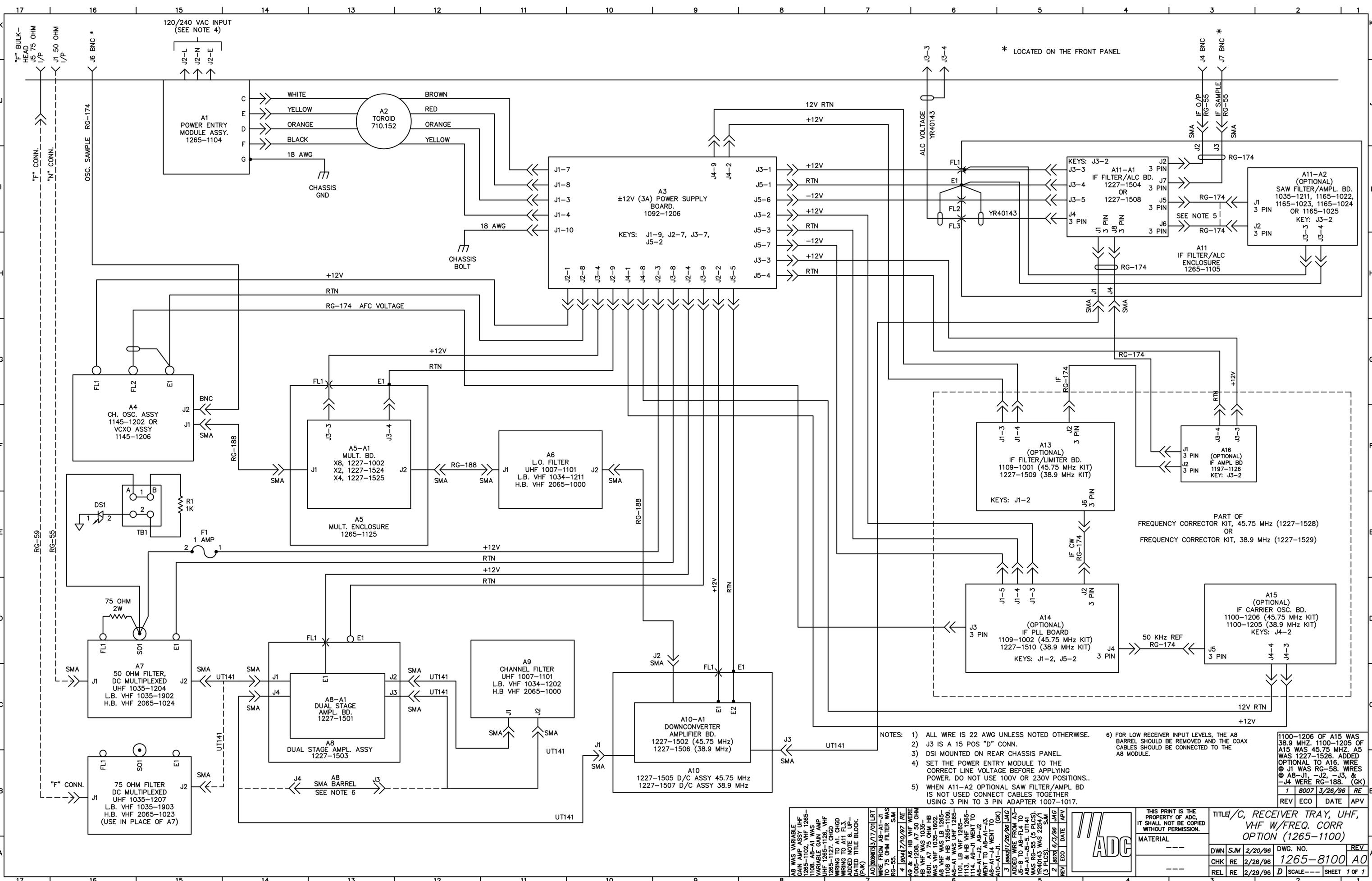


- NOTES:**
- 1) WHEN THE 50 OHM FILTER IS USED, THE INPUT TO THE RECEIVER IS J1. WHEN THE 75 OHM FILTER IS USED, THE INPUT TO THE RECEIVER IS J5.
  - 2) THE 38.9 MHZ IF CARRIER OSC. IS USED IN THE 45.75 MHZ FREQ. CORR. KIT. THE 45.75 MHZ IF CARRIER OSC. IS USED IN THE 38.9 MHZ FREQ. CORR. KIT.
  - 3) THE A8 SMA BARREL IS REMOVED FOR LOW SIGNAL INPUT TO THE RECEIVER TRAY. THE COAX CABLES ARE THEN CONNECTED TO THE A8 DUAL STAGE AMPL. MODULE.

A8 WAS VARIABLE GAIN AMP ASSY. UHF 1265-1102, VHF 1265-1108. A8-A1 WAS VARIABLE GAIN AMP. UHF 1265-1126 VHF 1265-1127. MODIFIED INPUT TO A11 FL3. (PJK)

|   |          |          |     |
|---|----------|----------|-----|
| AO  | 20084973 | 3/19/01  | LRT |
| A9 & A6 HB VHF WERE 1005-1208. A7 50 OHM HB VHF WAS 1035-1601. A7 75 OHM HB VHF WAS 1035-1602. A8 VHF WAS LB 1265-1108 & HB 1265-1109. A8-A1 WAS UHF 1265-1101, LB VHF 1265-1113, & HB VHF 1265-1114. A9-J1 WENT TO A8-A1-J2. A9-J2 WENT TO A8-A1-J3. A8-A1-J4 WENT TO A10-A1-J1.(GK) |          |          |     |
| 2   | 8662     | 11/26/96 | JAG |
| ADDED -12V TO A8 THRU FL4 SUM   |          |          |     |
| 1   | 8070     | 5/31/96  | JAG |
| REV   | ECO      | DATE     | APV |

|     |     |      |     |  |   |    |         |   |   |              |         |           |     |
|-----|-----|------|-----|--|---|----|---------|---|---|--------------|---------|-----------|-----|
| REV | ECO | DATE | APV |  | THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION. |    |         |   | TITLE <b>B/D - UHF/VHF RECEIVER TRAY W/FREQ. CORR. OPTION (1265-1100)</b> |              |         |           |     |
|     |     |      |     |  | MATERIAL ---  |    |         |   | DWN   | GK           | 3/8/96  | DWG. NO.  | REV |
|     |     |      |     |  | FINISH ---  |    |         |   | CHK   | RE           | 3/18/96 | 1265-3100 | A0  |
|     |     |      |     |  | REL   | RE | 3/18/96 | C | SCALE ---   | SHEET 1 OF 1 |         |           |     |



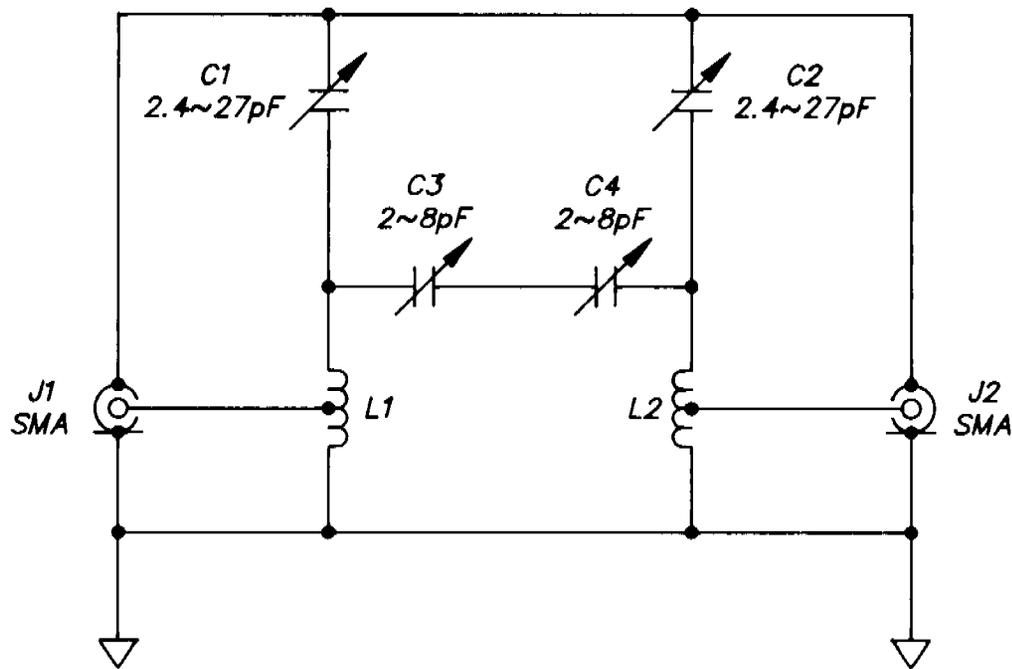
\* LOCATED ON THE FRONT PANEL

- NOTES:
- 1) ALL WIRE IS 22 AWG UNLESS NOTED OTHERWISE.
  - 2) J3 IS A 15 POS "D" CONN.
  - 3) DSI MOUNTED ON REAR CHASSIS PANEL.
  - 4) SET THE POWER ENTRY MODULE TO THE CORRECT LINE VOLTAGE BEFORE APPLYING POWER. DO NOT USE 100V OR 230V POSITIONS.
  - 5) WHEN A11-A2 OPTIONAL SAW FILTER/AMPL BD IS NOT USED CONNECT CABLES TOGETHER USING 3 PIN TO 3 PIN ADAPTER 1007-1017.
  - 6) FOR LOW RECEIVER INPUT LEVELS, THE A8 BARREL SHOULD BE REMOVED AND THE COAX CABLES SHOULD BE CONNECTED TO THE A8 MODULE.

|     |      |         |     |
|-----|------|---------|-----|
| 1   | 8007 | 3/26/96 | RE  |
| REV | ECO  | DATE    | APV |

|   |  |  |   |                                      |
|---|--|--|---|--------------------------------------|
| A8 WAS VARIABLE GAIN AMP ASSY UHF 1265-1102, VHF 1285-1108. A8-A1 WAS VARIABLE GAIN AMP UHF 1265-1207, VHF 1265-1206. WIRING TO A11 FL3. WIRING TO A11 FL3. ADDED NOTE 6. UP-DATED TITLE BLOCK. (P-K) | A10 1007/17/01 LRT WIRE FROM A8-A1-J1 TO 75 OHM FILTER WAS RG-55. S.M. | A9 1804/17/02/RE HB VHF WAS 1035-1601. A7 75 OHM HB WAS VHF 1035-1602. A8 VHF WAS LB 1285-1108 & HB 1285-1109. A10-A1 VHF 1265-1113 & HB VHF 1265-1114. A9-J1 WENT TO A8-A1-J2. A9-J2 WENT TO A8-A1-J3. A8-A1-J4 WENT TO A10-A1-J1. (GK) | A11 1862/11/29/96 LAG ADDED WIRE FROM A3-J5-B TO A8-FL4 TO A8-A1-J5. UT141 WAS 1035-1105. (3 FLCS) S.M. | A12 1824/6/2/96 LAG REV ECD DATE APV |
|---|--|--|---|--------------------------------------|

|   |     |         |              |
|---|-----|---------|--------------|
| THIS PRINT IS THE PROPERTY OF ADC. IT SHALL NOT BE COPIED WITHOUT PERMISSION. |     |         |              |
| MATERIAL  |     |         |              |
| TITLE/C, RECEIVER TRAY, UHF, VHF W/FREQ. CORR OPTION (1265-1100)              |     |         |              |
| DWN   | SJM | 2/20/96 | DWG. NO.     |
| CHK   | RE  | 2/26/96 | 1265-8100    |
| REL   | RE  | 2/29/96 | D SCALE      |
|   |     |         | SHEET 1 OF 1 |

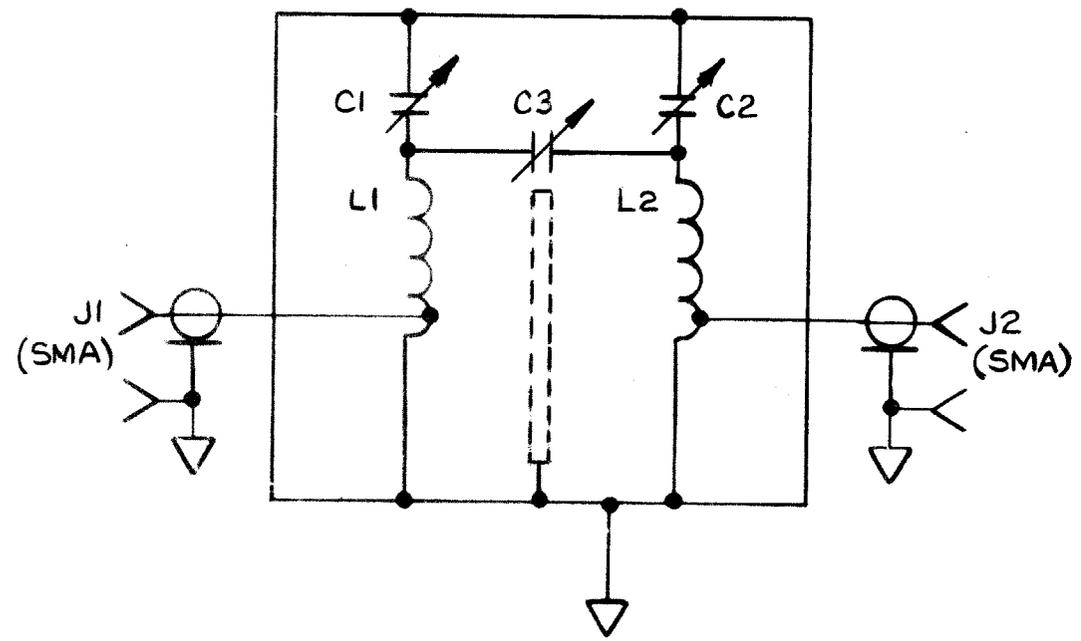


NOTE: C3 AND C4 ARE FREQUENCY DEPENDENT; MAY BE REMOVED FOR HIGHEST CHANNEL.

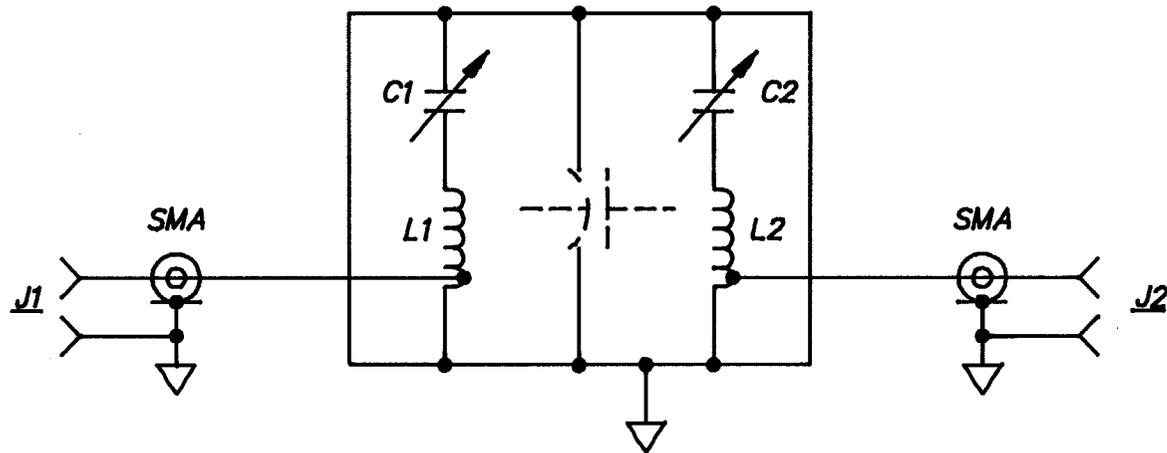
|                 |      |  |  |  |     |           |                        |
|-----------------|------|--|--|--|-----|-----------|------------------------|
| ITS CORPORATION |      |  |  | REV                                      | ECN | DATE      | APV                    |
| REV             | APV  | THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION. |  | TITLE                                    |     |           |                        |
|                 |      | MATERIAL   |  | SCHEMATIC -<br>VHF FILTER<br>(1005-1208) |     |           |                        |
| ECN             | DATE | FINISH   |  | DWN                                      | TM  | DWG. NO.  | REV                    |
|                 |      | ---  |  | CHK                                      | CAR | 1005-3208 | 0                      |
| REV             | ECN  | ---  |  | REL                                      | CAR | A         | SCALE --- SHEET 1 OF 1 |
|                 |      |  |  |  |     | 6/13/85   |                        |
|                 |      |  |  |  |     | 1/24/92   |                        |
|                 |      |  |  |  |     | 1/24/92   |                        |

DO NOT REVISE

|           |                                 |         |          |
|-----------|---------------------------------|---------|----------|
| C3        | APPLICATIONS                    | C1, C2  | L1, L2   |
|           |                                 |         |          |
|           |                                 |         |          |
|           | (CHANNEL HIGH BAND)             |         |          |
| .5 - 8 pf | 1034-1302<br>(CHANNEL LOW BAND) | 1-20 pf | 10 TURNS |

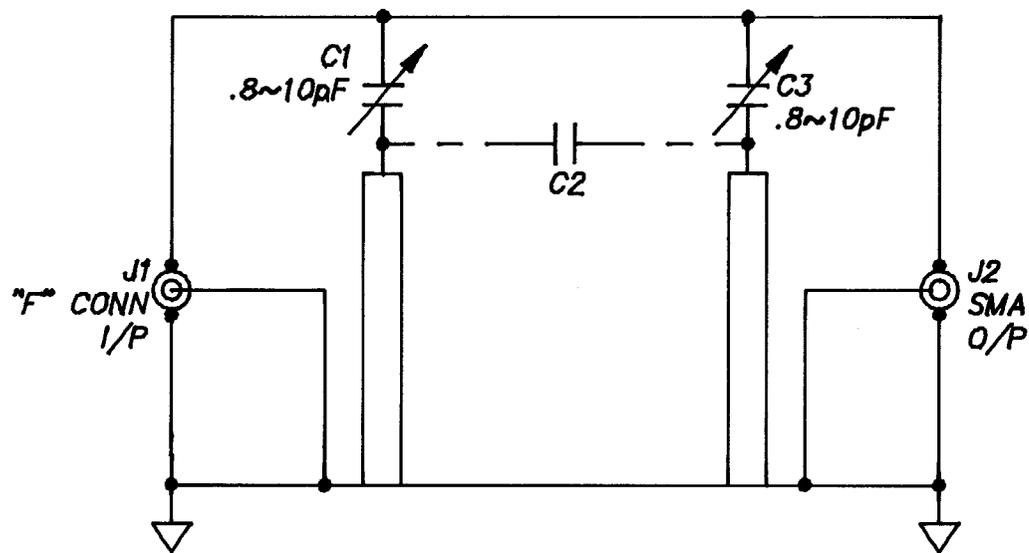


| ECN                                       | DATE    | BY     | DESCRIPTION   | CK        | REL      |
|---|---------|--------|---|-----------|----------|
| OWN                                       | 11/6/86 | P. 118 | SCHEMATIC,<br>2 SECTION UHF LOW<br>BAND CH. FILTER<br>(1034-1202) |           |          |
| CKD                                       |         |        |   |           |          |
| REL                                       |         |        |   |           |          |
| INFORMATION TRANSMISSION<br>SYSTEMS CORP. |         |        | A   | 1034-3202 | REV<br>P |



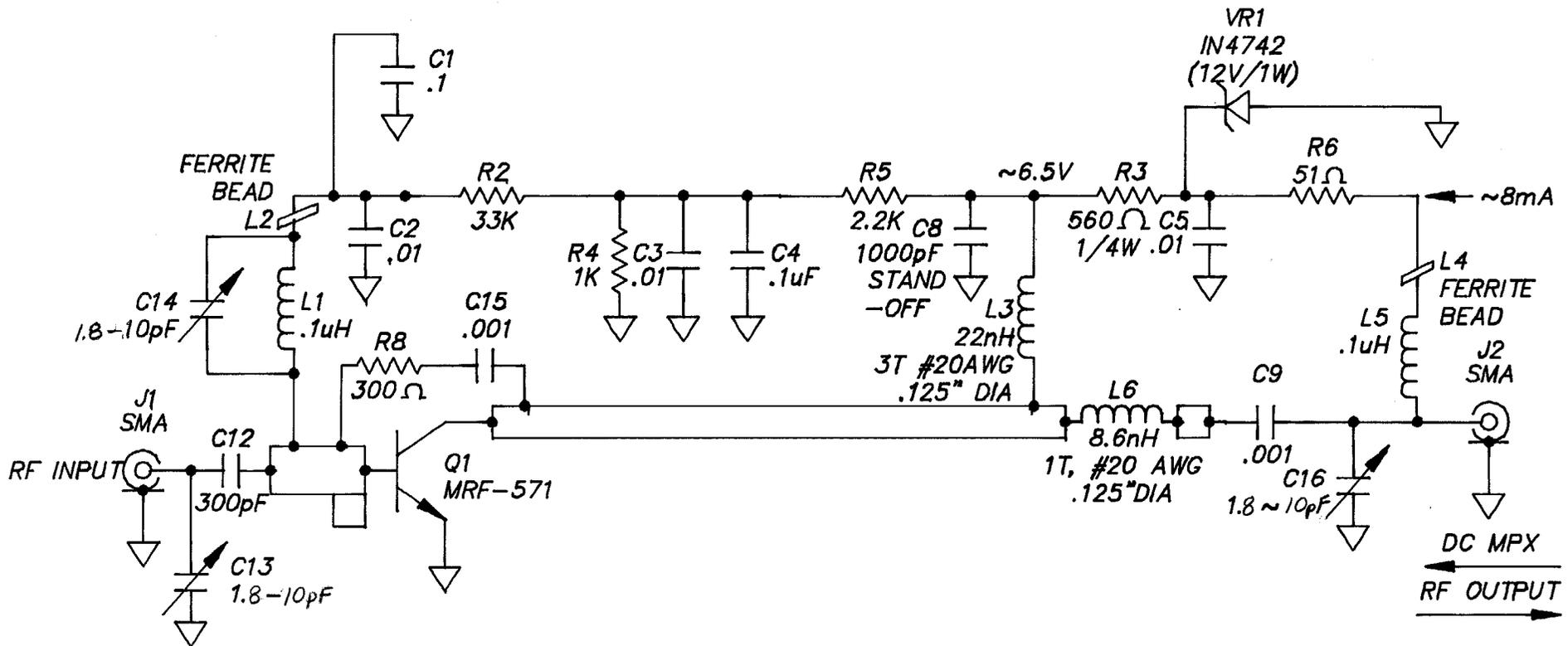
L1, L2 - 10 TURN #14 AWG WIRE .5" DIA.  
 C1, C2 - 1~20pF

| 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 - VHF L.O. FILTER, 2 SECTION LOW BAND (1034-1211)                  |     |         |         |           |              |     |
| REV             | ECN | DATE | APV | MATERIAL   | DWN |         | CR      | 3/17/87   | DWG. NO.     | REV |
|                 |     |      |     | FINISH   | CHK | DWB     | 3/17/87 | 1034-3211 | 0            |     |
| REV             | ECN | DATE | APV | REL  | DWB | 4/15/87 | A       | SCALE --- | SHEET 1 OF 1 |     |

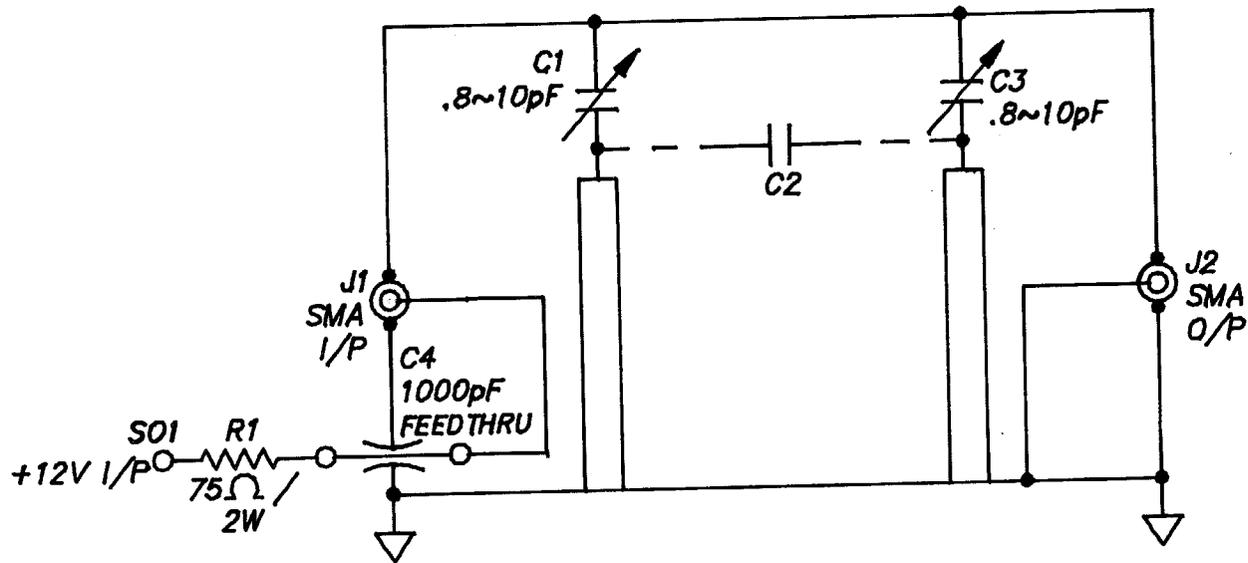


NOTE: C2 IS STRAY CAPACITANCE  
BETWEEN LINE SECTIONS.

| 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 - UHF FILTER, 75Ω/50Ω (1035-1302)                                  |     |         |         |           |              |
| REV             | ECN | DATE | APV | MATERIAL   | DWN | JEO     | 9/7/89  | DWG. NO.  | REV          |
|                 |     |      |     | FINISH   | CHK | RE      | 9/13/89 | 1035-3302 | 0            |
| REV             | ECN | DATE | APV | REL  | RE  | 9/13/89 | A       | SCALE---  | SHEET 1 OF 1 |

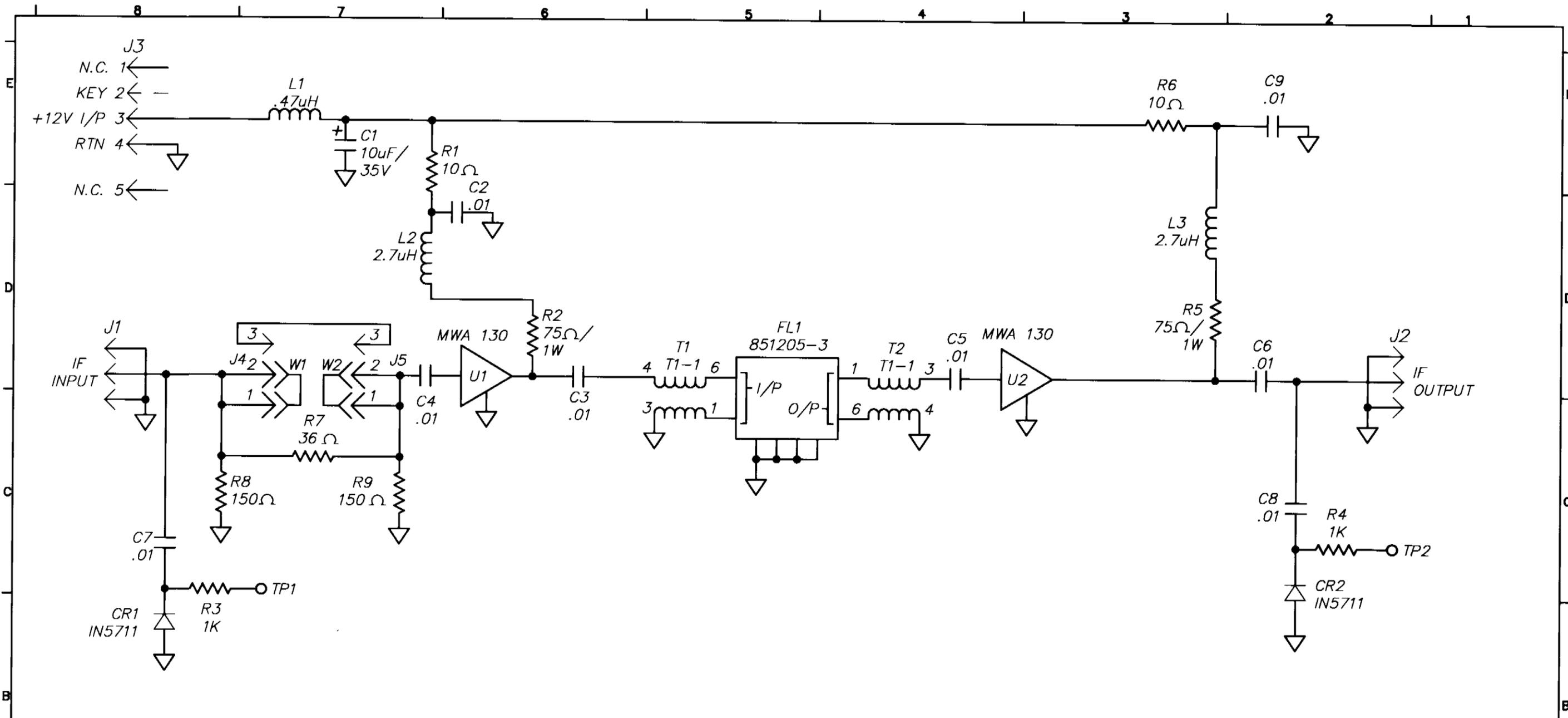


| ITS CORPORATION  |          |      |     | REV  | ECN | DATE    | APV     |           |              |
|--|----------|------|-----|--|-----|---------|---------|-----------|--------------|
| C16 WAS 1.5-6 pF.<br>C13 WAS 1.5-6 pF.<br>C14 WAS 2-10 pF, SUM | REV      | DATE | APV | TITLE SCH - LOW NOISE<br>UHF AMPL. 50Ω I/P, 75Ω O/P<br>(1035-1303) |     |         |         |           |              |
|  | ECN      | DATE | APV |  |     |         |         |           |              |
|  | MATERIAL |      |     |  | DWN | JEO     | 9/7/89  | DWG. NO.  | REV          |
|  | FINISH   |      |     |  | CHK | RE      | 9/13/89 | 1035-3303 | 1            |
|  |          |      |     | REL  | RE  | 9/13/89 | A       | SCALE --  | SHEET 1 OF 1 |

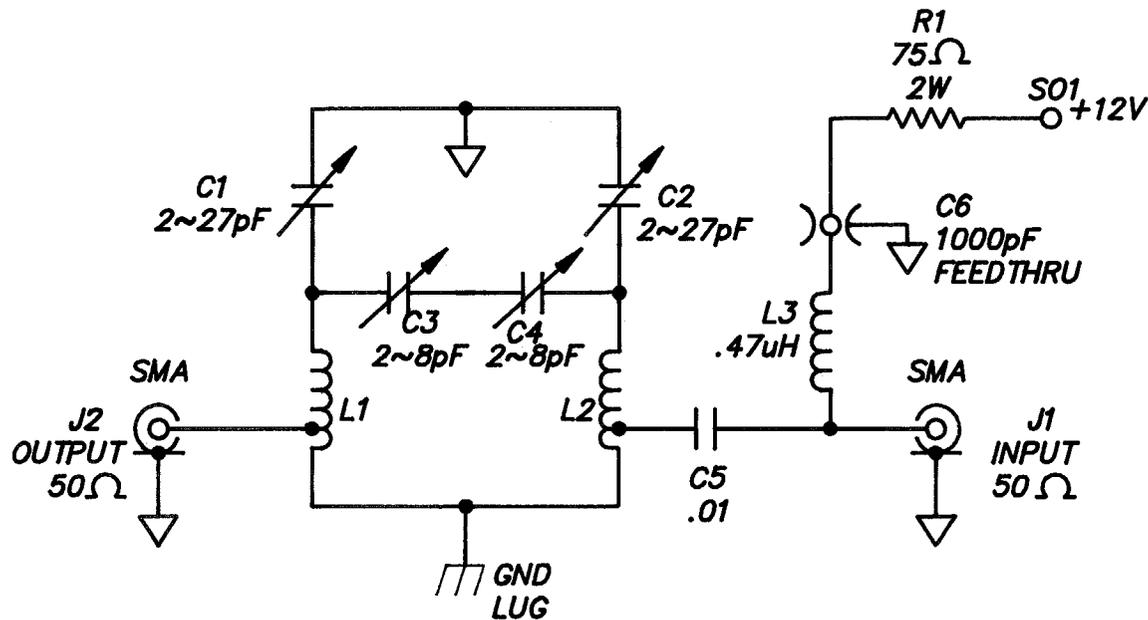


NOTE: C2 IS STRAY CAPACITANCE  
BETWEEN LINE SECTIONS.

| ITS CORPORATION |      |     |  | REV     | ECN | DATE | APV |           |              |     |
|-----------------|------|-----|--|---------|-----|------|-----|-----------|--------------|-----|
| REV             | DATE | APV | THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION. |         |     |      |     |           |              |     |
|                 |      |     | TITLE SCHEMATIC - UHF FILTER, DC MULTIPLEXED (1035-1204)                           |         |     |      |     |           |              |     |
| REV             | DATE | APV | MATERIAL   |         | DWN |      | JEO | 7/5/89    | DWG. NO.     | REV |
|                 |      |     | FINISH   |         | CHK |      | JCM | 7/24/89   | 1035-3204    | 0   |
| REL             |      | JCM |  | 7/24/89 |     | A    |     | SCALE---- | SHEET 1 OF 1 |     |



|   |              |      |     |  |          |   |  |       |     |              |     |
|---|--------------|------|-----|--|----------|---|--|-------|-----|--------------|-----|
| CHGD FL1 B0126 TO 851205-3, C1 10uF 25V TO 35V. (PJK) |              | DATE | APV | THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION. |          | TITLE   |  | REV   | ECN | DATE         | APV |
| 1   | 787812/19/94 | DWR  | APV | MATERIAL   |          | SCHEMATIC - SAW FILTER/AMPLIFIER BD (1035-1211) |  |       |     |              |     |
| FINISH  |              | DWN  |     | JEO  | 10/18/89 | DWG. NO.  |  | REV   |     |              |     |
|   |              | CHK  |     | JCM  | 10/20/89 | 1035-3211                                       |  | 1     |     |              |     |
|   |              | REL  |     | JCM  | 10/20/89 | B   |  | SCALE |     | SHEET 1 OF 1 |     |

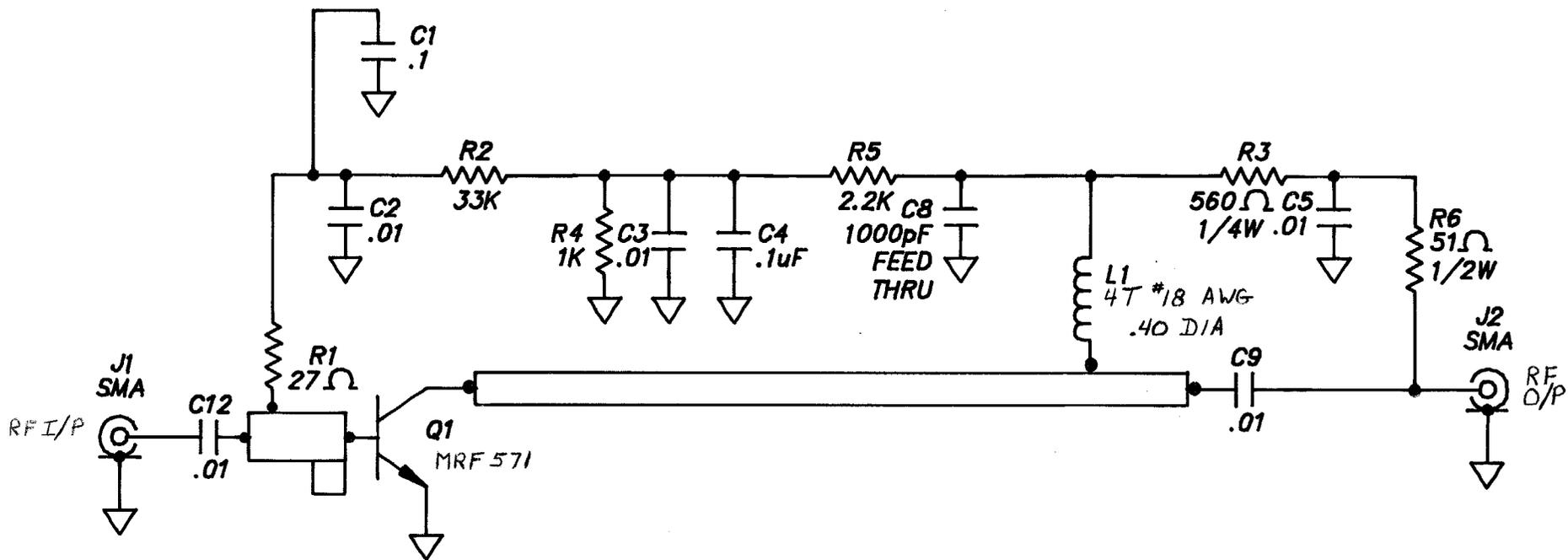


- NOTES: 1) L1 AND L2 ARE 3 TURNS, #14 AWG  
ON FORM #530-0005-00-00.00  
2) C1 THRU C4 ARE TUNING ADJUSTS

|            |      |         |     |
|------------|------|---------|-----|
| C2 WAS uF. |      |         | RLS |
| 1          | 3546 | 2/19/92 | SPH |
| REV        | ECN  | DATE    | APV |

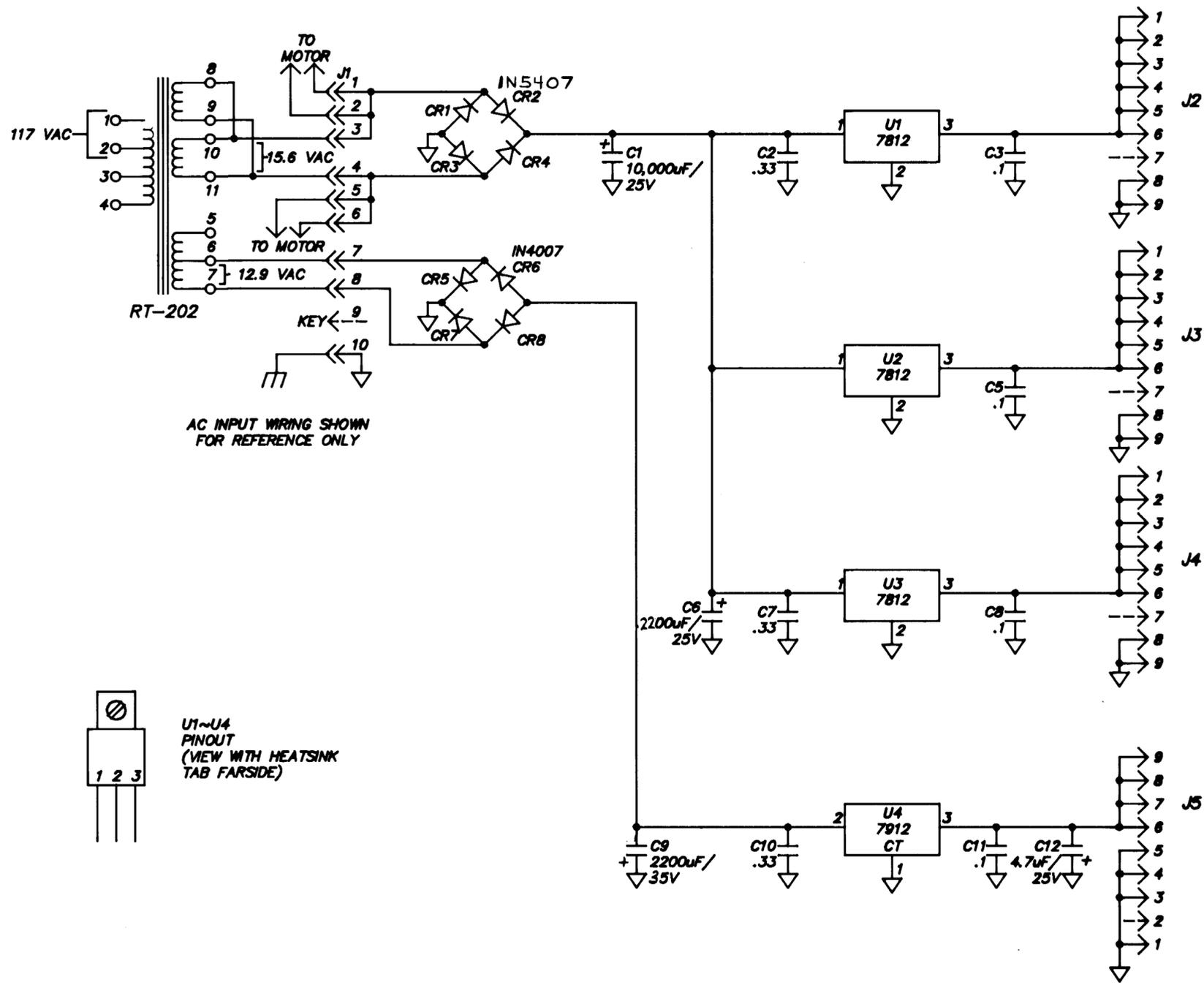
|   |     |   |                        |
|---|-----|---|------------------------|
| <b>ITS CORPORATION</b>  |     |   |                        |
| THIS PRINT IS THE<br>PROPERTY OF ITS CORP.<br>IT SHALL NOT BE COPIED<br>WITHOUT PERMISSION. |     | TITLE   |                        |
|   |     | SCHEMATIC - VHF<br>FILTER, DC MPLX, 50 OHM<br>(1035-1601) |                        |
| REV   | ECN | DATE  | APV                    |
| DWN   | JEO | 7/5/89  | DWG. NO.               |
| CHK   | JCM | 8/1/89  | 1035-3601              |
| REL   | JCM | 8/1/89  | SCALE --- SHEET 1 OF 1 |

**DO NOT REVISE**

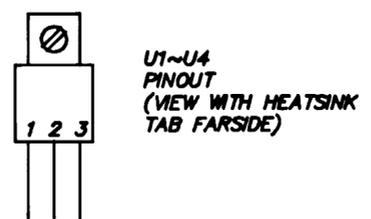


|  |  |     |  |         |  |           |  |   |  |              |  |      |  |     |  |
|--|--|-----|--|---------|--|-----------|--|---|--|--------------|--|------|--|-----|--|
| MISC LABELING  |  |     |  | S3M     |  |           |  | APV   |  |              |  |      |  |     |  |
| 0 2885   |  |     |  | 1-11-91 |  |           |  | APV   |  |              |  |      |  |     |  |
| REV  |  |     |  | ECN     |  |           |  | DATE  |  |              |  |      |  |     |  |
| FINISH   |  |     |  | ---     |  |           |  | ---   |  |              |  |      |  |     |  |
| REL  |  |     |  | Jcm     |  |           |  | 1-11-91   |  |              |  |      |  |     |  |
| <b>ITS CORPORATION</b><br>THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION. |  |     |  |         |  |           |  | REV   |  | ECN          |  | DATE |  | APV |  |
| TITLE  |  |     |  |         |  |           |  | SCHEMATIC - LOW NOISE VHF AMPLIFIER (1035-1701) |  |              |  |      |  |     |  |
| DWN  |  | JEO |  | 9/17/87 |  | DWG. NO.  |  |   |  | REV          |  |      |  |     |  |
| CHK  |  | WB  |  | 9/24/87 |  | 1035-3701 |  |   |  | 0            |  |      |  |     |  |
| REL  |  | Jcm |  | 1-11-91 |  | A         |  | SCALE --  |  | SHEET 1 OF 1 |  |      |  |     |  |

**DO NOT REVISE**

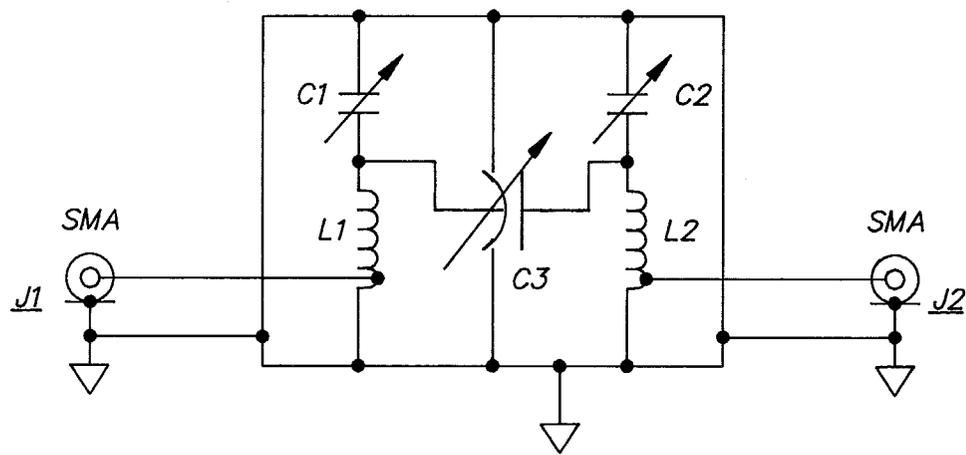


AC INPUT WIRING SHOWN FOR REFERENCE ONLY



|                                    |  |  |  |  |  |                  |  |                 |  |      |  |                        |  |
|------------------------------------|--|--|--|--|--|------------------|--|-----------------|--|------|--|------------------------|--|
| CHANGED POLARITY OF C9 TO GND. JED |  | THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION. |  | TITLE  |  | REV              |  | ECN             |  | DATE |  | APV                    |  |
| L 248 1/1-23-90 RE                 |  | O 2383 1/1-22-89 VFB   |  | +12V(3A)/-12V<br>POWER SUPPLY BOARD<br>(1092-1206) |  | DWN JEO 12/17/87 |  | DWC NO.         |  | REV  |  | 1                      |  |
| C6 WAS \$3.000UF. JED              |  | REV ECN DATE APV   |  | MATERIAL   |  | FINISH           |  | REL WB 11-22-89 |  | C    |  | SCALE --- SHEET 1 OF 1 |  |
|                                    |  |  |  |  |  |                  |  |                 |  |      |  |                        |  |

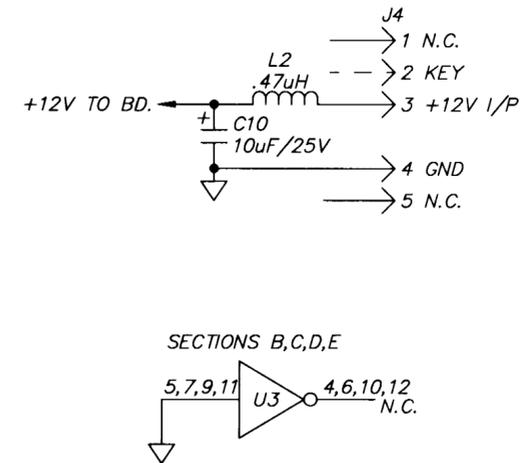
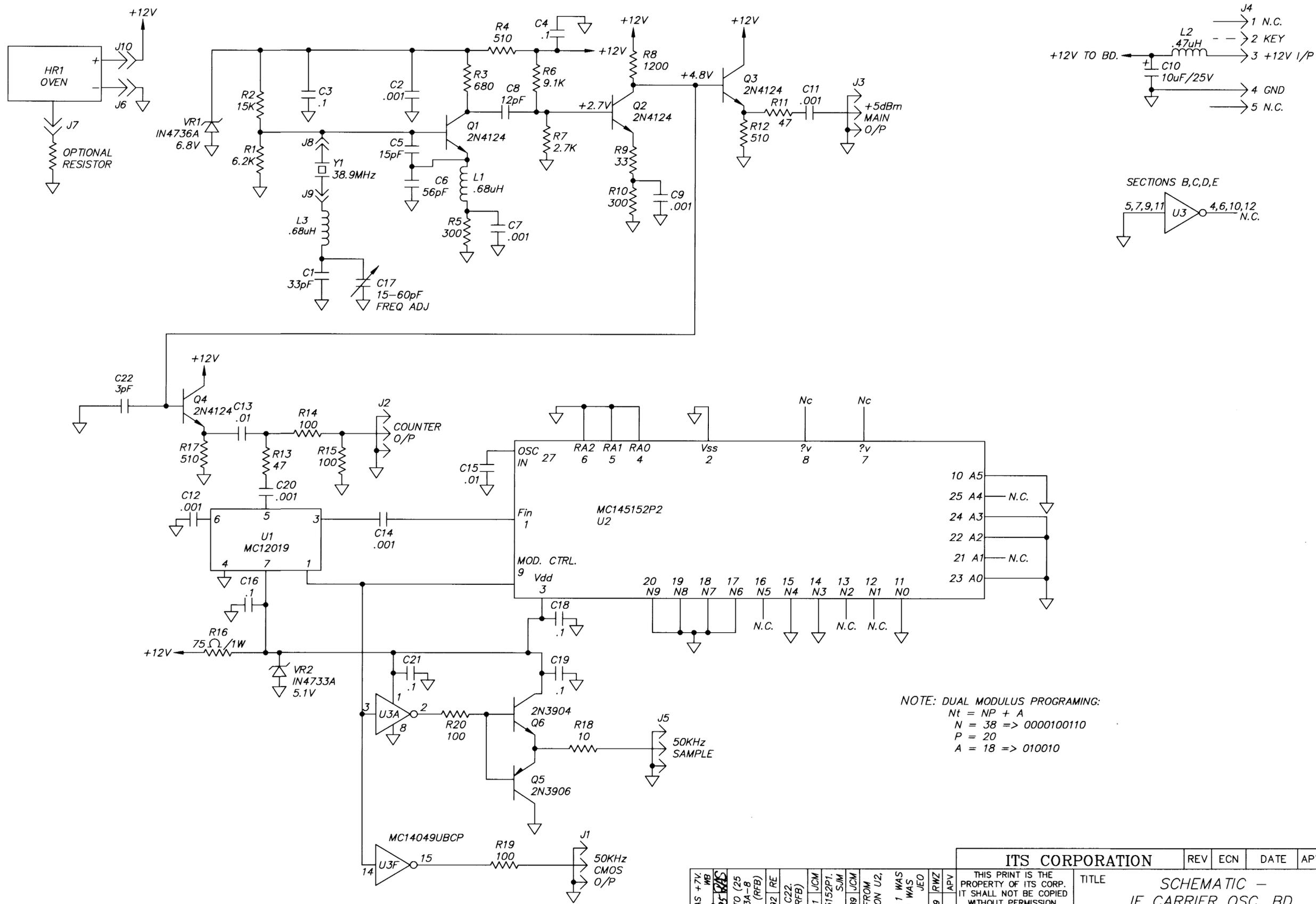
DO NOT REVISE



L1, L2 - 6 TURN #14 AWG WIRE .5" DIA.  
 C1, C2 - .8~10pF  
 C3 - 1.5~6pF

|                        |     |      |     |  |     |        |           |  |              |  |  |
|------------------------|-----|------|-----|--|-----|--------|-----------|--|--------------|--|--|
| <b>ITS CORPORATION</b> |     |      |     | REV  | ECN | DATE   | APV       |  |              |  |  |
| REV                    | ECN | DATE | APV | THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION. |     |        |           | TITLE SCH. - VHF CHAN.<br>FILTER, 2 SECTION HIGH BAND<br>(1093-1202) |              |  |  |
|                        |     |      |     |  |     |        |           |  |              |  |  |
| FINISH                 |     |      |     | DWN  | JEO | 4/5/90 | DWG. NO.  | REV  |              |  |  |
| -----                  |     |      |     | CHK  | DWB | 4-5-90 | 1093-3202 | 0  |              |  |  |
| -----                  |     |      |     | REL  | DWB | 4-5-90 | A         | SCALE ---  | SHEET 1 OF 1 |  |  |

**DO NOT REVISE**

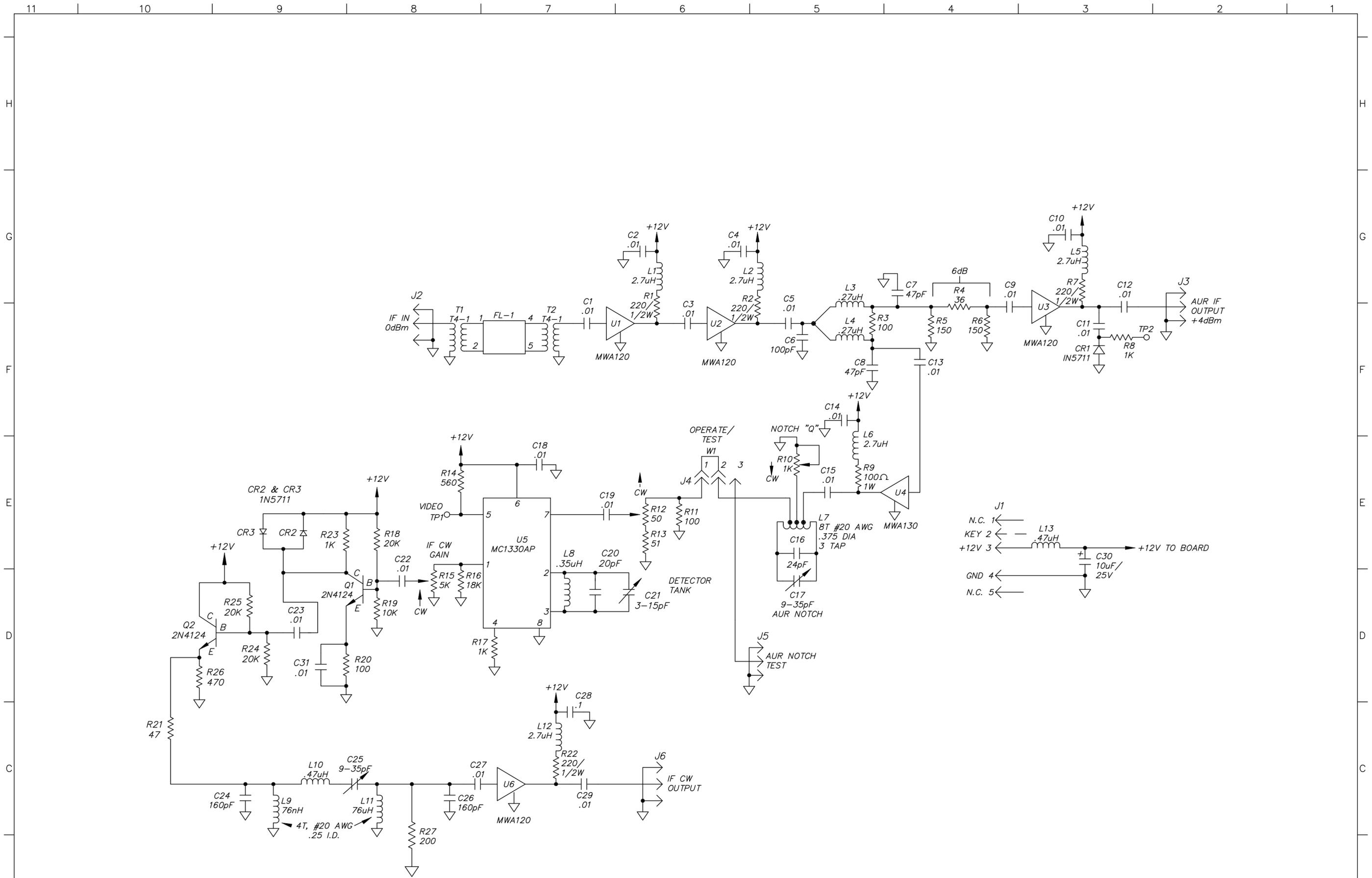


NOTE: DUAL MODULUS PROGRAMMING:  
 $N_t = N_P + A$   
 $N = 38 \Rightarrow 0000100110$   
 $P = 20$   
 $A = 18 \Rightarrow 010010$

DO NOT REVISE

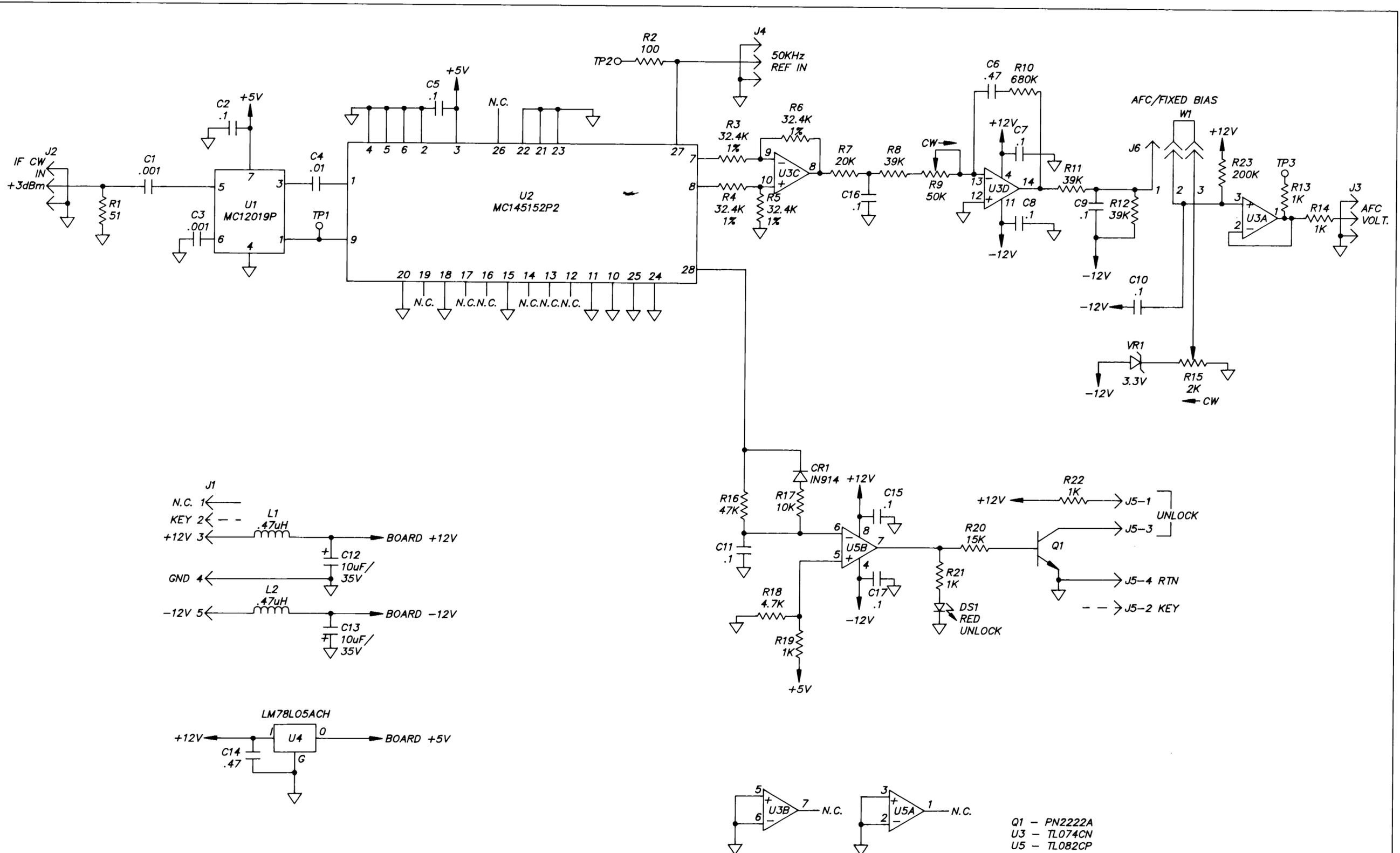
|                     |  |  |  |                    |  |  |  |                  |  |  |  |                     |  |  |  |                   |  |  |  |
|---------------------|--|--|--|--------------------|--|--|--|------------------|--|--|--|---------------------|--|--|--|-------------------|--|--|--|
| +4.8V AT Q3 WAS +7V |  |  |  | WB                 |  |  |  | REV              |  |  |  | DATE                |  |  |  | APV               |  |  |  |
| 4                   |  |  |  | 14382              |  |  |  | 9/29/88          |  |  |  | JCM                 |  |  |  | JCM               |  |  |  |
| ADDED N.C. TO (25   |  |  |  | A4) AND AT U3A-B   |  |  |  | WAS U3A-4. (RFB) |  |  |  | 3                   |  |  |  | 1772              |  |  |  |
| ADDED L3, & C22     |  |  |  | (RFB)              |  |  |  | 2                |  |  |  | 13134               |  |  |  | 6/6/91            |  |  |  |
| U2 WAS MC145152P1.  |  |  |  | SJM                |  |  |  | 1                |  |  |  | 12082               |  |  |  | 7/24/89           |  |  |  |
| REMOVED A'S FROM    |  |  |  | PIN NUMBERS ON U2, |  |  |  | ADDED ? TO       |  |  |  | PINS 7&8, PIN 1 WAS |  |  |  | FIN AND PIN 9 WAS |  |  |  |
| MOC.                |  |  |  | JEO                |  |  |  | 0                |  |  |  | ---                 |  |  |  | 3/8/89            |  |  |  |
| REV                 |  |  |  | ECN                |  |  |  | DATE             |  |  |  | APV                 |  |  |  | DATE              |  |  |  |
| FINISH              |  |  |  | ---                |  |  |  | DWN              |  |  |  | JEO                 |  |  |  | 11/3/88           |  |  |  |
| REL                 |  |  |  | RWZ                |  |  |  | 3/10/89          |  |  |  | C                   |  |  |  | SCALE ---         |  |  |  |
| SHEET               |  |  |  | 1 OF 1             |  |  |  | TITLE            |  |  |  | SCHEMATIC -         |  |  |  | REV               |  |  |  |
| IF CARRIER OSC. BD. |  |  |  | 38.9MHz            |  |  |  | (1100-1206)      |  |  |  | DWC. NO.            |  |  |  | 1100-3206         |  |  |  |
| 4                   |  |  |  | 4                  |  |  |  | 4                |  |  |  | 4                   |  |  |  | 4                 |  |  |  |

|                   |  |  |  |                       |  |  |  |                        |  |  |  |                     |  |  |  |           |  |  |  |
|-------------------|--|--|--|-----------------------|--|--|--|------------------------|--|--|--|---------------------|--|--|--|-----------|--|--|--|
| ITS CORPORATION   |  |  |  | REV                   |  |  |  | ECN                    |  |  |  | DATE                |  |  |  | APV       |  |  |  |
| THIS PRINT IS THE |  |  |  | PROPERTY OF ITS CORP. |  |  |  | IT SHALL NOT BE COPIED |  |  |  | WITHOUT PERMISSION. |  |  |  | TITLE     |  |  |  |
| MATERIAL          |  |  |  | ---                   |  |  |  | DWN                    |  |  |  | JEO                 |  |  |  | 11/3/88   |  |  |  |
| FINISH            |  |  |  | ---                   |  |  |  | CHK                    |  |  |  | JCM                 |  |  |  | 11/10/88  |  |  |  |
| REL               |  |  |  | RWZ                   |  |  |  | 3/10/89                |  |  |  | C                   |  |  |  | SCALE --- |  |  |  |
| SHEET             |  |  |  | 1 OF 1                |  |  |  | DWC. NO.               |  |  |  | 1100-3206           |  |  |  | REV       |  |  |  |
| 4                 |  |  |  | 4                     |  |  |  | 4                      |  |  |  | 4                   |  |  |  | 4         |  |  |  |



|  |         |
|--|---------|
| CHANGED C17 & C25 FROM 9-35 TO 9-35pF ADDED R27.       | RE (MM) |
| 4 1790 5/3/95  | RE      |
| MADE EXTENSIVE CHANGES.                                | (RFB)   |
| 3 1736 9/1/92  | DWB     |
| C21 WAS 3-15pF. (RFB)                                  | (RFB)   |
| 2 3139 6/7/91  | JCM     |
| C7 WAS .47pF, W1 WAS P1, C28 WAS .01, ADDED uH TO L10. | (RFB)   |
| SUM  |         |
| 1 2263 11/15/89  | JCM     |
| 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<br>SCHEMATIC-<br>IF FILTER/LIMITER BD.<br>(1109-1001)                        |     |         |           |           |              |
| DWN  | JEO | 3/10/89 | DWG. NO.  | REV       |              |
| CHK  | DWB | 3/10/89 | 1109-3001 | 4         |              |
| REL  | DWB | 3/10/89 | C         | SCALE --- | SHEET 1 OF 1 |



Q1 - PN2222A  
 U3 - TL074CN  
 U5 - TL082CP

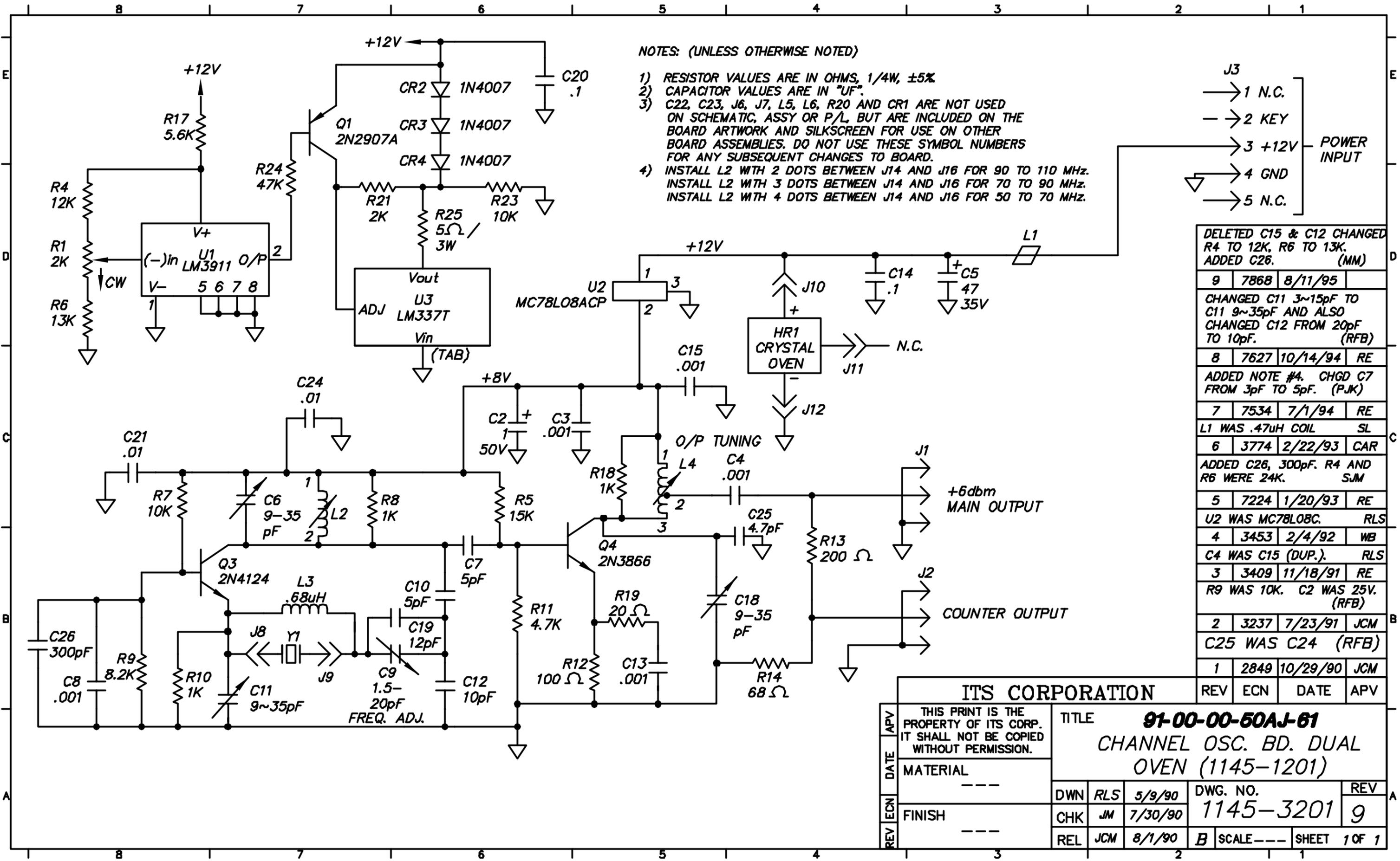
| ITS CORPORATION  |  |  |  | REV   | ECN | DATE                   | APV |
|--|--|--|--|---|-----|------------------------|-----|
| THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION. |  |  |  | TITLE: SCHEMATIC - IF PLL BOARD (1109-1002) |     |                        |     |
| MATERIAL: -----  |  |  |  | DWG. NO. 1109-3002                          |     | REV 3                  |     |
| FINISH: -----  |  |  |  | REL DWB 6/29/89 C                           |     | SCALE --- SHEET 1 OF 1 |     |

| REV | ECN | DATE          | APV |
|-----|-----|---------------|-----|
| 1   |     | 2262/10/16/89 | JCM |
| 2   |     | 3283/8/21/91  | JCM |
| 3   |     | 7138/8/18/92  | DWB |

ADDED R23 AND VR1.  
 R15 WAS 10K, C9 & R12 WENT TO GND. DD

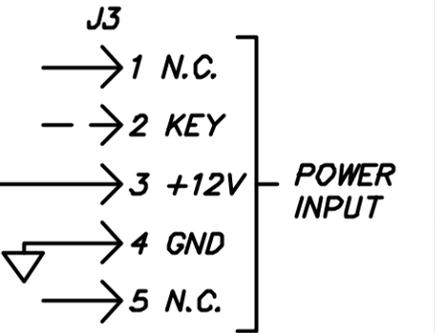
DELETED EXTRA -J1 LABEL CHANGED +12V AT R15 TO -12V. U2 PIN 22 WAS N.C. (RFB)

MISC. LABELING CHGS. ADDED UNUSED PORTIONS OF U5.



NOTES: (UNLESS OTHERWISE NOTED)

- 1) RESISTOR VALUES ARE IN OHMS, 1/4W, ±5%
- 2) CAPACITOR VALUES ARE IN "UF".
- 3) C22, C23, J6, J7, L5, L6, R20 AND CR1 ARE NOT USED ON SCHEMATIC, ASSY OR P/L, BUT ARE INCLUDED ON THE BOARD ARTWORK AND SILKSCREEN FOR USE ON OTHER BOARD ASSEMBLIES. DO NOT USE THESE SYMBOL NUMBERS FOR ANY SUBSEQUENT CHANGES TO BOARD.
- 4) INSTALL L2 WITH 2 DOTS BETWEEN J14 AND J16 FOR 90 TO 110 MHz. INSTALL L2 WITH 3 DOTS BETWEEN J14 AND J16 FOR 70 TO 90 MHz. INSTALL L2 WITH 4 DOTS BETWEEN J14 AND J16 FOR 50 TO 70 MHz.

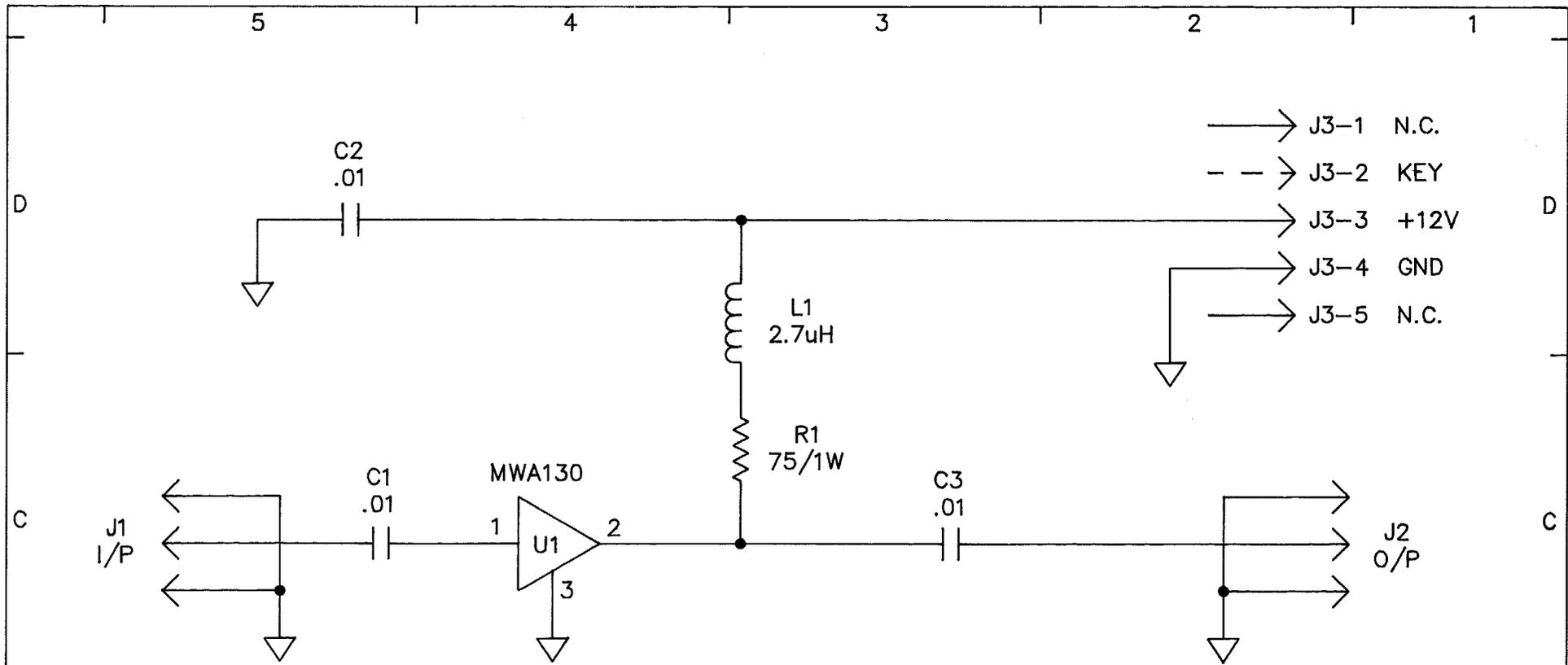


DELETED C15 & C12 CHANGED R4 TO 12K, R6 TO 13K. ADDED C26. (MM)

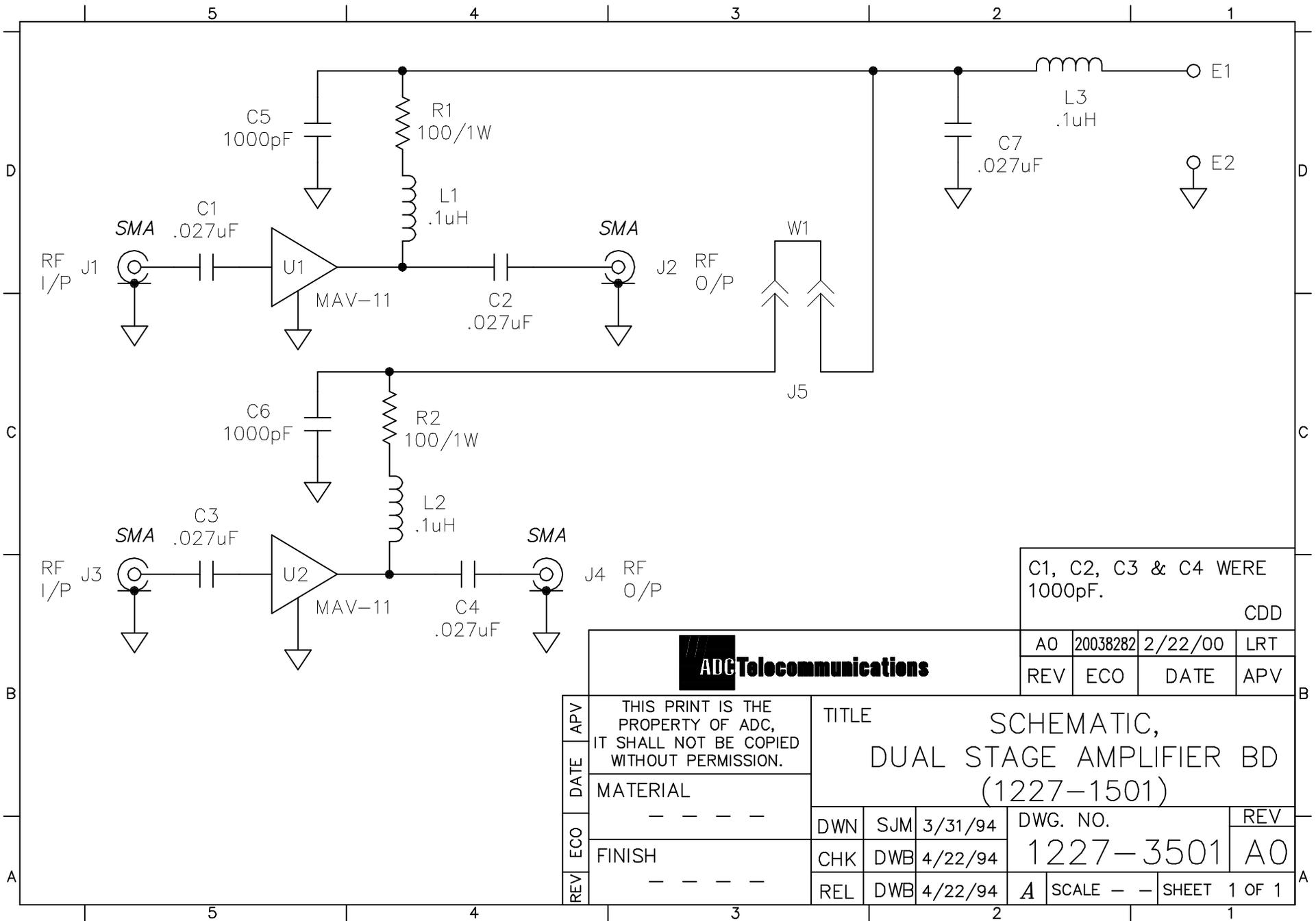
|  |      |          |     |
|--|------|----------|-----|
| 9  | 7868 | 8/11/95  |     |
| CHANGED C11 3~15pF TO C11 9~35pF AND ALSO CHANGED C12 FROM 20pF TO 10pF. (RFB) |      |          |     |
| 8  | 7627 | 10/14/94 | RE  |
| ADDED NOTE #4. CHGD C7 FROM 3pF TO 5pF. (PJK)                                  |      |          |     |
| 7  | 7534 | 7/1/94   | RE  |
| L1 WAS .47uH COIL SL   |      |          |     |
| 6  | 3774 | 2/22/93  | CAR |
| ADDED C26, 300pF. R4 AND R6 WERE 24K. SJM                                      |      |          |     |
| 5  | 7224 | 1/20/93  | RE  |
| U2 WAS MC78L08C. RLS   |      |          |     |
| 4  | 3453 | 2/4/92   | WB  |
| C4 WAS C15 (DUP.). RLS   |      |          |     |
| 3  | 3409 | 11/18/91 | RE  |
| R9 WAS 10K. C2 WAS 25V. (RFB)  |      |          |     |
| 2  | 3237 | 7/23/91  | JCM |
| C25 WAS C24 (RFB)  |      |          |     |
| 1  | 2849 | 10/29/90 | JCM |

ITS CORPORATION

|  |     |  |           |          |              |
|--|-----|--|-----------|----------|--------------|
| THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION. |     | TITLE<br><b>91-00-00-50AJ-61</b><br>CHANNEL OSC. BD. DUAL OVEN (1145-1201) |           |          |              |
| REV  | ECN | DATE   | APV       |          |              |
| DWN  | RLS | 5/9/90   | DWG. NO.  |          | REV          |
| CHK  | JM  | 7/30/90  | 1145-3201 |          | 9            |
| REL  | JCM | 8/1/90   | B         | 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<br><i>SCHEMATIC -<br/>IF AMPLIFIER BD. HIGH<br/>GAIN (1197-1126)</i> |                              |           |                 |
|                 |                | MATERIAL<br>----   |     |  |                              |           |                 |
| ECN             | FINISH<br>---- | DWN  | RFB | 10/5/93  | DWG. NO.<br><i>1197-3126</i> |           | REV<br><i>0</i> |
| REL             |                | DWB  |     | 10-7-93  | A                            | SCALE---- | SHEET 1 OF 1    |

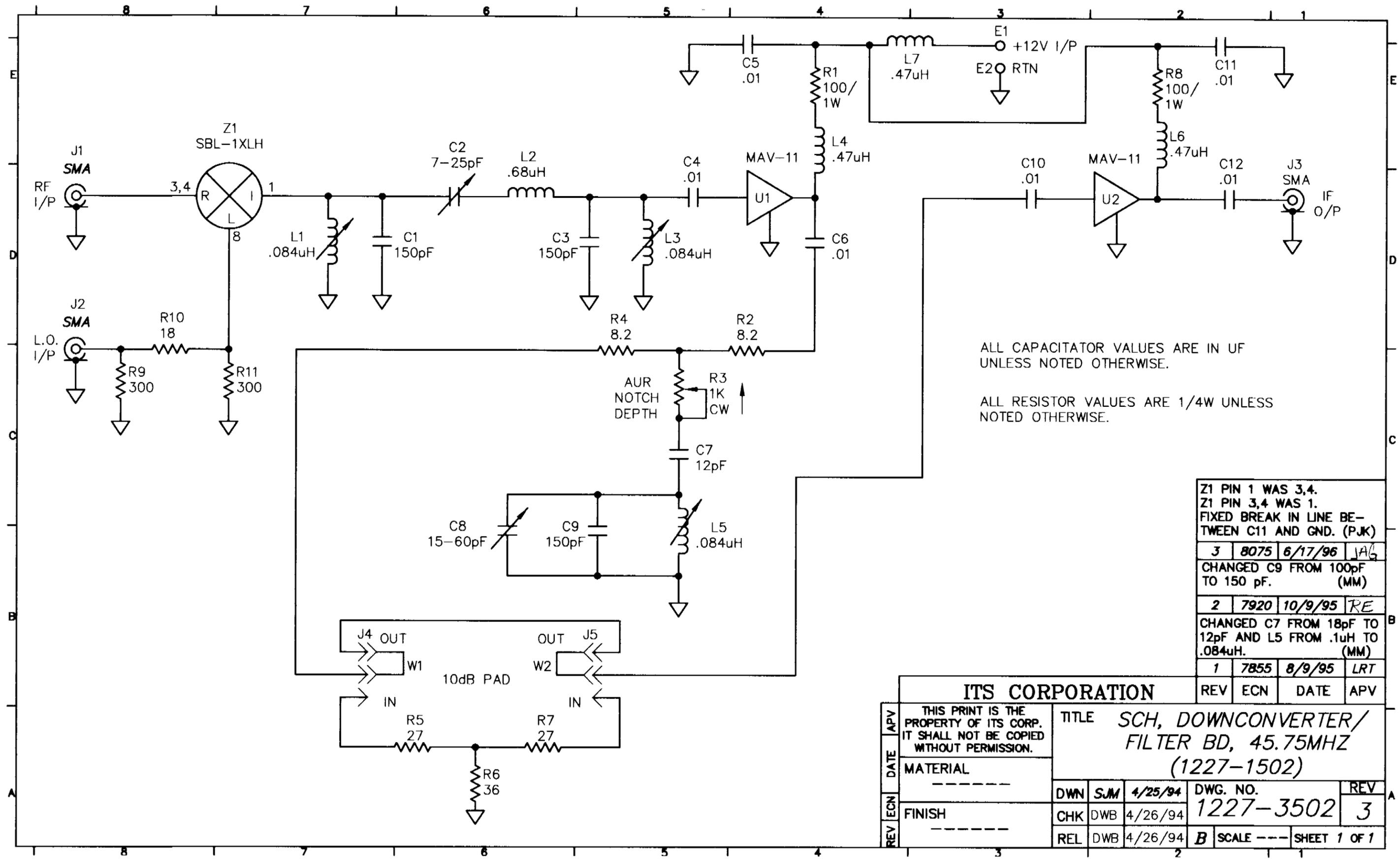


|                              |          |         |     |
|------------------------------|----------|---------|-----|
| C1, C2, C3 & C4 WERE 1000pF. |          |         |     |
| CDD                          |          |         |     |
| A0                           | 20038282 | 2/22/00 | LRT |
| REV                          | ECO      | DATE    | APV |



|        |     |      |     |  |     |         |           |
|--------|-----|------|-----|--|-----|---------|-----------|
| REV    | ECO | DATE | APV | TITLE  |     |         |           |
|        |     |      |     | SCHEMATIC,<br>DUAL STAGE AMPLIFIER BD<br>(1227-1501) |     |         |           |
| FINISH | --- | ---  | --- | DWN  | SJM | 3/31/94 | DWG. NO.  |
|        |     |      |     | CHK  | DWB | 4/22/94 | 1227-3501 |
| ---    | --- | ---  | --- | REL  | DWB | 4/22/94 | A         |
|        |     |      |     | SCALE  | --- | SHEET   | 1 OF 1    |

Tue Jul 16 09:03:36 1996



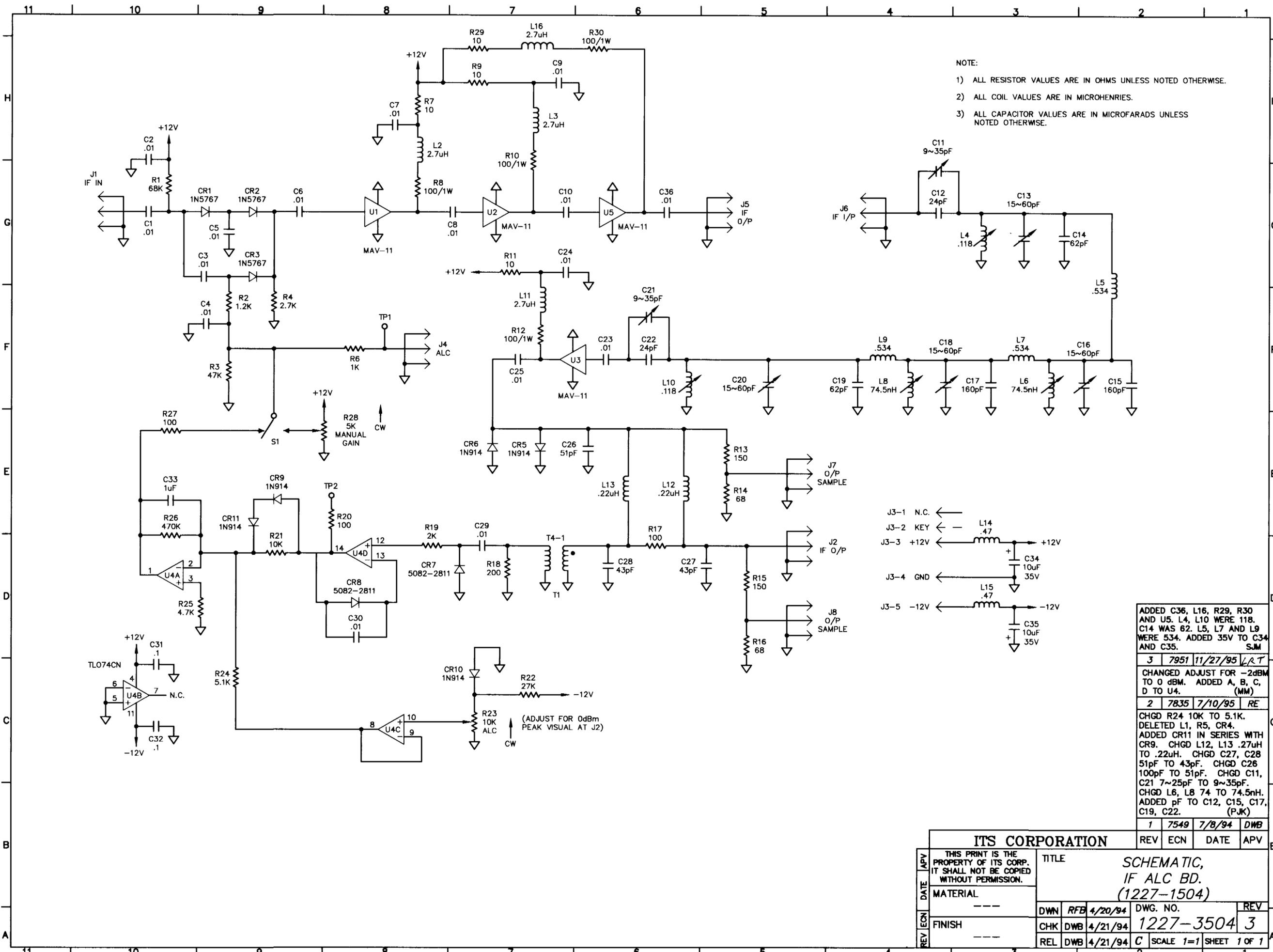
ALL CAPACITOR VALUES ARE IN UF UNLESS NOTED OTHERWISE.

ALL RESISTOR VALUES ARE 1/4W UNLESS NOTED OTHERWISE.

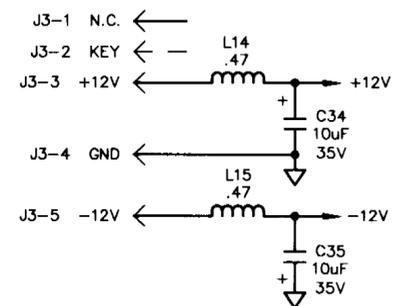
Z1 PIN 1 WAS 3,4.  
Z1 PIN 3,4 WAS 1.  
FIXED BREAK IN LINE BETWEEN C11 AND GND. (PJK)

|   |      |         |     |
|---|------|---------|-----|
| 3   | 8075 | 6/17/96 | JAG |
| CHANGED C9 FROM 100pF TO 150 pF. (MM)                         |      |         |     |
| 2   | 7920 | 10/9/95 | RE  |
| CHANGED C7 FROM 18pF TO 12pF AND L5 FROM .1uH TO .084uH. (MM) |      |         |     |
| 1   | 7855 | 8/9/95  | LRT |

|  |     |   |                          |
|--|-----|---|--------------------------|
| <b>ITS CORPORATION</b>   |     |   |                          |
| THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION. |     | TITLE <b>SCH, DOWNCONVERTER/FILTER BD, 45.75MHZ (1227-1502)</b> |                          |
| REV  | ECN | DATE  | APV                      |
| DWN  | SJM | 4/25/94   | DWG. NO. 1227-3502       |
| CHK  | DWB | 4/26/94   | REV 3                    |
| REL  | DWB | 4/26/94   | B SCALE --- SHEET 1 OF 1 |



NOTE:  
 1) ALL RESISTOR VALUES ARE IN OHMS UNLESS NOTED OTHERWISE.  
 2) ALL COIL VALUES ARE IN MICROHENRIES.  
 3) ALL CAPACITOR VALUES ARE IN MICROFARADS UNLESS NOTED OTHERWISE.



ADDED C36, L16, R29, R30 AND U5. L4, L10 WERE 118. C14 WAS 62. L5, L7 AND L9 WERE 534. ADDED 35V TO C34 AND C35. SJM

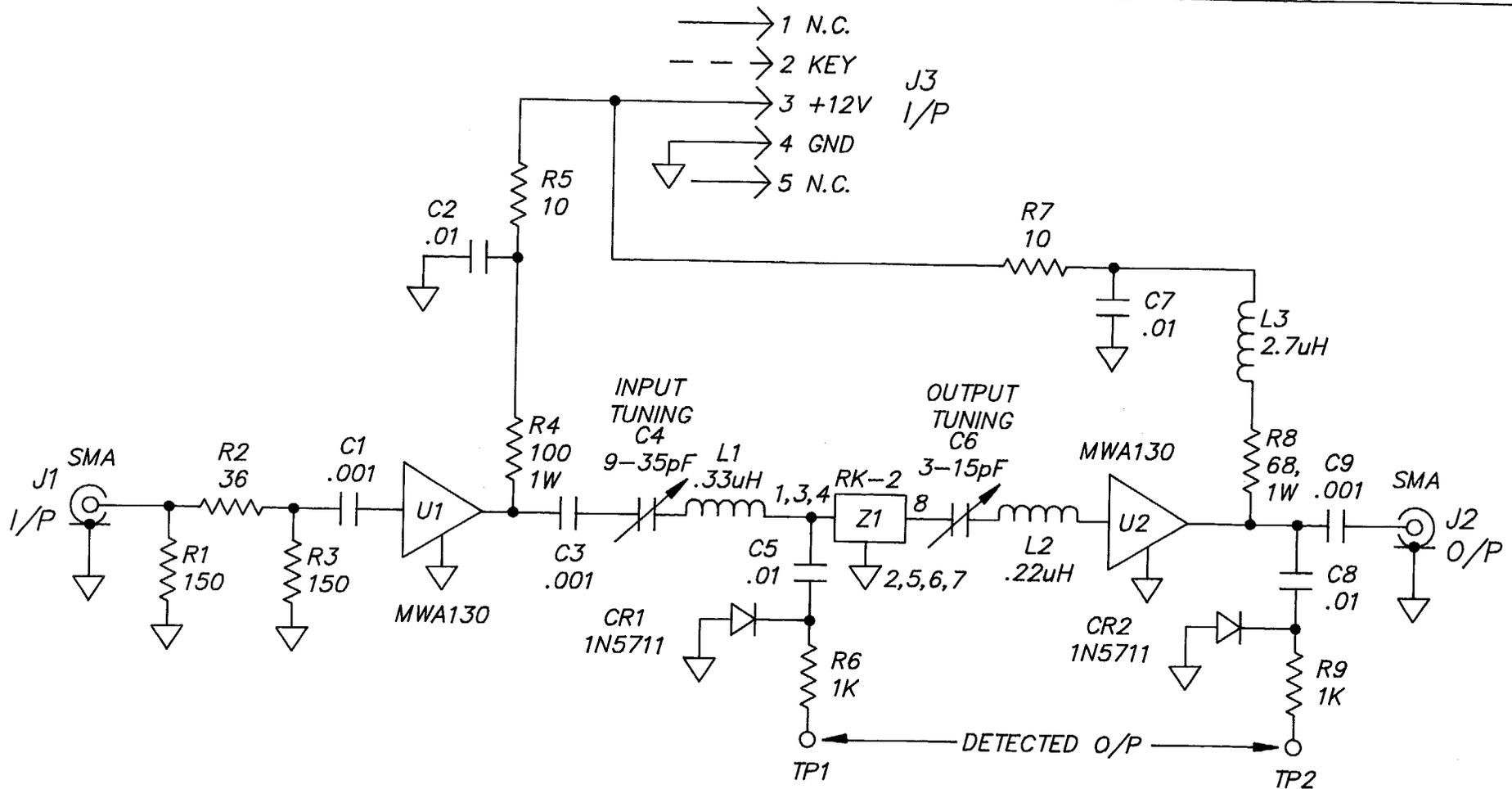
|   |      |          |     |
|---|------|----------|-----|
| 3 | 7951 | 11/27/95 | LAT |
| 2 | 7835 | 7/10/95  | RE  |

CHANGED ADJUST FOR -2dBm TO 0 dBm. ADDED A, B, C, D TO U4. (MM)

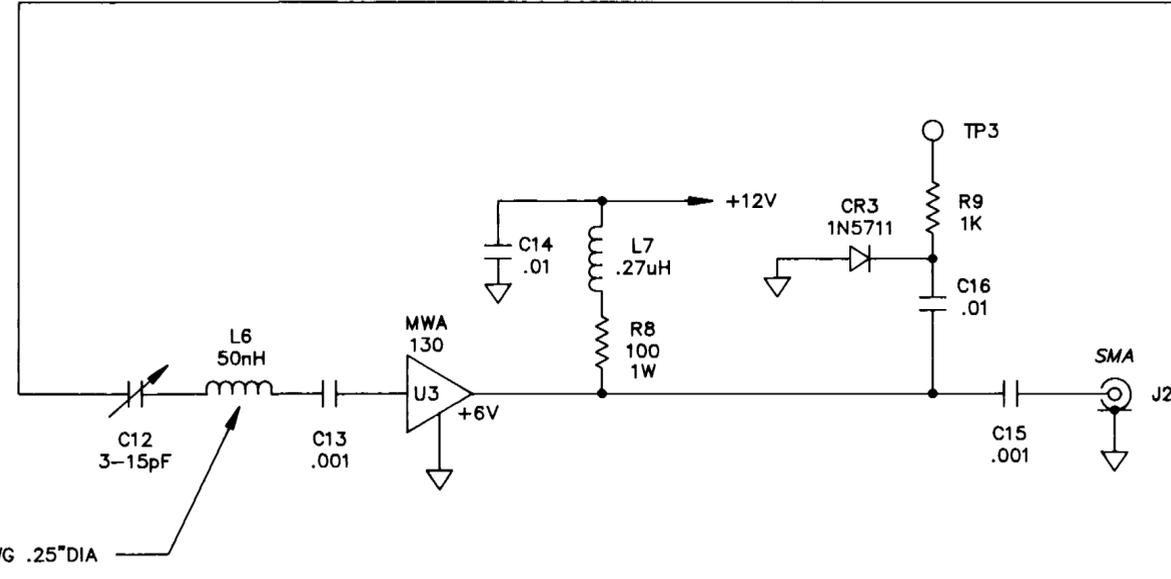
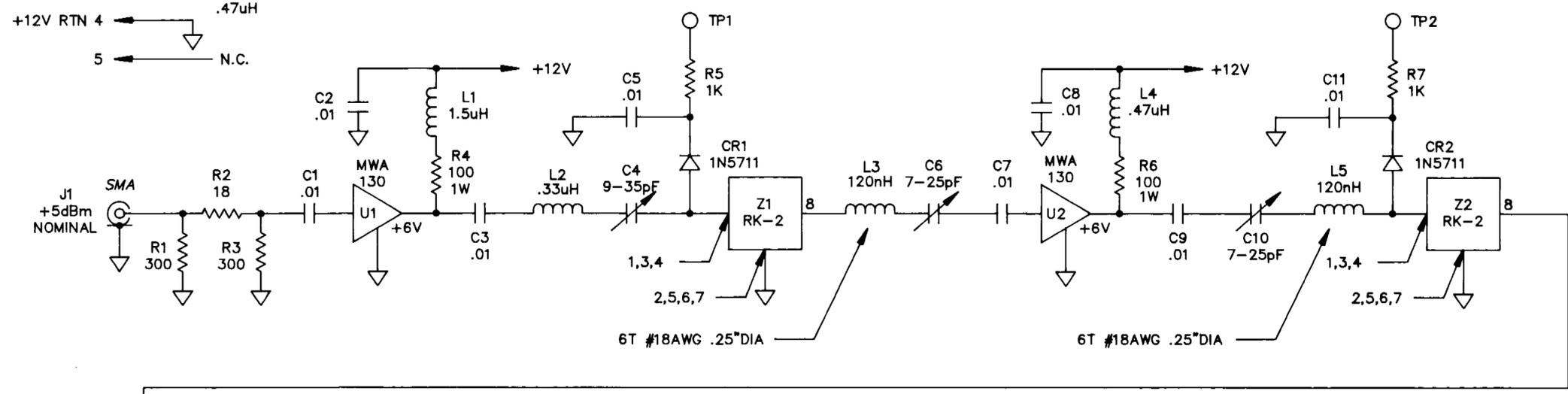
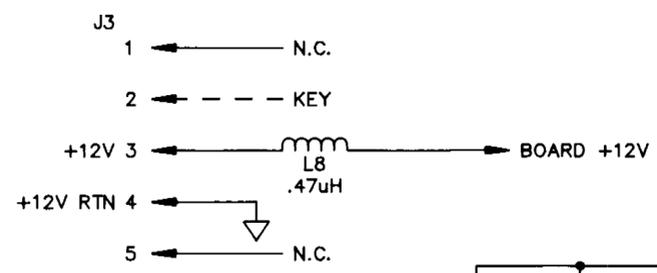
|   |      |        |     |
|---|------|--------|-----|
| 1 | 7549 | 7/8/94 | DWB |
|---|------|--------|-----|

CHGD R24 10K TO 5.1K. DELETED L1, R5, CR4. ADDED CR11 IN SERIES WITH CR9. CHGD L12, L13 .27uH TO .22uH. CHGD C27, C28 51pF TO 43pF. CHGD C26 100pF TO 51pF. CHGD C11, C21 7~25pF TO 9~35pF. CHGD L6, L8 74 TO 74.5nH. ADDED pF TO C12, C15, C17, C19, C22. (PJK)

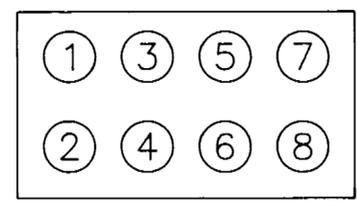
|                        |     |   |              |
|------------------------|-----|---|--------------|
| <b>ITS CORPORATION</b> |     |   |              |
| REV                    | ECN | DATE                                    | APV          |
| ---                    | --- | ---                                     | ---          |
| MATERIAL               |     | TITLE                                   |              |
| ---                    |     | SCHEMATIC,<br>IF ALC BD.<br>(1227-1504) |              |
| DATE                   | APV | DWG. NO.                                | REV          |
| ---                    | --- | 1227-3504                               | 3            |
| FINISH                 | --- | SCALE 1=1                               | SHEET 1 OF 1 |
| ---                    | --- | ---                                     | ---          |



|  |     |      |     |   |     |         |            |              |
|--|-----|------|-----|---|-----|---------|------------|--------------|
| <b>ITS CORPORATION</b>   |     |      |     | REV   | ECN | DATE    | APV        |              |
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|  |     |      |     | MATERIAL  |     |         |            | ---          |
| REV  | ECN | DATE | APV | DWN   | SJM | 5/25/94 | DWG. NO.   | REV          |
|  |     |      |     | CHK   | RE  | 5/31/94 | 1227-3524  | 0            |
|  |     |      |     | REL   | RE  | 5/31/94 | A SCALE--- | SHEET 1 OF 1 |



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

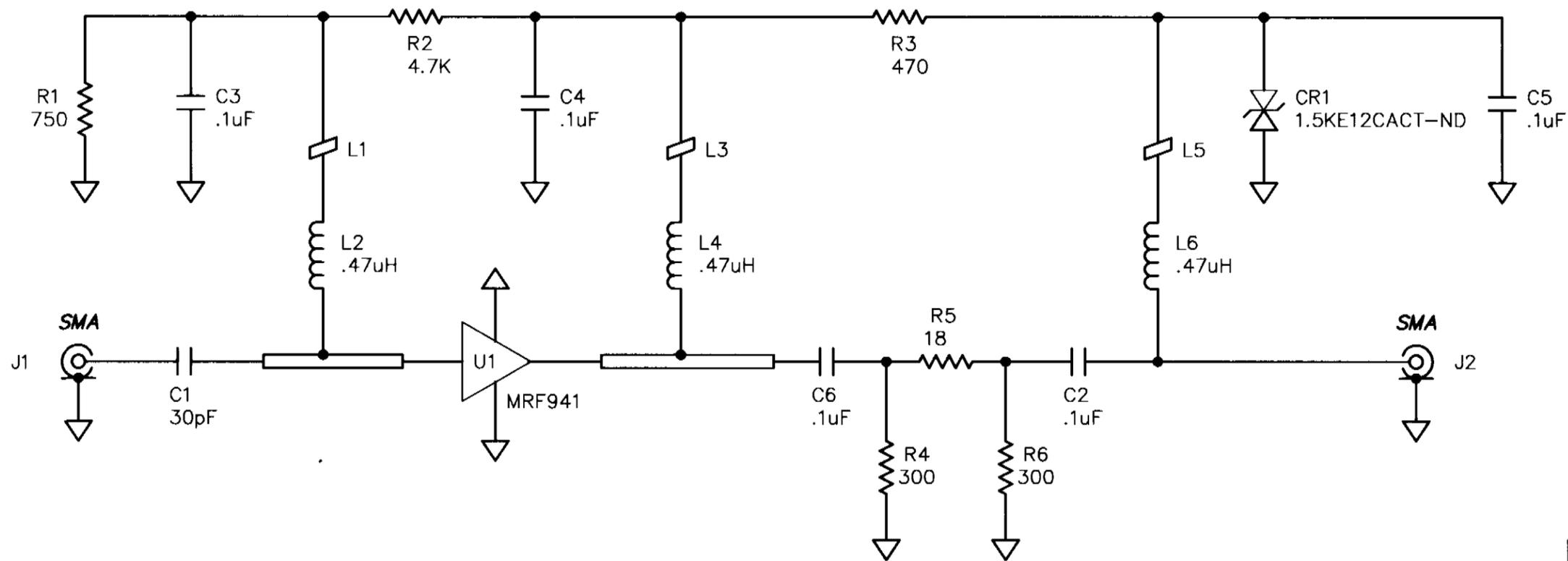


- NOTES:
- 1) ALL RESISTORS SHOWN IN 1/4W UNLESS NOTED OTHERWISE.
  - 2) ALL CAPACITORS SHOWN IN uF UNLESS NOTED OTHERWISE.

CHANGED U3 MWA-330 TO U3 MWA-130. (RFB)

|     |      |        |     |
|-----|------|--------|-----|
| 1   | 7542 | 7/6/94 | RE  |
| REV | ECN  | DATE   | APV |

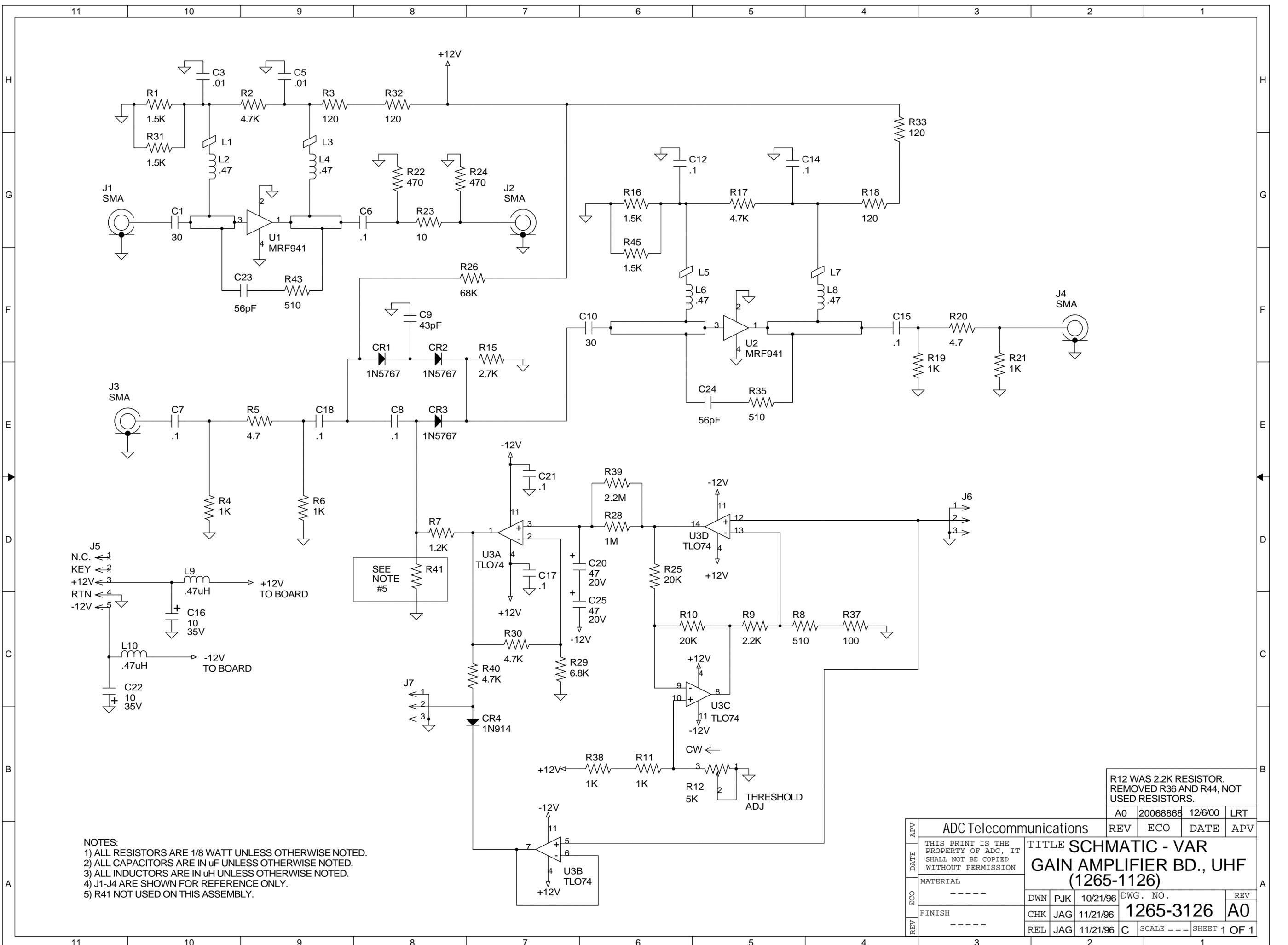
|  |      |     |     |  |           |     |                        |
|--|------|-----|-----|--|-----------|-----|------------------------|
| ITS CORPORATION  |      |     |     | TITLE                                    |           |     |                        |
| THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION. |      |     |     | SCHEMATIC, X4 MULTIPLIER BD. (1227-1525) |           |     |                        |
| REV  | DATE | APV | DWN | DATE                                     | DWG. NO.  | REV |                        |
| ---  | ---  | --- | SJM | 05/24/94                                 | 1227-3525 | 1   |                        |
| FINISH   | ---  | --- | CHK | RE                                       | 5/31/94   |     |                        |
| ---  | ---  | --- | REL | RE                                       | 5/31/94   | C   | SCALE --- SHEET 1 OF 1 |



ADDED C6, R4, R5 & R6 BEFORE C2. CHANGED R3 FROM 620 TO 470. ADDED CR1. (MM)

|     |      |         |     |
|-----|------|---------|-----|
| 1   | 7914 | 10/2/95 | DW  |
| REV | ECN  | DATE    | APV |

|  |     |                             |           |
|--|-----|-----------------------------|-----------|
| <b>ITS CORPORATION</b>   |     |                             |           |
| THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION. |     |                             |           |
| TITLE  |     | SCHEMATIC                   |           |
| MATERIAL   |     | LOW NOISE UHF AMPLIFIER BD. |           |
| FINISH   |     | (1257-1101)                 |           |
| REV  | ECN | DATE                        | REV       |
| DWN  | SJM | 8/4/95                      | DWG. NO.  |
| CHK  | DW  | 8/8/95                      | 1257-3101 |
| REL  | DW  | 8/8/95                      | 1         |
| SCALE  |     | SHEET 1 OF 1                |           |

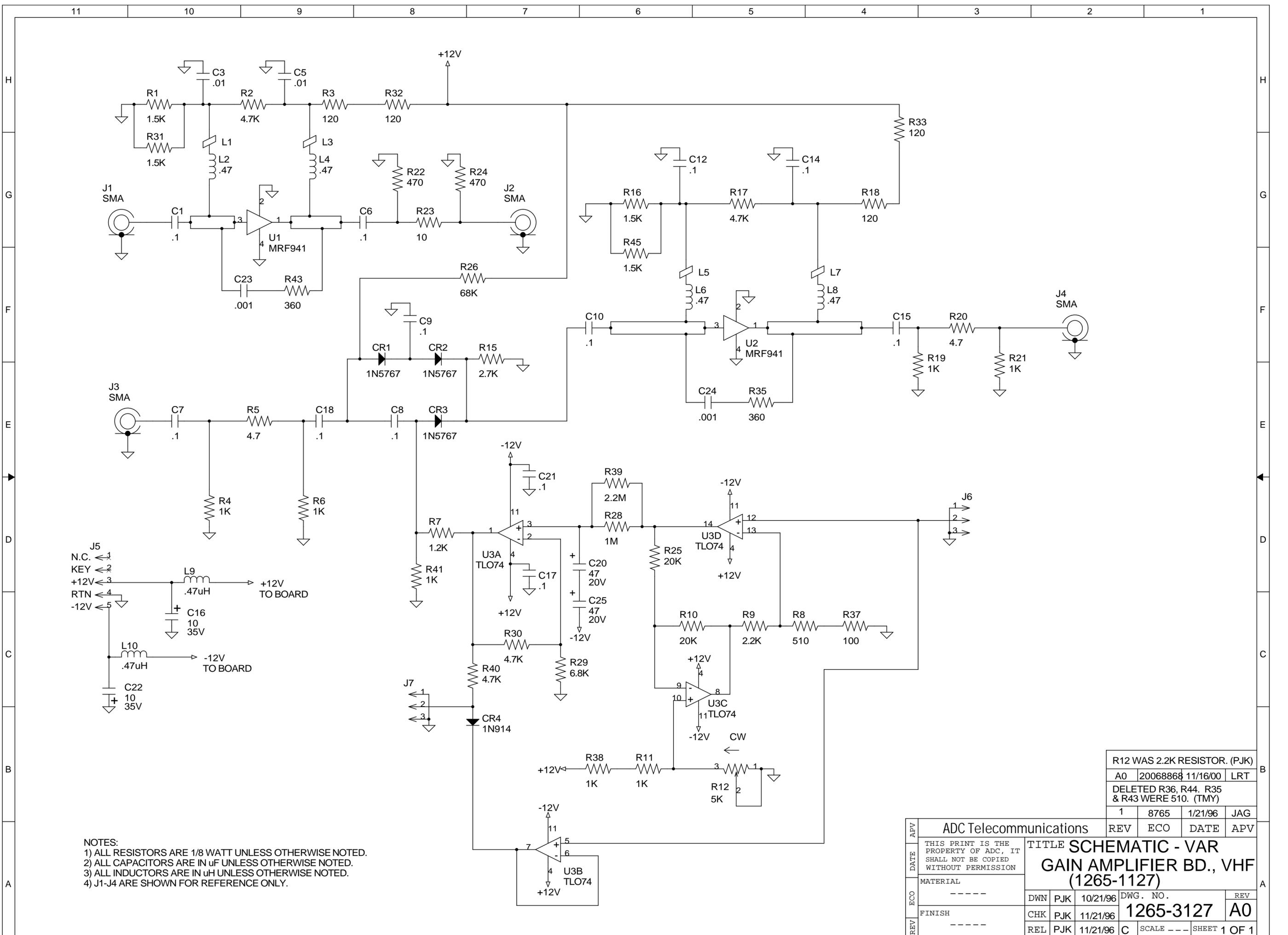


- NOTES:
- 1) ALL RESISTORS ARE 1/8 WATT UNLESS OTHERWISE NOTED.
  - 2) ALL CAPACITORS ARE IN  $\mu\text{F}$  UNLESS OTHERWISE NOTED.
  - 3) ALL INDUCTORS ARE IN  $\mu\text{H}$  UNLESS OTHERWISE NOTED.
  - 4) J1-J4 ARE SHOWN FOR REFERENCE ONLY.
  - 5) R41 NOT USED ON THIS ASSEMBLY.

SEE NOTE #5

R12 WAS 2.2K RESISTOR. REMOVED R36 AND R44, NOT USED RESISTORS.

|      |  |     |          |                  |           |              |
|------|--|-----|----------|------------------|-----------|--------------|
| APV  | ADC Telecommunications   |     | REV      | ECO              | DATE      | APV          |
| DATE | THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION |     |          |                  |           |              |
| ECO  | TITLE <b>SCHMATIC - VAR</b>  |     |          |                  |           |              |
| REV  | GAIN AMPLIFIER BD., UHF (1265-1126)  |     |          |                  |           |              |
|      | DWN  | PJK | 10/21/96 | DWG. NO.         |           | REV          |
|      | CHK  | JAG | 11/21/96 | <b>1265-3126</b> |           | <b>A0</b>    |
|      | REL  | JAG | 11/21/96 | C                | SCALE --- | SHEET 1 OF 1 |



NOTES:  
 1) ALL RESISTORS ARE 1/8 WATT UNLESS OTHERWISE NOTED.  
 2) ALL CAPACITORS ARE IN uF UNLESS OTHERWISE NOTED.  
 3) ALL INDUCTORS ARE IN uH UNLESS OTHERWISE NOTED.  
 4) J1-J4 ARE SHOWN FOR REFERENCE ONLY.

|   |          |          |     |
|---|----------|----------|-----|
| R12 WAS 2.2K RESISTOR. (PJK)                |          |          |     |
| A0  | 20068868 | 11/16/00 | LRT |
| DELETED R36, R44. R35 & R43 WERE 510. (TMY) |          |          |     |
| 1   | 8765     | 1/21/96  | JAG |

|                         |  |                 |  |           |     |                        |     |
|-------------------------|--|-----------------|--|-----------|-----|------------------------|-----|
| APV                     | ADC Telecommunications   |                 |  | REV       | ECO | DATE                   | APV |
| DATE                    | THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION |                 |  |           |     |                        |     |
| ECO                     | MATERIAL   |                 |  |           |     |                        |     |
| REV                     | FINISH   |                 |  |           |     |                        |     |
| TITLE                   |  | SCHEMATIC - VAR |  | DWG. NO.  |     | REV                    |     |
| GAIN AMPLIFIER BD., VHF |  | (1265-1127)     |  | 1265-3127 |     | A0                     |     |
| REL                     |  | PJK             |  | 11/21/96  |     | SCALE --- SHEET 1 OF 1 |     |