

5.4.9 Type 76133 +12V Regulated Power Supply

REF DESIG PREFIX A8

REF DESIG	DESCRIPTION	QTY. PER ASSY.	MANUFACTURER'S PART NO.	MFR. CODE
C1	CAPACITOR, ELECTROLYTIC, ALUMINUM: 450 μ F, -10+75%, 25V	1	39D457G025FJ4	56289
C2	CAPACITOR, ELECTROLYTIC, TANTALUM: 22 μ F, 10%, 35V	1	CS13BF226K	81349
C3	CAPACITOR, ELECTROLYTIC, ALUMINUM: 50 μ F, -10+75%, 50V	1	30D506G050DD2	56289
C4	CAPACITOR, ELECTROLYTIC, TANTALUM: 10 μ F, 10%, 35V	1	CS13BF106K	81349
CR1	DIODE	1	MDA940A-3	04713
CR2	DIODE	1	1N754A	81349
CR3	DIODE	1	1N462A	81349
Q1	TRANSISTOR	1	2N3055	81349
Q2	TRANSISTOR	3	2N4074	81349
Q3	Same as Q2			
Q4	Same as Q2			
R1	RESISTOR, FIXED, COMPOSITION: 47 Ω , 5%, 1/4W	1	RCR07G470JS	81349
R2	RESISTOR, FIXED, COMPOSITION: 6.8 k Ω , 5%, 1/4W	2	RCR07G682JS	81349
R3	Same as R2			
R4	RESISTOR, FIXED, COMPOSITION: 150 k Ω , 5%, 1/4W	1	RCR07G154JS	81349
R5	RESISTOR, FIXED, COMPOSITION: 1 k Ω , 5%, 1/4W	1	RCR07G102JS	81349
R6	RESISTOR, FIXED, COMPOSITION: 2.2 k Ω , 5%, 1/4W	3	RCR07G222JS	81349
R7	RESISTOR, VARIABLE, FILM: 1 k Ω , 10%, .6W	1	310(1k Ω)	75042
R8	RESISTOR, FIXED, COMPOSITION: 3.9 k Ω , 5%, 1/4W	1	RCR07G392JS	81349
R9	Same as R6			
R10	RESISTOR, FIXED, COMPOSITION: 220 Ω , 5%, 1/4W	1	RCR07G221JS	81349
R11	Same as R6			

5.4.10 Type 7680A -12V Regulated Power Supply Board

REF DESIG PREFIX A9

REF DESIG	DESCRIPTION	QTY. PER ASSY.	MANUFACTURER'S PART NO.	MFR. CODE
C1	CAPACITOR, ELECTROLYTIC, ALUMINUM: 450 μ F, -10+75%, 25V	1	39D457G025FJ4	56289
C2	CAPACITOR, ELECTROLYTIC, ALUMINUM: 20 μ F, -10+75%, 50V	2	30D206G050CC2	56289
C3	Same as C2			
CR1	DIODE	2	1N3253	80131
CR2	Same as CR1			
CR3	DIODE	1	1N753A	80131
Q1	TRANSISTOR	1	2N2869	80131
Q2	TRANSISTOR	1	2N526	80131
R1	RESISTOR, FIXED, COMPOSITION: 510 Ω , 5%, 1/4W	2	RCR07G511JS	81349
R2	Same as R1			
R3	RESISTOR, FIXED, COMPOSITION: 33 k Ω , 5%, 1/4W	1	RCR07G333JS	81349
R4	RESISTOR, FIXED, COMPOSITION: 10 k Ω , 5%, 1/4W	1	RCR07G103JS	81349
R5	RESISTOR, FIXED, COMPOSITION: 1.5 k Ω , 5%, 1/4W	2	RCR07G152JS	81349
R6	Same as R5			
R7	RESISTOR, FIXED, COMPOSITION: 100 Ω , 5%, 1/4W	1	RCR07G101JS	81349

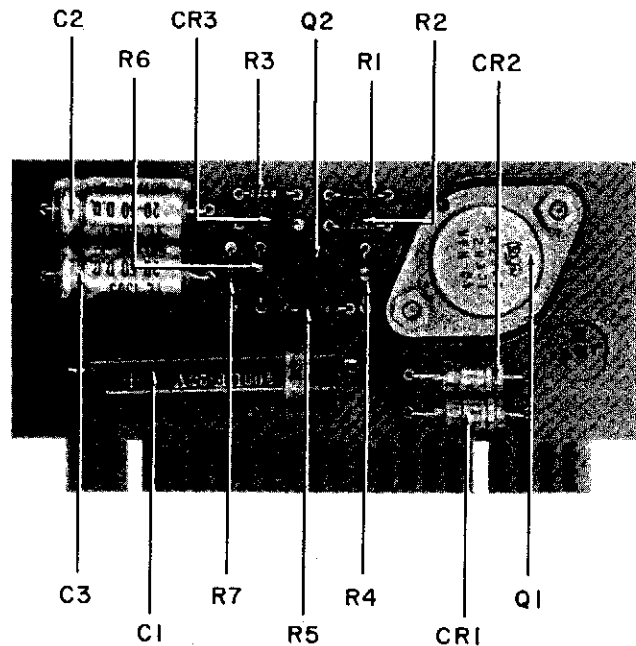


Figure 5-23. Type 7680 -12V Regulated Power Supply, Component Locations

5.4.11 Type 79206 Fine Tuning Regulator

REF DESIG PREFIX A10

REF DESIG	DESCRIPTION	QTY. PER ASSY.	MANUFACTURER'S PART NO.	MFR. CODE
C1	CAPACITOR, ELECTROLYTIC, TANTALUM: 4.7 μ F, 10%,	1	CS13BF475K	81349
CR1	DIODE	1	1N758A	80131
CR2	DIODE	1	1N462A	80131
R1	RESISTOR, FIXED, COMPOSITION: 180 Ω , 5%, 1/4W	1	RCR07G181JS	81349
R2	RESISTOR, FIXED, COMPOSITION: 56 k Ω , 5%, 1/4W	1	RCR07G563JS	81349

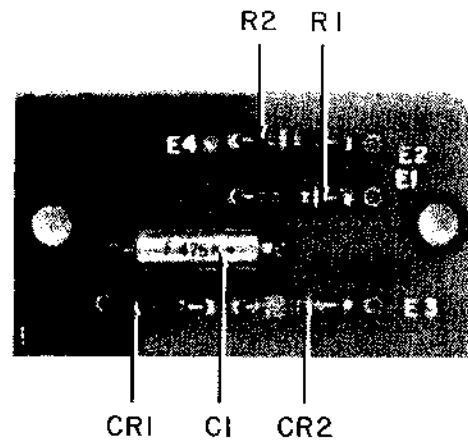


Figure 5-24. Type 79206 Fine Tuning Regulator, Component Locations

REF DESIG PREFIX A11

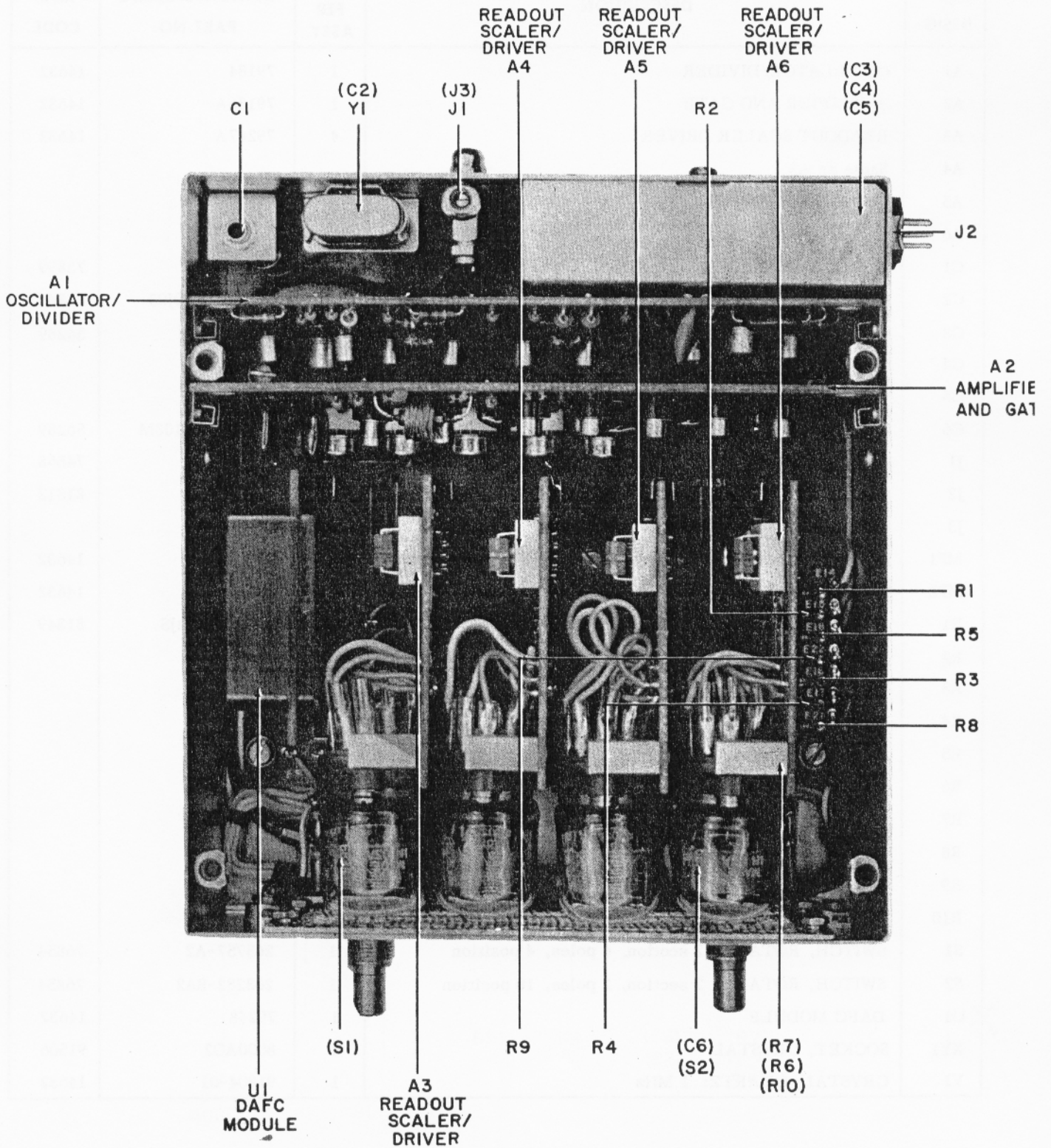


Figure 5-25. Type 79189 VLF Counter Assembly, Component Locations

5.4.12 Type 79189 VLF Counter Assembly

REF DESIG PREFIX A11

REF DESIG	DESCRIPTION	QTY. PER ASSY.	MANUFACTURER'S PART NO.	MFR. CODE
A1	OSCILLATOR/DIVIDER	1	79184	14632
A2	AMPLIFIER AND GATE	1	79186A	14632
A3	READOUT SCALER DRIVER	4	79247A	14632
A4	Same as A3			
A5	Same as A3			
A6	Same as A3			
C1	CAPACITOR, VARIABLE, GLASS: 1-38 pF, 750V	1	NVC24G	73899
C2	CAPACITOR, MICA, DIPPED: 15 pF, 5%, 500V	1	CM04CD150J03	81349
C3	CAPACITOR, PAPER, THRU-PASS: .01 μ F, 20%, 600V	3	102P515	56289
C4	Same as C3			
C5	Same as C3			
C6	CAPACITOR, CERAMIC, DISC: 0.01 μ F, 20%, 100V	1	C023B101F103M	56289
J1	CONNECTOR, JACK, MB SERIES	2	46625	74868
J2	CONNECTOR, RECEPTACLE, MULTIPIN	1	M4P-LRN	81312
J3	Same as J1			
MP1	COVER	1	20939	14632
MP2	FILTER GLASS	1	12584-1	14632
R1	RESISTOR, FIXED, COMPOSITION: 100 k Ω , 5%, 1/8W	10	RCR05G104JS	81349
R2	Same as R1			
R3	Same as R1			
R4	Same as R1			
R5	Same as R1			
R6	Same as R1			
R7	Same as R1			
R8	Same as R1			
R9	Same as R1			
R10	Same as R1			
S1	SWITCH, ROTARY: 2 section, 6 poles, 4 position	1	265757-A2	76854
S2	SWITCH, ROTARY: 2 section, 2 poles, 10 position	1	263282-BA2	76854
U1	DAFC MODULE	1	79248	14632
XY1	SOCKET, CRYSTAL	1	8000AG2	91506
Y1	CRYSTAL, QUARTZ: 1 MHz	1	91804-01	14632

REF DESIG PREFIX A11A1

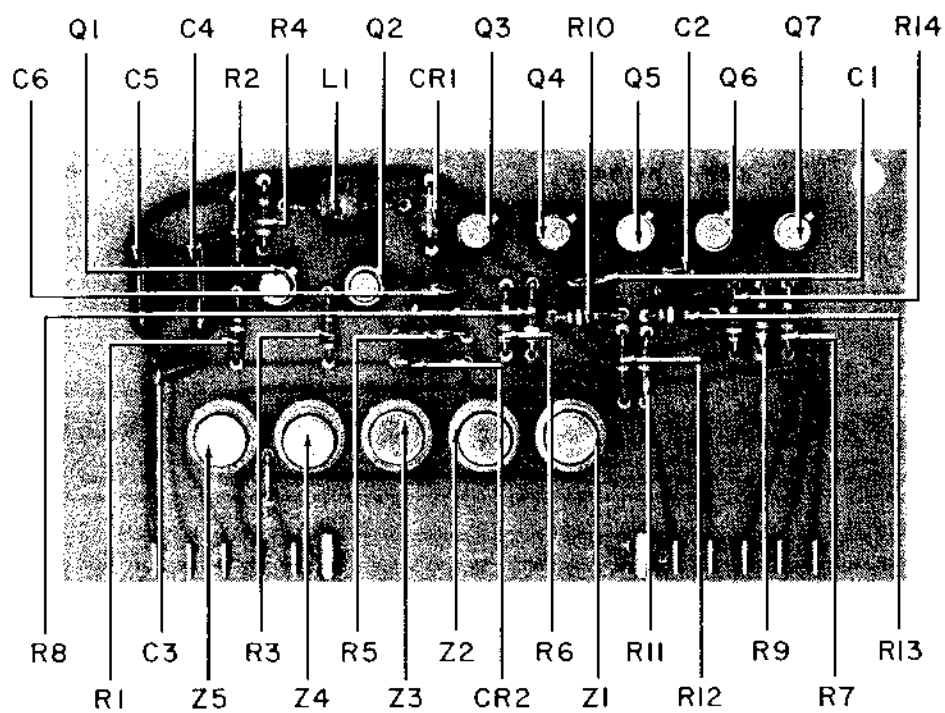


Figure 5-26. Type 79184 Oscillator/Divider, Component Locations

5.4.12.1 Type 79184 Oscillator-Divider

REF DESIG PREFIX A11A1

REF DESIG	DESCRIPTION	QTY. PER ASSY.	MANUFACTURER'S PART NO.	MFR. CODE
C1	CAPACITOR, MICA, DIPPED: 30 pF, 5%, 500V	2	CM04ED300J03	81349
C2	Same as C1			
C3	CAPACITOR, CERAMIC, DISC: 0.1 μ F, +80-20%, 10V	1	UK10-104	71590
C4	CAPACITOR, MICA, DIPPED: 750 pF, 5%, 300V	2	DM15-751J	72136
C5	Same as C4			
C6	CAPACITOR, MICA, DIPPED: 62 pF, 5%, 500V	1	CM04ED620J03	81349
CR1	DIODE	1	1N198A	80131
CR2	DIODE	1	1N4003	80131
L1	COIL, FIXED: 430 μ H	1	3430-15	99848
Q1	TRANSISTOR	1	2N929	80131
Q2	TRANSISTOR	1	2N3251	80131
Q3	TRANSISTOR	5	2N706	80131
Q4	Same as Q3			
Q5	Same as Q3			
Q6	Same as Q3			
Q7	Same as Q3			
R1	RESISTOR, FIXED, COMPOSITION: 100 k Ω , 5%, 1/4W	1	RCR07G104JS	81349
R2	RESISTOR, FIXED, COMPOSITION: 150 k Ω , 5%, 1/4W	1	RCR07G154JS	81349
R3	RESISTOR, FIXED, COMPOSITION: 330 Ω , 5%, 1/4W	1	RCR07G331JS	81349
R4	RESISTOR, FIXED, COMPOSITION: 3.3 k Ω , 5%, 1/4W	4	RCR07G332JS	81349
R5	RESISTOR, FIXED, COMPOSITION: 1 k Ω , 5%, 1/4W	1	RCR07G102JS	81349
R6	Same as R4			
R7	Same as R4			
R8	RESISTOR, FIXED, COMPOSITION: 390 Ω , 5%, 1/4W	2	RCR07G391JS	81349
R9	Same as R4			
R10	RESISTOR, FIXED, COMPOSITION: 3.9 k Ω , 5%, 1/4W	2	RCR07G392JS	81349
R11	RESISTOR, FIXED, COMPOSITION: 22 k Ω , 5%, 1/4W	2	RCR07G223JS	81349
R12	Same as R11			
R13	Same as R10			
R14	Same as R8			
Z1	INTEGRATED CIRCUIT	5	U5B995879X	07263
Z2	Same as Z1			
Z3	Same as Z1			
Z4	Same as Z1			
Z5	Same as Z1			

REF DESIG PREFIX A11A2

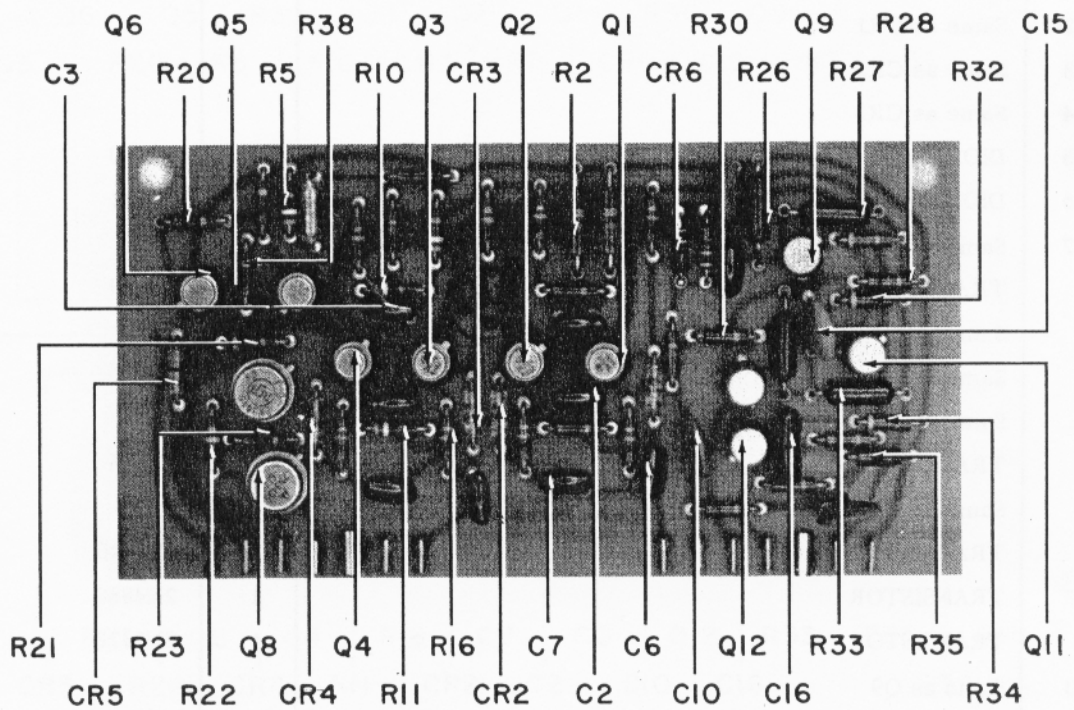
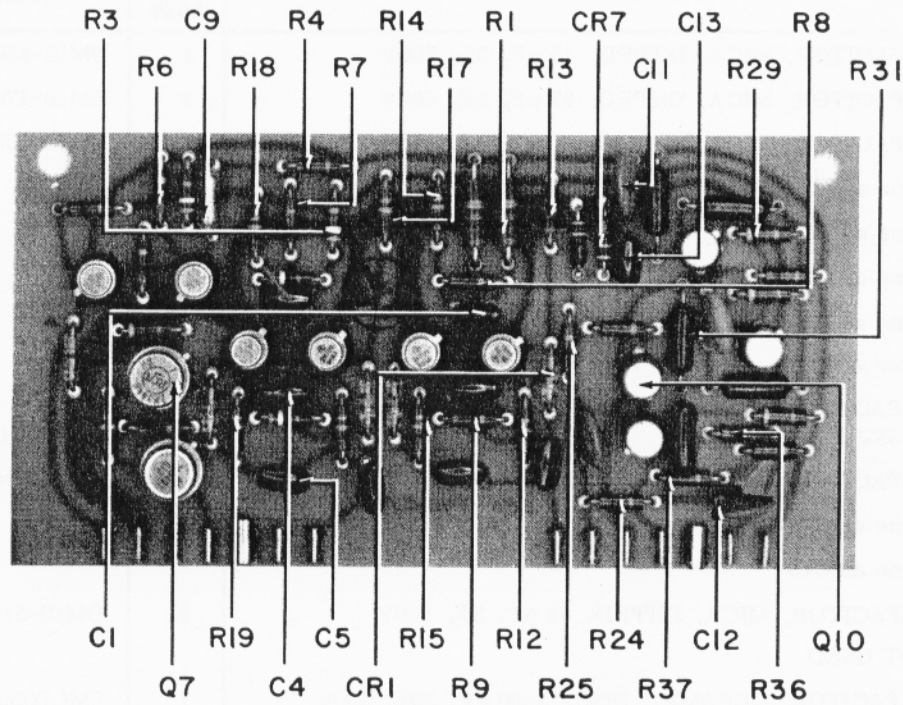


Figure 5-27. Type 79186 Amplifier and Gate, Component Locations

5.4.12.2 Type 79186A Amplifier and Gate

REF DESIG PREFIX A11A2

REF DESIG	DESCRIPTION	QTY. PER ASSY.	MANUFACTURER'S PART NO.	MFR. CODE
C1	CAPACITOR, MICA, DIPPED: 15 pF, 5%, 500V	1	DM10-150J	72136
C2	CAPACITOR, MICA, DIPPED: 27 pF, 5%, 500V	3	DM10-270J	72136
C3	CAPACITOR, MICA, DIPPED: 30 pF, 5%, 500V	4	DM10-300J	72136
C4	Same as C3			
C5	Same as C3			
C6	Same as C2			
C7	Same as C2			
C8	Same as C3			
C9	CAPACITOR, ELECTROLYTIC, TANTALUM: 1.0 μ F, 10%, 35V	1	CS13BF105K	81349
C10	CAPACITOR, CERAMIC, DISC: 0.1 μ F, +80-20%, 10V	3	UK10-104	71590
C11	Same as C10			
C12	Same as C10			
C13	CAPACITOR, MICA, DIPPED: 51 pF, 5%, 500V	1	DM10-510J	72136
C14	NOT USED			
C15	CAPACITOR, CERAMIC, DISC: 5000 pF, 20%, 500V	1	SM(.005 μ F, 20%)	91418
C16	CAPACITOR, MICA, DIPPED: 300 pF, 5%, 500V	1	DM15-301J	72136
CR1	DIODE	4	1N198	80131
CR2	Same as CR1			
CR3	Same as CR1			
CR4	Same as CR1			
CR5	DIODE	1	1N270	80131
CR6	DIODE	2	1N914	80131
CR7	Same as CR6			
Q1	TRANSISTOR	4	2N709	80131
Q2	Same as Q1			
Q3	Same as Q1			
Q4	Same as Q1			
Q5	TRANSISTOR	2	2N706	80131
Q6	Same as Q5			
Q7	TRANSISTOR	1	2N3440	80131
Q8	TRANSISTOR	1	2N4888	80131
Q9	TRANSISTOR	4	2N3478	80131
Q10	Same as Q9			
Q11	Same as Q9			

REF DESIG PREFIX A11A2

REF DESIG	DESCRIPTION	QTY. PER ASSY.	MANUFACTURER'S PART NO.	MFR. CODE
Q12	Same as Q9			
R1	RESISTOR, FIXED, COMPOSITION: 120 Ω , 5%, 1/4W	2	RCR20G121JS	81349
R2	Same as R1			
R3	RESISTOR, FIXED, COMPOSITION: 390 Ω , 5%, 1/4W	1	RCR07G391JS	81349
R4	RESISTOR, FIXED, COMPOSITION: 100 Ω , 5%, 1/4W	3	RCR07G101JS	81349
R5	RESISTOR, FIXED, COMPOSITION: 3.9 k Ω , 5%, 1/4W	4	RCR07G392JS	81349
R6	RESISTOR, FIXED, COMPOSITION: 1 k Ω , 5%, 1/4W	5	RCR07G102JS	81349
R7	RESISTOR, FIXED, COMPOSITION: 200 Ω , 5%, 1/4W	1	RCR07G201JS	81349
R8	RESISTOR, FIXED, COMPOSITION: 1.2 k Ω , 5%, 1/4W	2	RCR07G122JS	81349
R9	Same as R8			
R10	Same as R5			
R11	Same as R5			
R12	RESISTOR, FIXED, COMPOSITION: 10 k Ω , 5%, 1/4W	6	RCR07G103JS	81349
R13	Same as R12			
R14	Same as R12			
R15	Same as R12			
R16	Same as R12			
R17	RESISTOR, FIXED, COMPOSITION: 22 k Ω , 5%, 1/4W	2	RCR07G223JS	81349
R18	Same as R17			
R19	Same as R12			
R20	Same as R6			
R21	RESISTOR, FIXED, COMPOSITION: 3.0 k Ω , 5%, 1/4W	1	RCR07G302JS	81349
R22	RESISTOR, FIXED, COMPOSITION: 100 k Ω , 5%, 1/4W	1	RCR07G104JS	81349
R23	Same as R6			
R24	Same as R4			
R25	RESISTOR, FIXED, COMPOSITION: 220 Ω , 5%, 1/4W	1	RCR07G221JS	81349
R26	RESISTOR, FIXED, FILM: 2.67 k Ω , 1%, 1/4W	3	RN60D2671F	81349
R27	Same as R26			
R28	Same as R4			
R29	RESISTOR, FIXED, COMPOSITION: 470 Ω , 5%, 1/4W	1	RCR07G471JS	81349
R30	RESISTOR, FIXED, COMPOSITION: 2.2 k Ω , 5%, 1/4W	2	RCR07G222JS	81349
R31	Same as R26			
R32	Same as R5			
R33	RESISTOR, FIXED, FILM: 2.61 k Ω , 1%, 1/4W	1	RN60D2611F	81349

REF DESIG PREFIX A11A2

REF DESIG	DESCRIPTION	QTY. PER ASSY.	MANUFACTURER'S PART NO.	MFR. CODE
R34	Same as R6			
R35	Same as R30			
R36	RESISTOR, FIXED, COMPOSITION: 1.5 k Ω , 5%, 1/4W	1	RCR07G152JS	81349
R37	RESISTOR, FIXED, COMPOSITION: 270 Ω , 5%, 1/4W	1	RCR07G271JS	81349
R38	Same as R6			