

Figure S-19. Type 724006-X, 21.4 MHz IF Amplifier (A3A9-A3A13), Schematic Diagram 381291(D)

NOTES:

1. UNLESS OTHERWISE SPECIFIED:
  - a) RESISTANCE IS IN OHMS,  $\pm 5\%$ , 1/4W.
  - b) CAPACITANCE IS IN pF.
  - c) INDUCTANCE IS IN  $\mu$ H.
2. DIFFERENCE IN TYPE NO.'S IS SHOWN IN TABLE A (TYPE 726013-1 REPLACED BY TYPE 724006-26).
3. FOR REVISION "C" BOARDS AND ABOVE THE FLI ALT SHOWN IN TABLE A CAN BE USED FOR AN ALTERNATE SOURCE.

TABLE A

TYPE NO.	IF BW	(NOTE FLI 3)	R9	FLI ALT REV. "C" & ABOVE (NOTE 3)
726013-1	500 KHz	92277	820	92288
726013-2	1 MHz	92278	220	92287
726013-3	2 MHz	92279	220	92286
726013-4	4 MHz	92280	220	92285

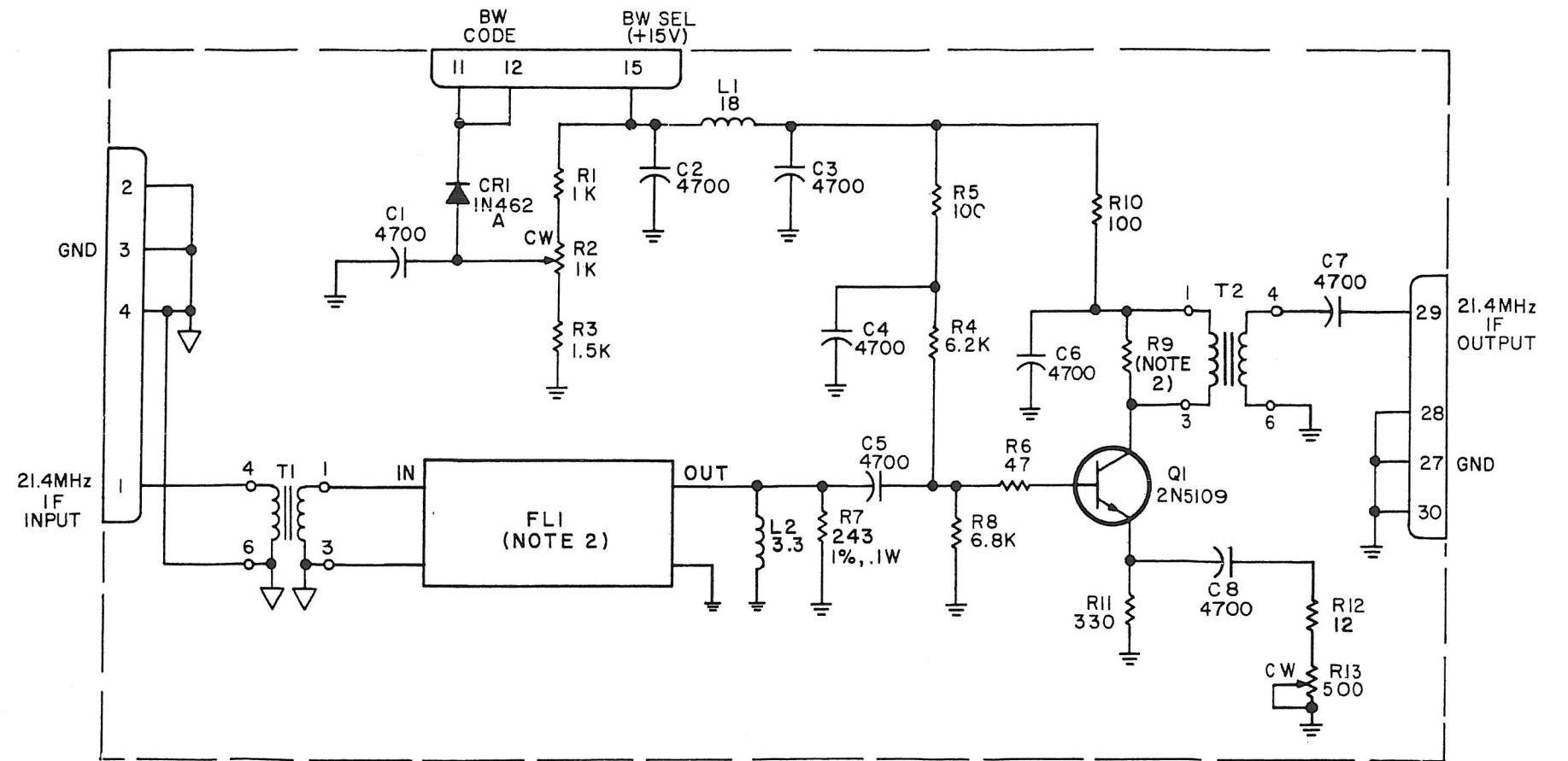
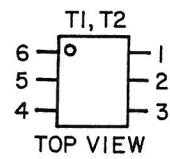


Figure S-20. Type 726013-X, 21.4 MHz IF Amplifier (A3A9-A3A13), Schematic Diagram 380771 (E)

NOTES:  
1. UNLESS OTHERWISE SPECIFIED:  
a) RESISTANCE IS IN OHMS,  $\pm 5\%$ , 1/4W.  
a) CAPACITANCE IS IN pF.

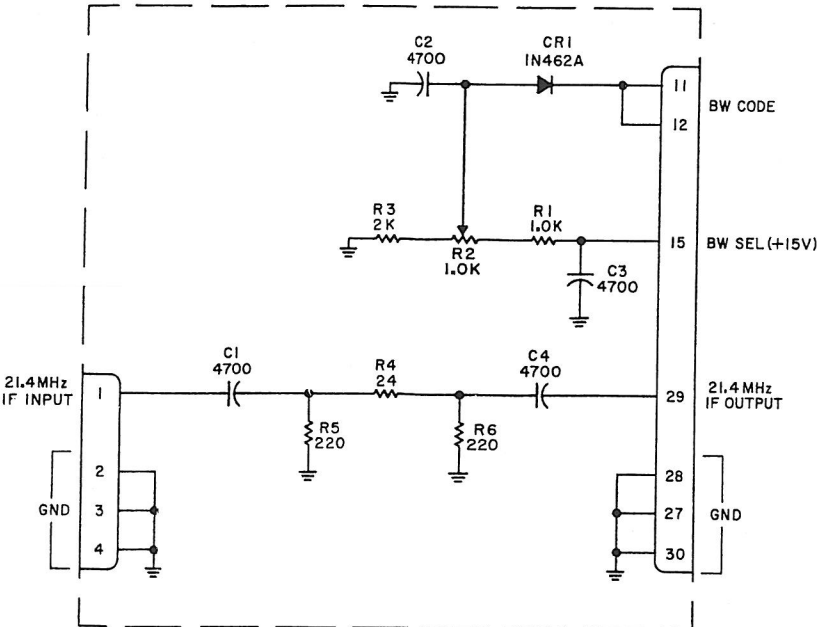


Figure S-21. Type 796337-1, IF Amplifier (8 MHz BW),(A3A9-A3A13), Schematic Diagram 380513 (B)

- NOTES:  
 1. UNLESS OTHERWISE SPECIFIED:  
 C CAPACITANCE IS IN pF.  
 L INDUCTANCE IS IN mH.  
 R RESISTANCE IS IN OHMS, ± 1%, 1/10 W.  
 2. NOMINAL VALUE, FINAL VALUE FACTORY SELECTED.  
 3. FOR TYPE NUMBER DIFFERENCES SEE TABLE A.

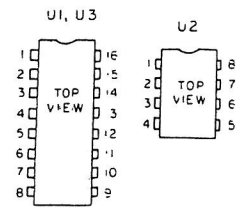


TABLE A

TYPE NO.	BANDWIDTH	C6	C11	C17	L4	L5	R2	R3	Y1	R14	R15
794106-1	10KHz	1. pF	0.1	0.068	22	15	2.37K	1.37K	2378	2.21K	10K
794106-2	20KHz	10pF	0.056	0.056	10	6.8	3.65K	1.62K	2875	2.21K	10K
794106-3	6KHz	15pF	0.1	0.1	47	22	2.37K	1.37K	2378	2.21K	10K
794106-4	40KHz CRYSTAL	10pF	0.018	0.012	4.7	4.7	2.21K	2.21K	2378	2.21K	10K
794106-5	30KHz CRYSTAL	10pF	0.022	0.018	6.8	6.8	2.21K	2.21K	2378	2.21K	10K
794106-6	3.2KHz	15pF	0.1	0.1	22	22	2.37K	1.37K	2378	1.0K	20K
794106-7	25KHz	10pF	0.039	0.039	8.2	6.8	3.65K	1.62K	2875	2.21K	10K
794106-8	15KHz	12pF	0.056	0.056	15	10	3.01K	1.5K	2875	2.21K	10K
794106-9	50KHz CRYSTAL	15pF	0.018	0.018	4.7	4.7	2.37K	9.09K	3099	2.21K	20K
794106-10	1.5KHz	15pF	0.56	0.56	150	150	2.37K	1.37K	2378	1.82K	50K
794106-11	4KHz	15pF	0.22	0.22	47	47	2.37K	1.37K	2378	1.0K	20K

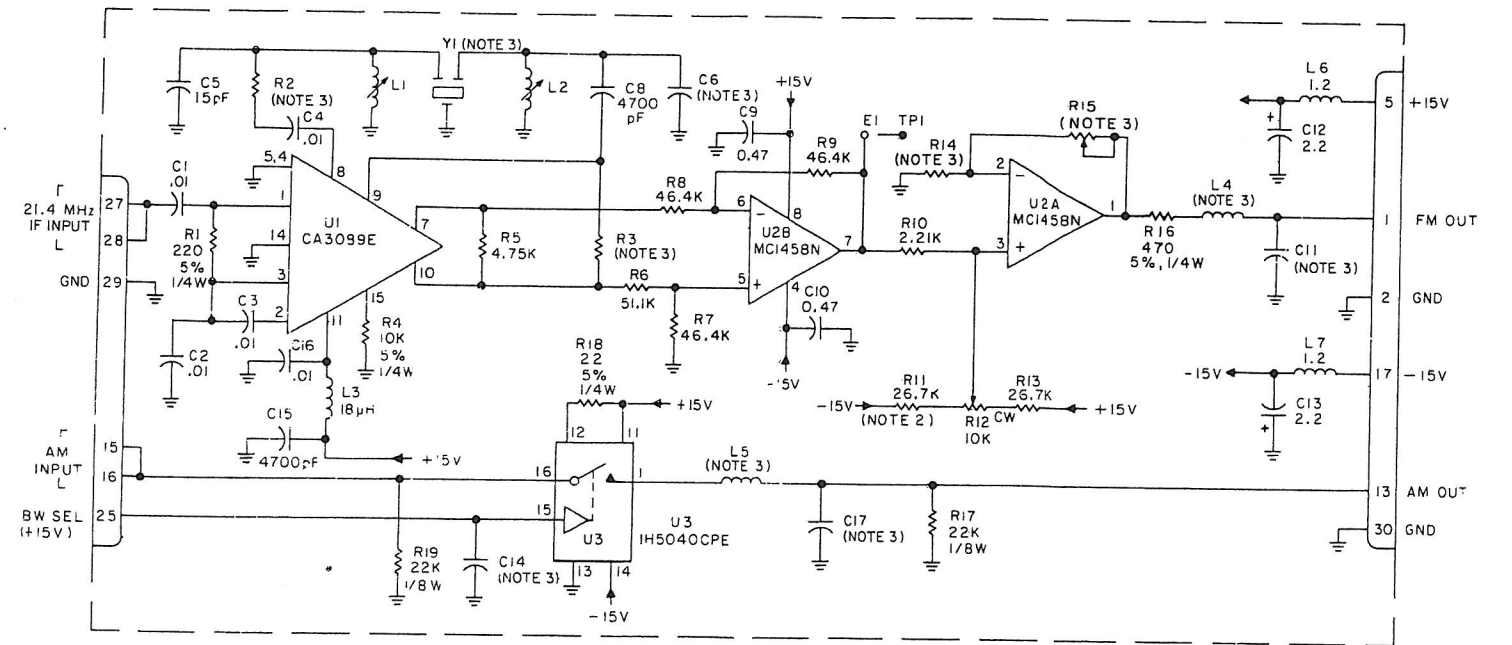


Figure S-22. Type 794106-X, FM Demodulator (A3A17-A3A21), Schematic Diagram 481279 (R)

- NOTES:  
 1. UNLESS OTHERWISE SPECIFIED:  
 a) RESISTANCE IS IN OHMS, ±5%, 1/4W.  
 b) CAPACITANCE IS IN μF.  
 c) INDUCTANCE IS IN mH.  
 2. DIFFERENCE BETWEEN TYPES IS SHOWN IN TABLE A.  
 3. DASHES IN TABLE A = NOT USED.

TABLE A

TYPE	BW	C12	C16	C19	L3	L4	R2	U2	U3
794107-1	50KHz	.018	.012	—	4.7	3.3	4.75K, 1%, .1W	741HC	741HC
-2	100KHz	.01	6800pF	4.7pF	2.2	1.5	1.21K, 1%, .1W	LM318H	LM318H
-3	250KHz	3300pF	3300pF	4.7pF	1.0	680μH	453	LM318H	LM318H
-4	300KHz	2700pF	3300pF	4.7pF	820μH	560μH	392	LM318H	LM318H
-5	40KHz	.018	.012	—	4.7	3.3	4.75K, 1%, .1W	741HC	741HC
-6	75KHz	.015	8200pF	4.7pF	3.3	2.2	2.05K, 1%, .1W	LM318H	—
-7	—	—	—	—	—	—	—	—	—
-8	—	—	—	—	—	—	—	—	—
-9	—	—	—	—	—	—	—	—	—
-10	—	—	—	—	—	—	—	—	—
-11	—	—	—	—	—	—	—	—	—
-12	—	—	—	—	—	—	—	—	—
-13	60KHz	.015	.015	—	3.3	3.3	4.75K, 1%, .1W	741HC	LM318H
-14	150 KHz	6800pF	6800pF	4.7pF	1.5	1.5	1.21K, 1%, .1W	LM318H	LM318H

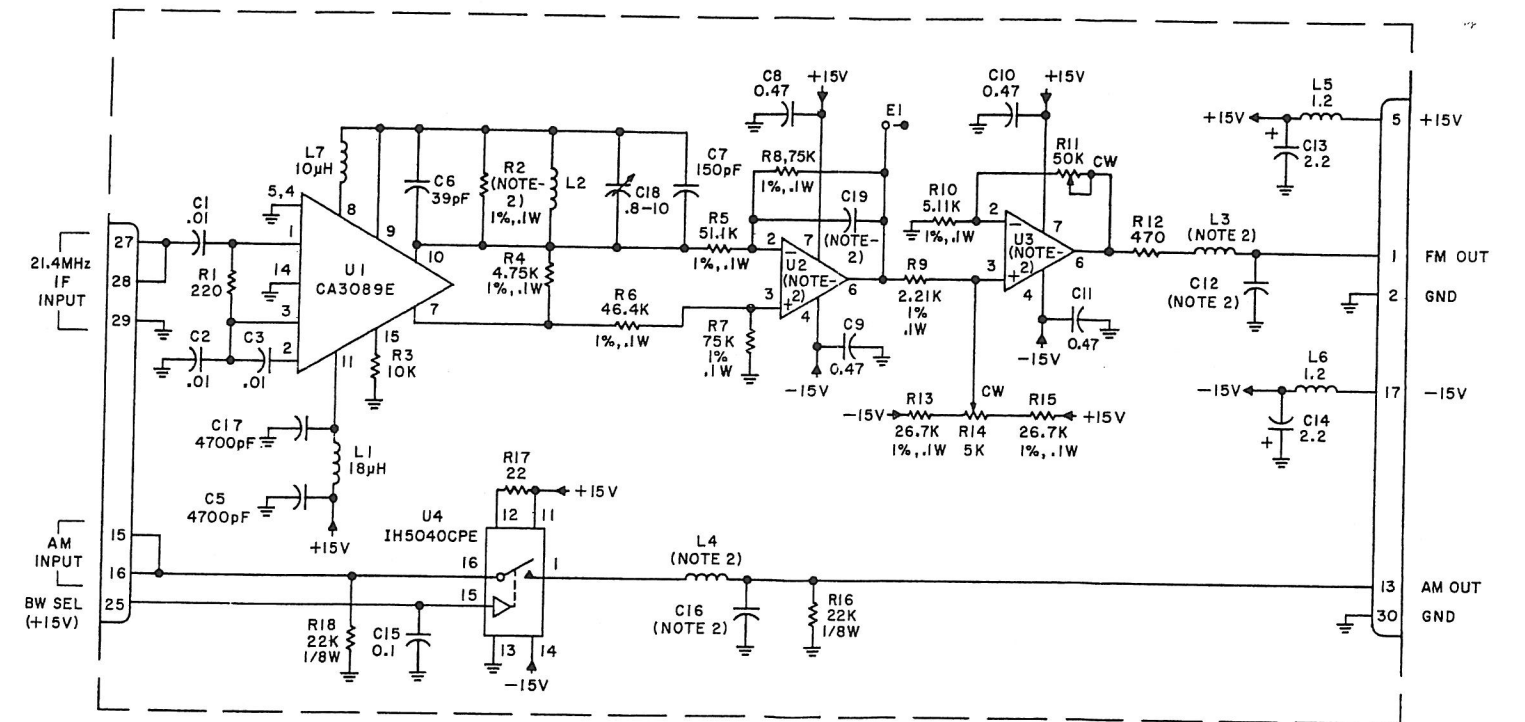


Figure S-23. Type 794107-X, FM Demodulator (A3A17-A3A21), Schematic Diagram 481290 (J)

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED:  
 a) RESISTANCE IS IN OHMS,  $\pm 5\%$ , 1/4W.  
 b) CAPACITANCE IS IN pF.  
 c) INDUCTANCE IS IN  $\mu$ H.  
 2. DIFFERENCE BETWEEN -1, -2 IS LISTED IN TABLE.

TYPE	IF BW	R16	L4	C22	L7	C21
794104-1	1MHz	50K	180	1000	220	820
794104-2	500kHz	200K	360	2200	390	1500

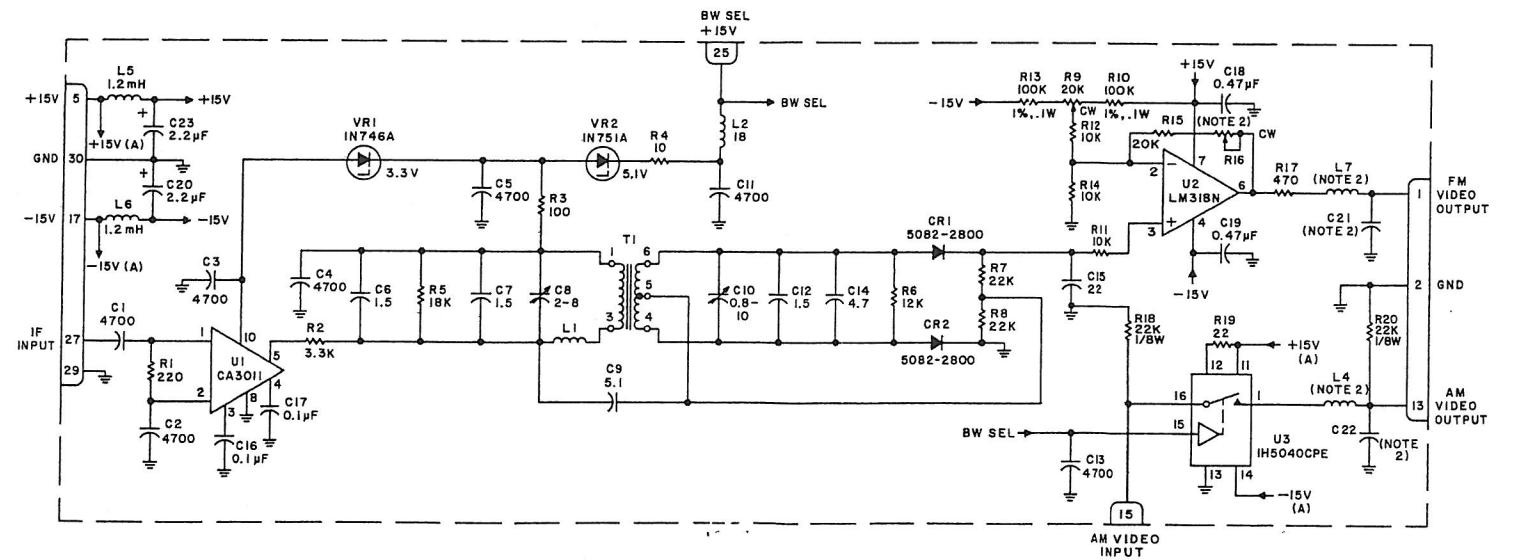
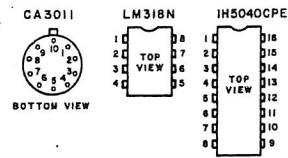


Figure S-24. Type 794104-1, -2, FM Demodulator (A3A17-A3A21), Schematic Diagram 470157 (E)

- NOTES:  
 1. UNLESS OTHERWISE SPECIFIED:  
 a) RESISTANCE IS IN OHMS, ±5%, 1/4W.  
 b) CAPACITANCE IS IN pF.  
 c) INDUCTANCE IS IN μH.  
 2. DIFFERENCE BETWEEN -1,-2,-3,-4 IS LISTED IN TABLE I.

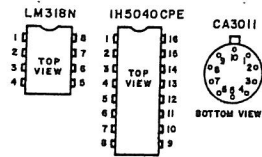


TABLE I.

TYPE	IF BW	FM BW	R4	C9	C10	C11	C12	L3	L4	R6	R9	R5	T1	C5
794105-1	2 MHz	2 MHz	22K	N/U	N/U	430	300	75	100	680	20K	22K	24608-9	2.7
794105-2	4 MHz	4 MHz	10K	N/U	N/U	130	180	39	47	1.8K	20K	10K	24608-9	2.7
794105-3	1 MHz	2 MHz	22K	N/U	N/U	820	1000	220	180	680	50K	22K	24608-9	2.7
794105-4	8 MHz	8 MHz	10K	N/U	N/U	100	120	22	27	1.8K	20K	10K	24608-13	1.0

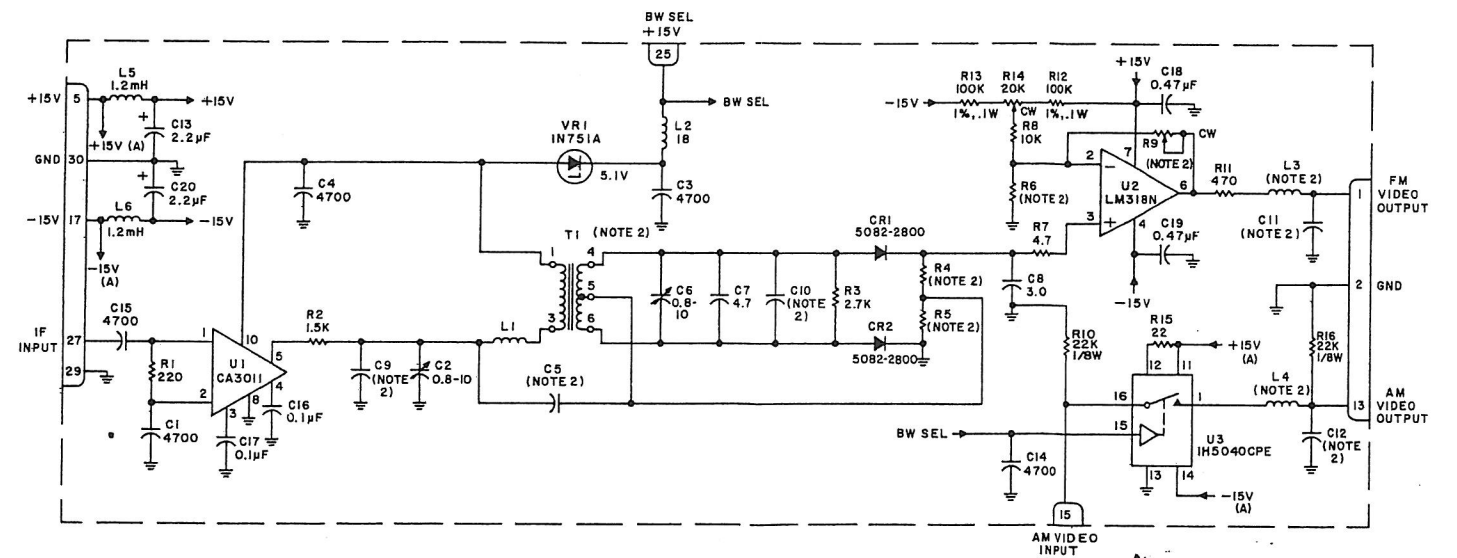


Figure S-25. Type 794105-X, FM Demodulator (A3A17-A3A21), Schematic Diagram 470158 (G)

DASH NO.	BW	KHz	FL1	FL2	RI	R6	R7	R8	R35	JW2	JW2	Q29	L10	L11
726009-1	3.2/10	92289	92293	12.1K	2.4K	36	2.4K	36	2.4K	1.78K	NOT USED	N/U	2.7µH	1.03µH
726009-2	20/50	92294	92291	4.75K	910	100	910	3.9K	6.81K	NOT USED	N/U	2.7µH	1.0µH	
726009-3	100/200	92292	92282	10.0K	1K	68	1K	1.5K	2.43K	NOT USED	N/U	2.7µH	1.0µH	
726009-4	100/300	92292	92290	1.5K	750	100	750	1.5K	2.43K	NOT USED	N/U	2.7µH	1.0µH	
726009-5	6.4/10	92299	92293	12.1K	N/U	N/U	18.2K	NOT USED	18.2K	USED	N/U	2.7µH	1.03µH	
726009-6	15/20	92300	92294	6.81K	3.3K	24	3.3K	6.2K	8.25K	NOT USED	N/U	2.7µH	1.03µH	
726009-7	30/40	92301	92302	5.62K	3.3K	24	3.3K	2.7K	5.62K	NOT USED	N/U	2.7µH	1.0µH	
726009-8	30/50	92301	92291	4.75K	1.8K	47	1.8K	3.9K	5.11K	NOT USED	N/U	2.7µH	1.0µH	
726009-9	75/100	92303	92292	2.43K	3.3K	24	3.3K	1.5K	2.74K	NOT USED	N/U	2.7µH	1.0µH	
726009-10	150/200	92304	92282	10.0K	3.3K	24	3.3K	1.5K	3.65K	NOT USED	N/U	2.7µH	1.0µH	
726009-11	10/20	92293	92294	5.62K	1K	68	1K	1.5K	2.43K	NOT USED	N/U	2.7µH	1.03µH	
726009-12	50/100	92291	92292	2.74K	NOT USED	NOT USED	1.5K	3.65K	USED	NOT USED	N/U	2.7µH	1.0µH	
726009-13	250/500	92317	92288	1.33K	1.5K	56	1.5K	1.58K	NOT USED	NOT USED	N/U	2.7µH	1.0µH	
726009-14	10/25	92293	92340	5.11K	910	100	910	9.53K	NOT USED	NOT USED	N/U	2.7µH	1.03µH	
726009-15	20/30	92294	92301	4.64K	1.8K	47	1.8K	3.9K	5.11K	NOT USED	N/U	2.7µH	1.0µH	
726009-16	50/75	92291	92303	3.01K	NOT USED	NOT USED	1.5K	3.32K	USED	NOT USED	N/U	2.7µH	1.0µH	
726009-17	3.2/6.4	92289	92299	2.0K	2.4K	36	2.4K	1.78K	NOT USED	NOT USED	N/U	2.7µH	1.03µH	
726009-18	150/300	92304	92290	1.21K	2.4K	36	2.4K	6.04K	NOT USED	NOT USED	N/U	2.7µH	1.0µH	
726009-19	300/500	92290	92288	1.15K	1K	82	1K	1.8K	NOT USED	NOT USED	N/U	2.7µH	1.0µH	
726009-20	200/300	92282	92290	1.40K	NOT USED	NOT USED	1.0K	9.09K	USED	NOT USED	N/U	2.7µH	1.0µH	
726009-21	10/30	92293	92301	4.32K	820	100	820	10K	NOT USED	NOT USED	N/U	2.7µH	1.03µH	
726009-22	10/50	92293	92291	4.75K	560	180	560	13.3K	NOT USED	NOT USED	N/U	2.7µH	1.03µH	
726009-23	10/50	92474	92473	4.75K	560	180	560	13.3K	NOT USED	NOT USED	N/U	2.7µH	1.03µH	
726009-24	300/500	92472	92471	1.15K	1K	82	1K	1.8K	NOT USED	NOT USED	N/U	2.7µH	1.0µH	
726009-25	200/400	92282	92283	931	910	100	910	9.09K	NOT USED	NOT USED	N/U	2.7µH	1.0µH	
726009-26	25/75	92340	92303	3.01K	820	100	820	4.64K	NOT USED	NOT USED	N/U	2.7µH	1.0µH	
726009-27	6.4/20	92299	92294	6.81K	2.4K	36	2.4K	18.2K	NOT USED	NOT USED	N/U	2.7µH	1.03µH	
726009-28	50/150	92291	92304	7.5K	1K	68	1K	1.5K	3.65K	NOT USED	N/U	2.7µH	1.0µH	
726009-29	300/400	92290	92283	931	1K	82	1K	1.8K	NOT USED	NOT USED	N/U	2.7µH	1.0µH	
726009-30	100/150	92292	92304	7.5K	3.3K	24	3.3K	1.5K	2.43K	NOT USED	N/U	2.7µH	1.0µH	
726009-31	150/200	92304	92282	2.21K	3.3K	24	3.3K	1.5K	3.65K	NOT USED	N/U	2.7µH	1.0µH	
726009-32	40/10	92574	92293	11.0K	910	100	910	13.3K	NOT USED	NOT USED	N/U	2.7µH	1.03µH	
726009-33	3.2/10	92680	92474	12.1K	2.4K	36	2.4K	1.78K	NOT USED	NOT USED	N/U	2.7µH	1.03µH	
726009-34	20/50	92681	92473	4.75K	910	100	910	3.9K	6.81K	NOT USED	N/U	2.7µH	1.0µH	
726009-35	100/300	92682	92472	1.5K	750	100	750	1.5K	2.43K	NOT USED	N/U	2.7µH	1.0µH	
726009-36	25/34	92340	92689	4.64K	1.2K	68	1.2K	3.9K	5.11K	NOT USED	N/U	2.7µH	1.0µH	
726009-37	40/50	92302	92291	3.65K	1.8K	47	1.8K	2.7K	3.92K	NOT USED	N/U	2.7µH	1.0µH	

TABLE 1

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED:  
 a) CAPACITANCE IS IN pF.  
 b) INDUCTANCE IS IN µH.  
 c) RESISTANCE IS IN OHMS, ±5%, 1/8W.  
 2. THE DIFFERENCE BETWEEN TYPES IS SHOWN IN TABLE 1, (SHEET 2)  
 3. REPLACE R7 WITH JW2 FOR -5,-12 & -16 ASSY.



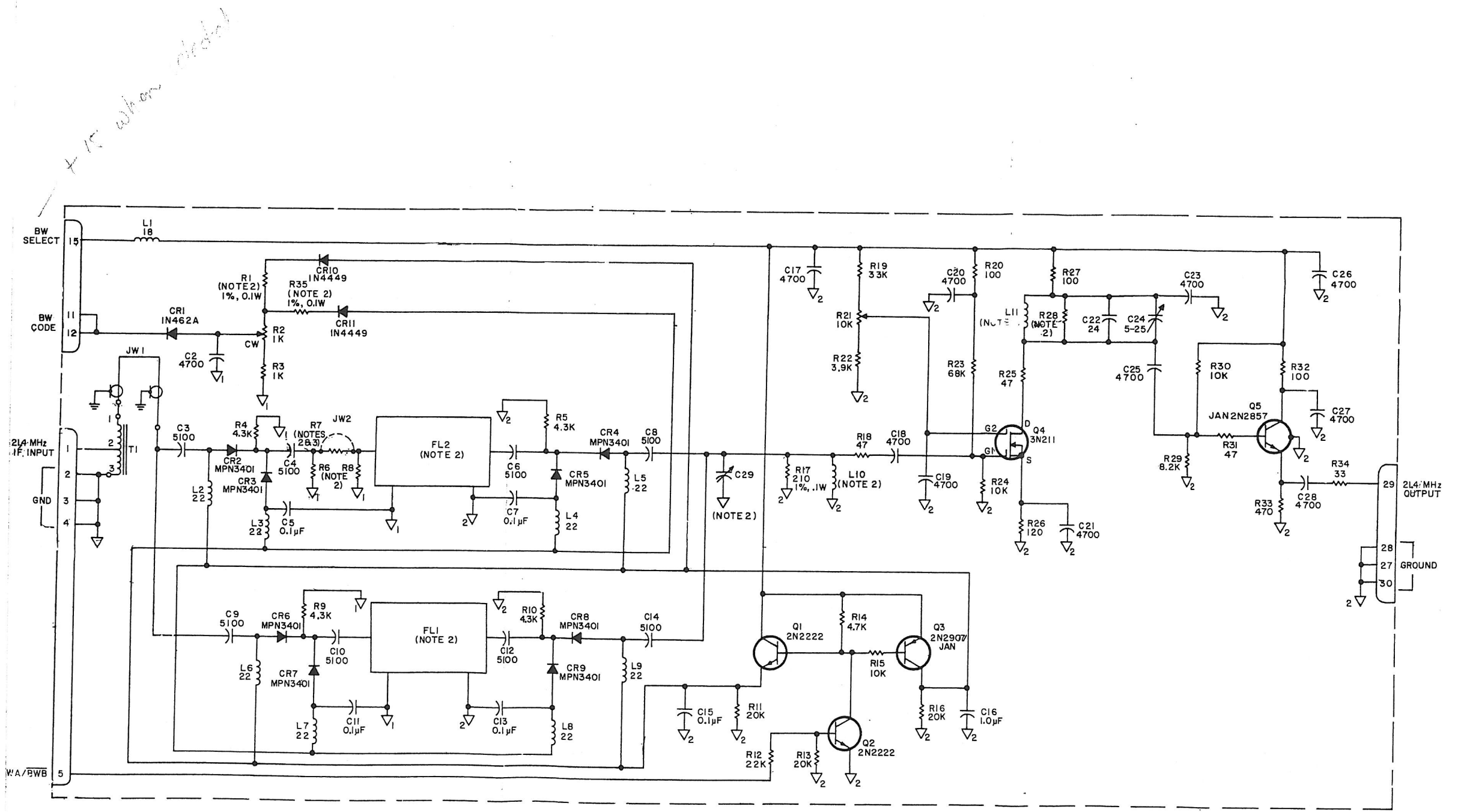


Figure S-26. Type 726009-X, Switchable IF BW Filter (A3A9-A3A13), Schematic Diagram 480506 (U)

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED:  
 a) INDUCTANCE IS IN  $\mu$ H.  
 b) CAPACITANCE IS IN  $\mu$ F.  
 c) RESISTANCE IS IN OHMS,  $\pm 5\%$ , 1/8W.  
 2. THE DIFFERENCE BETWEEN TYPES IS SHOWN IN TABLE I.

	BW KHz	FL1	FL2	R9	R10	R11	R15	R16	R26	JW2	L8	R24	R14	C24	
-1	400/600	92283	92284	2.2K	33	2.2K	562	1.1K	10	N/U	2.7	220	270	N/U	
-2	500/1000	92288	92287	1K	68	1K	1.0K	1.2K	10	N/U	2.7	220	270	N/U	
-3	1000/2000	92287	92286	1K	68	1K	562	750	10	N/U	2.7	220	240	N/U	
-4	2000/4000	92286	92285	1K	68	1K	301	392	15	N/U	3.9	220	220	N/U	
-5	4000/6000	92285	92305	2.2K	33	2.2K	221	301	15	N/U	3.9	220	220	N/U	
-6	4000/8000	92285	92373	680	120	680	562	200	15	N/U	3.9	220	220	N/U	
-7	300/1000	92290	92287	680	120	680	1.18K	1.74K	10	N/U	2.7	1.2K	270	N/U	
-8	4000/10000	92285	N/U	620	150	620	267	200	15	USED	3.9	220	220	N/U	
-9	8000/10000	92373	N/U	3.3K	22	3.3K	274	365	15	USED	3.9	220	220	N/U	
-10	8000/10000	(GAUSSIAN) 92470	(GAUSSIAN) 92469	N/U	3.3K	22	3.3K	274	365	15	USED	3.9	220	220	N/U
-11	1000/2000	(GAUSSIAN) 92470	(GAUSSIAN) 92469	1K	68	1K	562	750	10	N/U	1.8	220	270	5-20pF	
-12	4000/6000	(GAUSSIAN) 92468	(GAUSSIAN) 92467	2.2K	33	2.2K	1.1K	301	15	N/U	1.8	220	220	5-20pF	
-13	800/1200	92488	92489	1.2K	68	1.2K	1.15K	698	10	N/U	2.7	220	270	N/U	
-14	1600/3200	92490	92491	1.2K	68	1.2K	267	511	10	N/U	3.9	220	220	N/U	
-15	4000/6000	(GAUSSIAN) 92468	(GAUSSIAN) 92467	2.2K	33	2.2K	221	301	15	N/U	1.8	220	220	5-20pF	

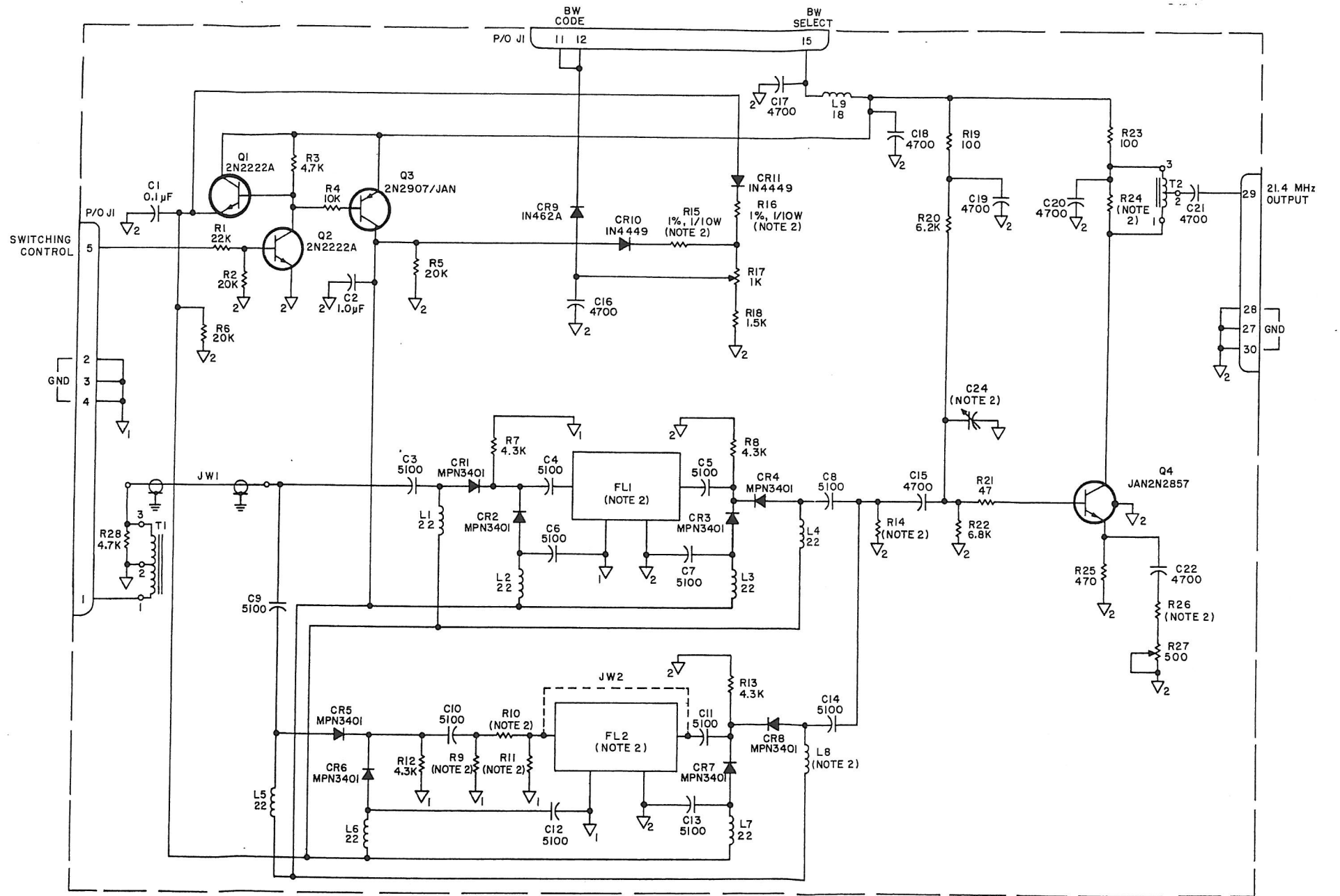


Figure S-27. Type 726010-X, Switchable IF BW Filter (A3A9-A3A13), Schematic Diagram 480507 (N)

- NOTES:
- UNLESS OTHERWISE SPECIFIED:  
 a) RESISTANCE IS IN OHMS, ±1%, 1/10W.  
 b) CAPACITANCE IS IN μF.  
 c) INDUCTANCE IS IN mH.
  - SWITCHES SHOWN IN LOGIC "0" CONDITION, NARROW BAND SELECTED.
  - NOMINAL VALUE, FINAL VALUE FACTORY SELECTED.
  - THE DIFFERENCE BETWEEN TYPES IS SHOWN IN TABLE 1.
  - CONNECT JUMPERS AS SHOWN IN TABLE 2 FOR POSITIVE OR NEGATIVE GOING FM VIDEO.

JUMPERS		
JW1	JW2	
E2 - E3	E4 - E5	POSITIVE
E2 - E5	E4 - E3	NEGATIVE

TYPE NO.	B.W. KHz	C13	C14	C17	C18	L4	L5	L6	L7	R6	R19	R20	Y1
796354-1	3.2/10	.27	.068	.27	.068	56	22	56	22	2.21K	1.47K	681	2378F
-2	20/50	.047	.01	.047	.01	10	3.9	10	3.9	9.09K	1.18K	787	3099
-3	6.4/10	.1	.1	.1	.1	33	22	33	22	2.21K	750	1.33K	2378F
-4	15/20	.068	.047	.068	.047	15	10	15	10	2.21K	619	2.0K	2378F
-5	30/50	.033	.022	.033	.022	6.8	4.7	6.8	4.7	9.09K	7.50	1.1K	3099
-6	30/40	.033	.022	.033	.022	6.8	4.7	6.8	4.7	9.09K	619	2.0K	3099
-7	10/20	.068	.047	.068	.047	22	10	22	10	2.21K	953	953	2378F
-8	10/25	.068	.039	.068	.039	22	8.2	22	8.2	2.21K	1.18K	787	2378F
-9	20/30	.047	.033	.047	.033	10	6.8	10	6.8	9.09K	698	1.40K	3099
-10	3.2/6.4	.27	.1	.27	.1	56	33	56	33	2.21K	953	953	2378F
-11	10/30	.068	.033	.068	.033	22	6.8	22	6.8	9.09K	1.33K	681	3099
-12	10/50	.068	.022	.068	.022	22	4.7	22	4.7	9.09K	2.43K	562	3099
-13	6.4/20	0.1	.047	0.1	.047	33	10	33	10	2.21K	1.47K	681	2378F
-14	4.0/10	0.15	.068	0.15	.068	56	22	56	22	2.21K	1.18K	787	2378F
-15	25/34	.039	.027	.039	.027	8.2	6.8	8.2	6.8	9.09K	634	1.78K	3099
-16	40/50	.022	.018	.022	.018	4.7	4.7	4.7	4.7	9.09K	604	2.37K	3099

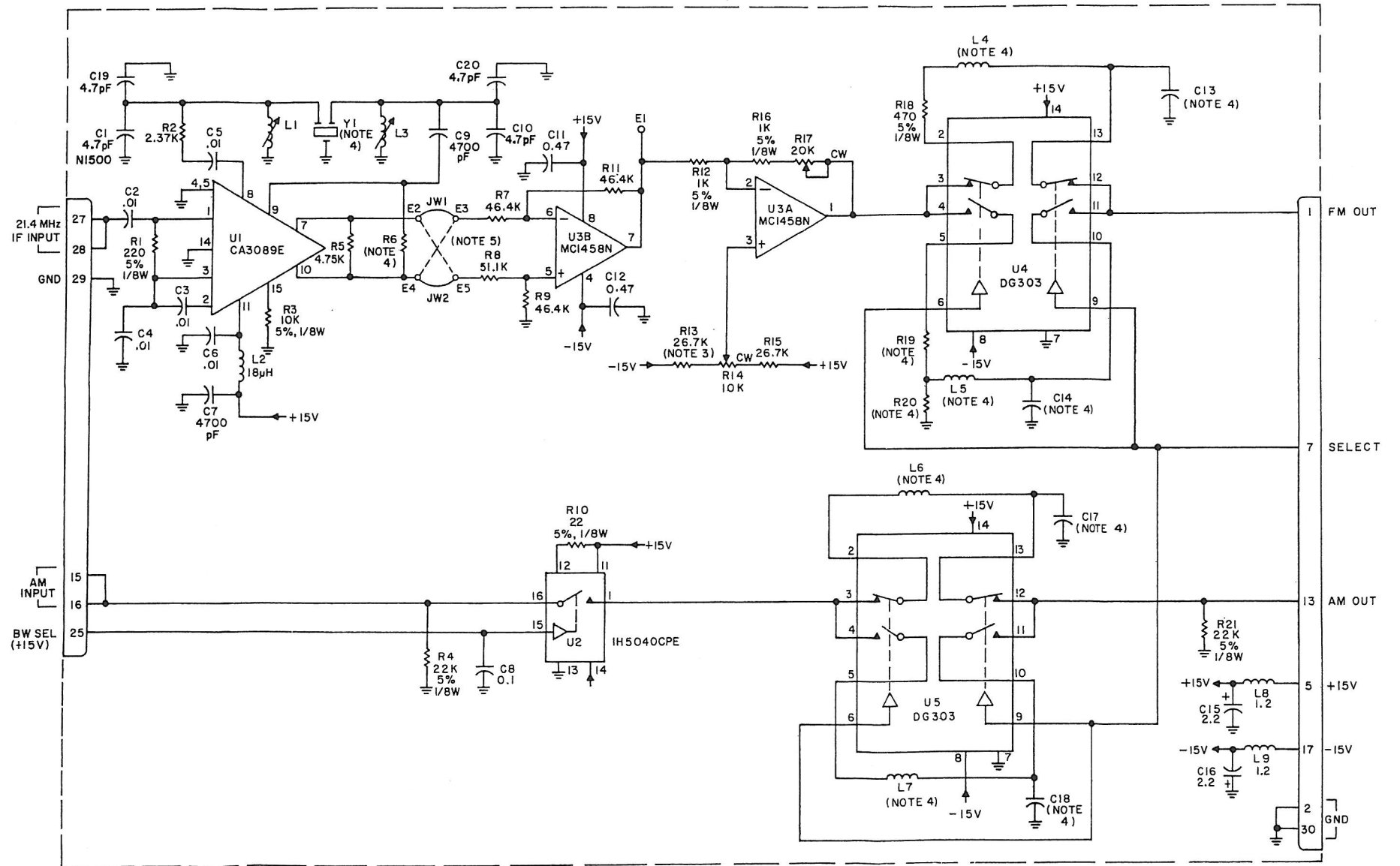


Figure S-28. Type 796354-X, Switchable FM Demodulator (A3A17-A3A21), Schematic Diagram 480549 (G)

- NOTES:  
 1. UNLESS OTHERWISE SPECIFIED:  
 a) CAPACITANCE IS IN  $\mu\text{F}$   
 b) INDUCTANCE IS IN mH  
 c) RESISTANCE IS IN OHMS  $\pm 1\%$ , 1/10W  
 2. SWITCHES SHOWN IN LOGIC "0" CONDITION, NARROW BAND SELECTED  
 3. THE DIFFERENCE BETWEEN TYPES IS SHOWN IN TABLE 1.  
 4. CONNECT JUMPERS AS SHOWN IN TABLE 2 FOR POSITIVE OR NEGATIVE GOING FM VIDEO

TABLE 1

TYPE NO.	BW (KHz)	C12, C16	C13, C17	L4, L8	L5, L9	R18	R19
796355-1	100/200	.01 $\mu\text{F}$	4700pF	2.2 mH	1.0 mH	953	953
796355-2	100/300	.01 $\mu\text{F}$	3300pF	2.2 mH	680 $\mu\text{H}$	1.40K	715
796355-3	75/100	.01 $\mu\text{F}$	.01 $\mu\text{F}$	2.2 mH	2.2 mH	619	1.82K
796355-4	150/200	6200pF	4700pF	1.5 mH	1mH	619	1.82K
796355-5	50/100	.018 $\mu\text{F}$	.01 $\mu\text{F}$	3.9 mH	2.2 mH	953	953
796355-6	50/75	.018 $\mu\text{F}$	.01 $\mu\text{F}$	3.9 mH	2.7 mH	698	1.40K
796355-7	150/300	6200pF	3300pF	1.5 mH	680 $\mu\text{H}$	953	953
796355-8	200/300	4700pF	3000pF	1.0 mH	680 $\mu\text{H}$	698	1.40K

TABLE 2

JUMPERS		
JW1	JW2	
E2 - E3	E4 - E5	POSITIVE
E2 - E5	E4 - E3	NEGATIVE

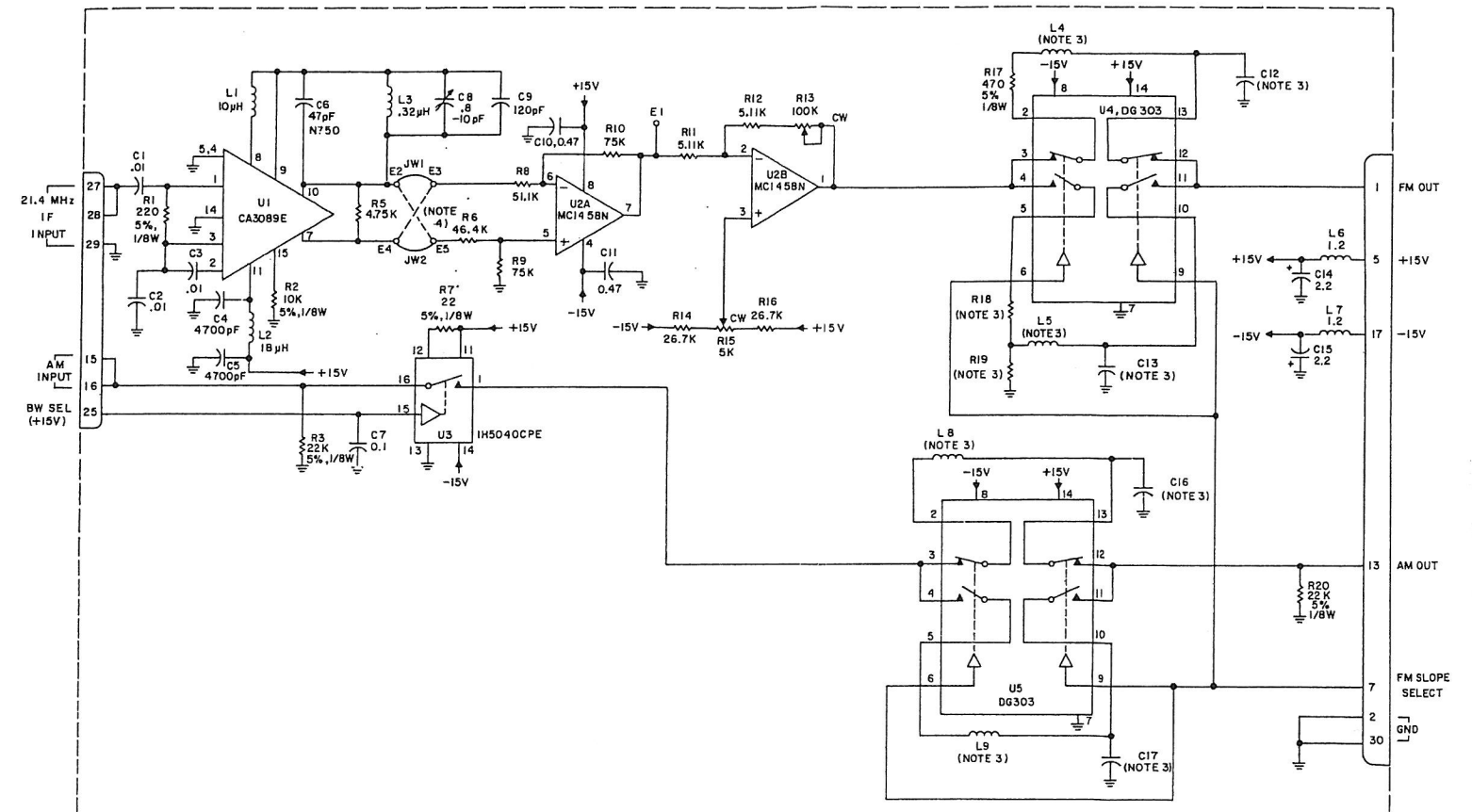


Figure S-29. Type 796355-X, Switchable FM Demodulator (A3A17-A3A21), Schematic Diagram 480546 (E)

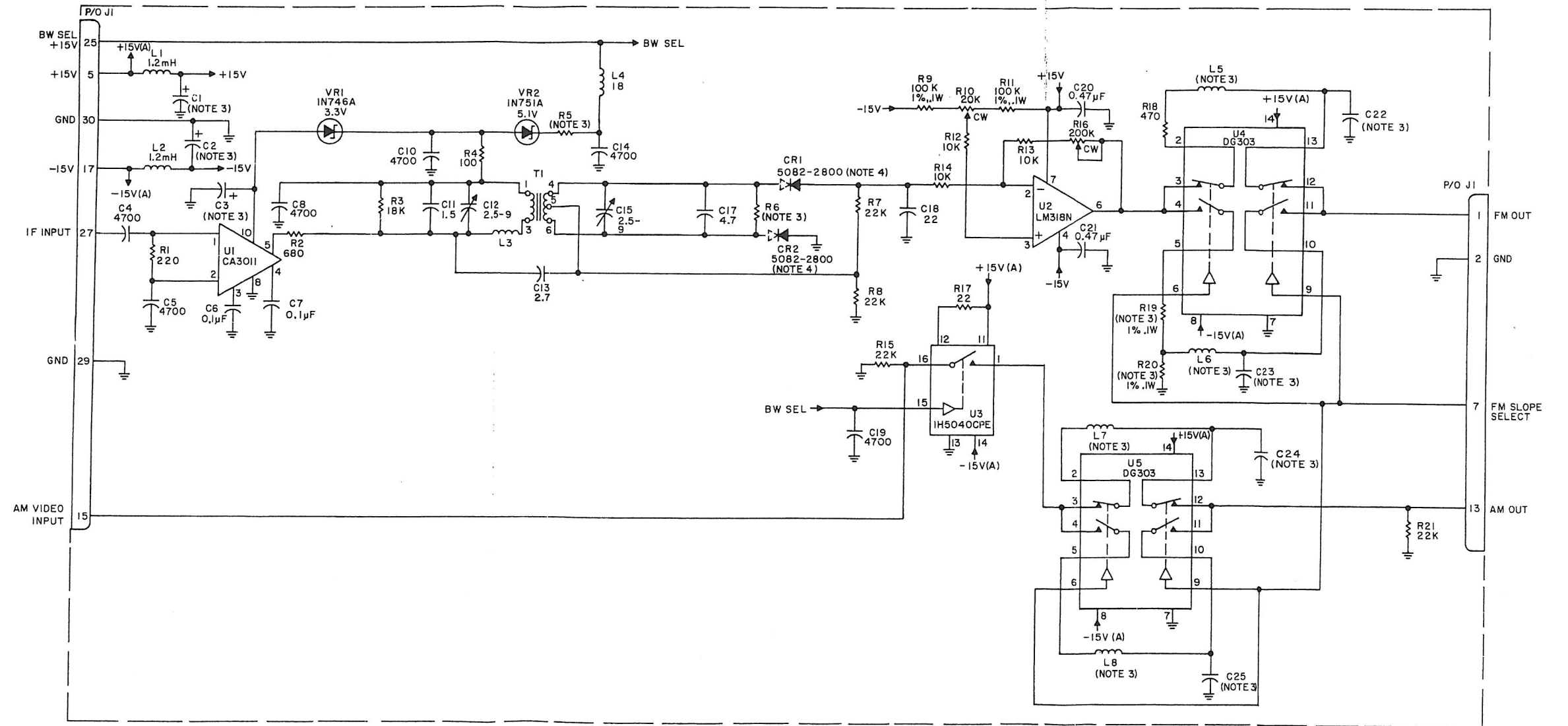


Figure S-30. Type 796356-X, Switchable FM Demodulator (A3A17-A3A21), Schematic Diagram 480518

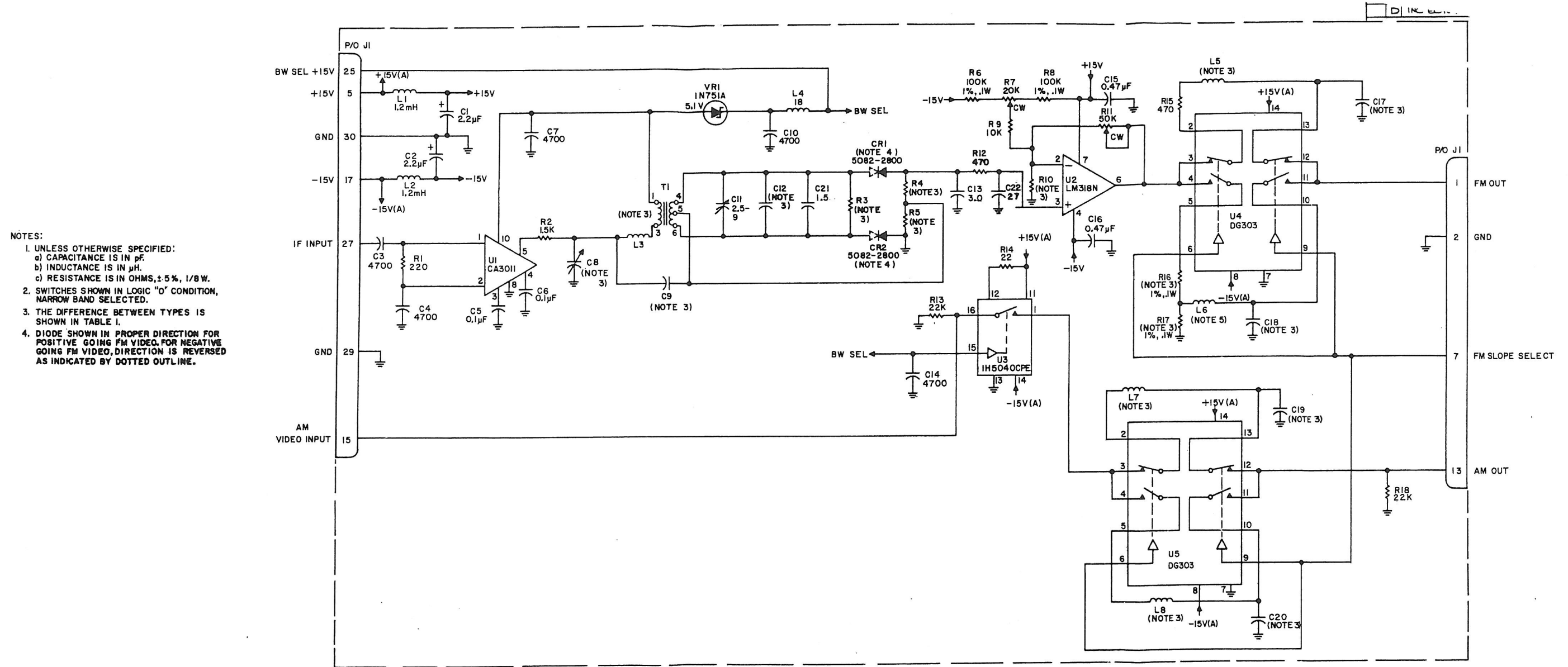


TABLE I

TYPE NO.	BW (KHz)	R4, R5	R10	L5, L7	L6, L8	C17, C19	C18, C20	T1	C8	C9	C12	R3	R16	R17
796357-1	1000/2000	22K	1.2 K	220 $\mu$ H	100 $\mu$ H	910pF	510 pF	24608-9	2.5-9pF	2.7pF	3.3pF	2.7K	953	953
796357-2	2000/4000	10K	2.7 K	100 $\mu$ H	56 $\mu$ H	510pF	240pF	24608-9	2.5-9pF	2.7pF	3.3pF	2.7K	953	953
796357-3	4000/6000	10K	4.32K	56 $\mu$ H	33 $\mu$ H	240pF	160 pF	24608-9	2.5-9pF	2.7pF	3.3pF	2.7K	750	1.50K
796357-4	4000/8000	10K	2.7K	39 $\mu$ H	10 $\mu$ H	130pF	47 pF	24608-13	2.5-9pF	2.7pF	3.3pF	1.8 K	953	953
796357-5	4000/10000	10K	2.7K	39 $\mu$ H	10 $\mu$ H	130 pF	47 pF	24609-19	2-5 pF	3.6pF	6.8pF	1.0K	1.1K	750
796357-6	8000/10000	10K	2.7K	27 $\mu$ H	10 $\mu$ H	120 pF	47 pF	24609-19	2-5 pF	3.6pF	6.8pF	1.0K	619	2.43K
796357-7	1600/3200	10K	2.0K	120 $\mu$ H	68 $\mu$ H	620pF	300pF	24608-9	2.5-9pF	2.7pF	3.3pF	2.7K	953	953
796357-8	1000/1500	22K	1.2K	220 $\mu$ H	150 $\mu$ H	910pF	750pF	24608-9	2.5-9pF	2.7pF	3.3pF	2.7K	750	1.50K
796357-9	2000/3200	10K	2.0K	100 $\mu$ H	68 $\mu$ H	510pF	300pF	24608-9	2.5-9pF	2.7pF	3.3pF	2.7K	750	1.50K

Figure S-31. Type 796357-X, Switchable FM Demodulator (A3A17-A3A21), Schematic Diagram 480522 (F)