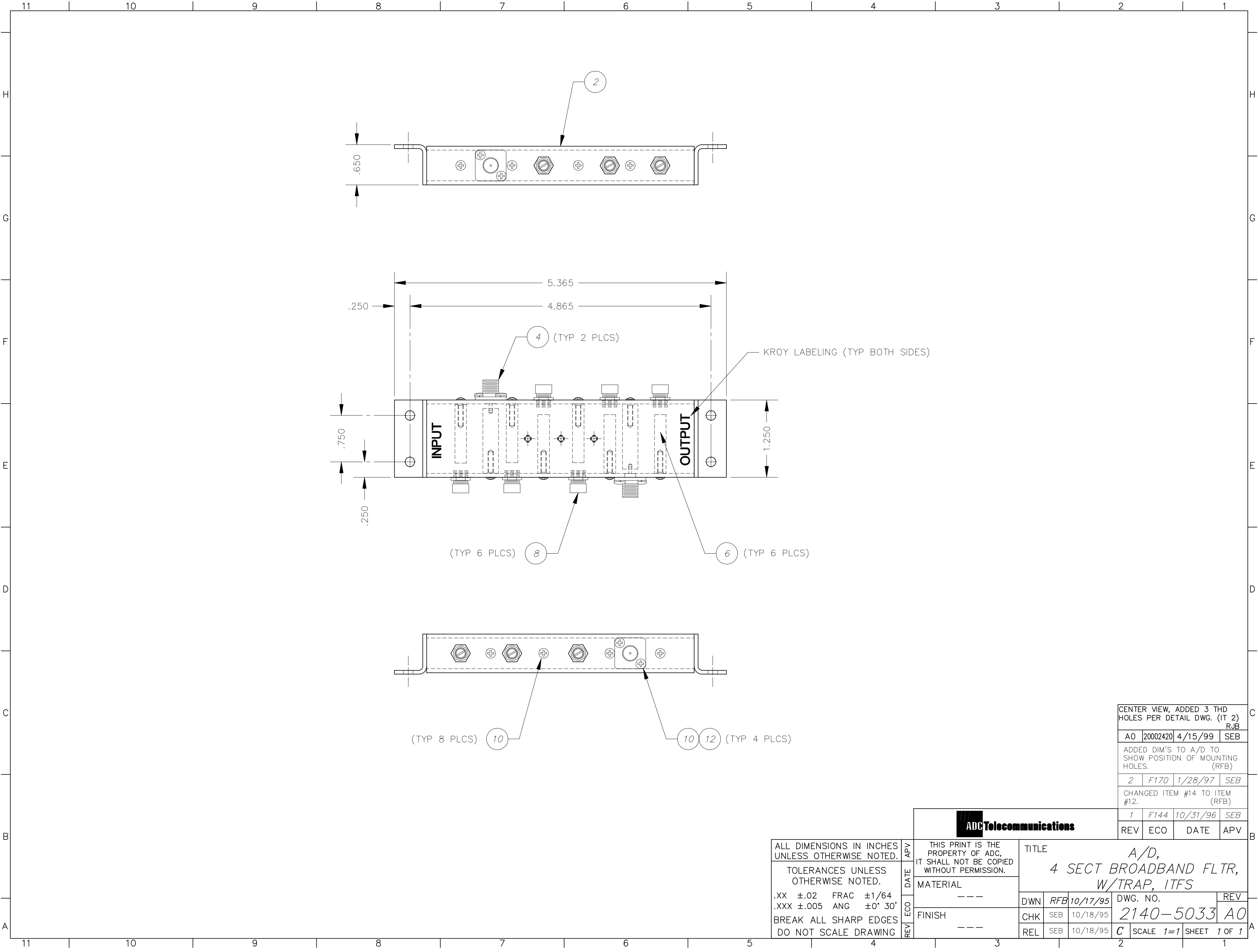


ITS CORPORATION				REV	ECN	DATE	APV	
REV	ECN	DATE	APV	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				
				TITLE SCHEMATIC – SINGLE STAGE AMPLIFIER BOARD				
MATERIAL				DWN	GK	3/3/97	DWG. NO.	REV
FINISH				CHK	KEF	3/4/98	1576-3127	0
REL				KEF	3/4/98	A	SCALE---	SHEET 1 OF 1



- 1) ALL RESISTORS ARE 1/8W UNLESS OTHERWISE NOTED.
- 2) ALL CAPACITORS ARE IN μF UNLESS OTHERWISE NOTED.
- 3) ALL INDUCTORS ARE IN μH UNLESS OTHERWISE NOTED.

1



CENTER VIEW, ADDED 3 THD HOLES PER DETAIL DWG. (IT 2) RJB			
A0	20002420	4/15/99	SEB
ADDED DIM'S TO A/D TO SHOW POSITION OF MOUNTING HOLES. (RFB)			
2	F170	1/28/97	SEB
CHANGED ITEM #14 TO ITEM #12. (RFB)			
1	F144	10/31/96	SEB
REV	ECO	DATE	APV

				ADCTelecommunications				1		F144		10/31/96		SEB							
								REV		ECO		DATE		APV							
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.				APV		THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE A/D, 4 SECT BROADBAND FLTR, W/TRAP, ITFS											
TOLERANCES UNLESS OTHERWISE NOTED.				DATE		MATERIAL															
.XX ±.02 FRAC ±1/64 .XXX ±.005 ANG ±0° 30'				ECO		---				DWN		RFB		10/17/95		DWG. NO.		REV			
BREAK ALL SHARP EDGES DO NOT SCALE DRAWING				REV		FINISH				CHK		SEB		10/18/95		2140-5033		A0			
						---				REL		SEB		10/18/95		C		SCALE 1=1		SHEET 1 OF 1	