

MODEL 757 OCTAL MULTIFUNCTION LOGIC MODULE

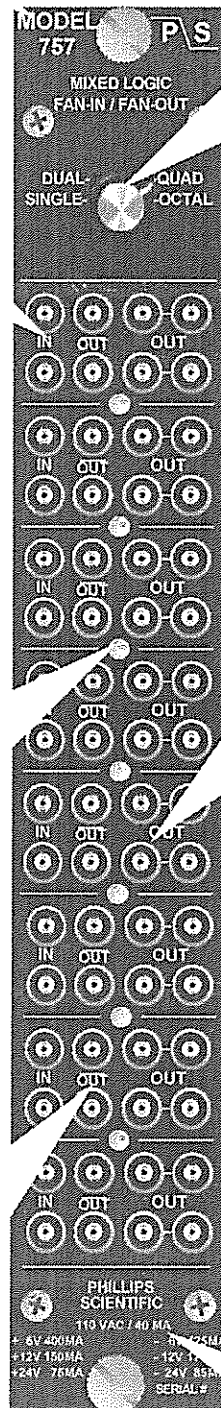
(Front Panel Description)

Standard # 1 NIM Packaging
in accordance with TID-20893

Two Logic Level LEMO Inputs;
Negative NIM or Positive TTL;
NIM=50 ohm, TTL=500 ohm.

LED's (7) Between Channels,
Indicate which Sections are
Logically Linked.

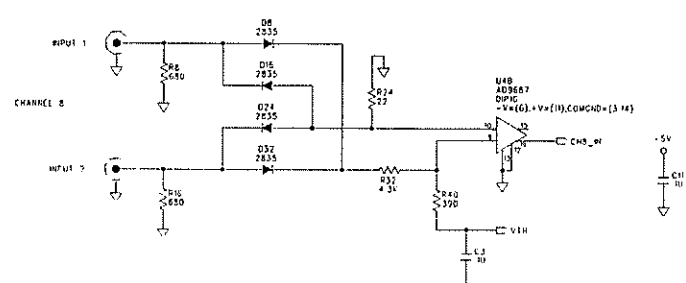
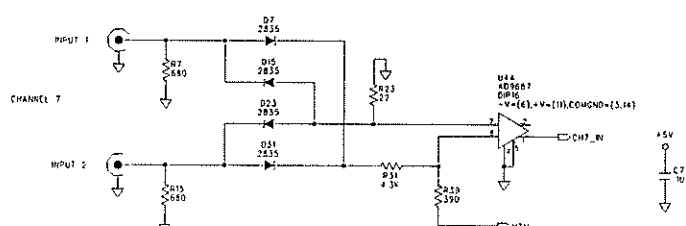
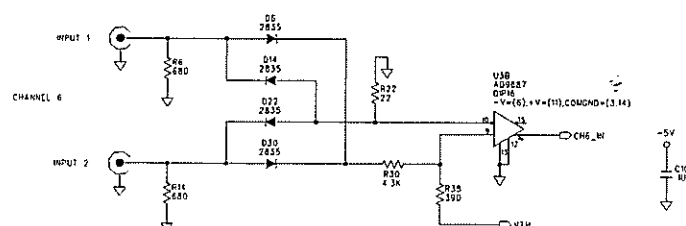
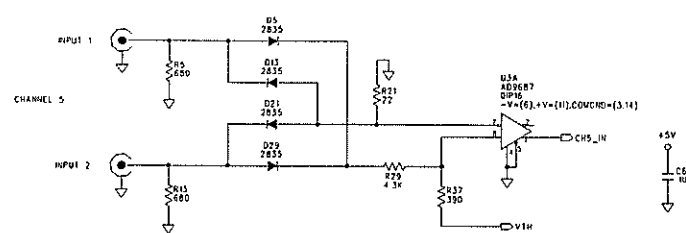
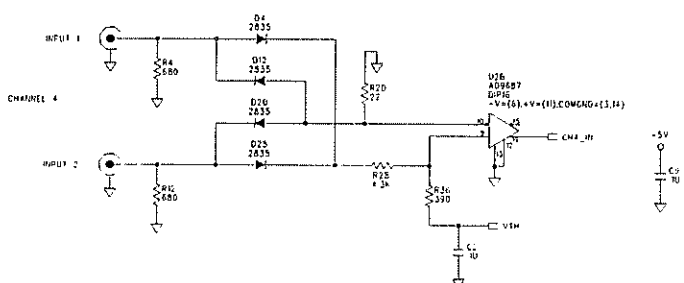
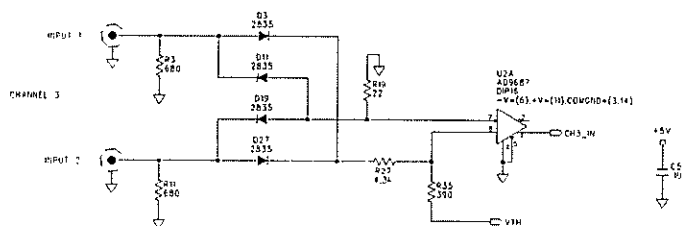
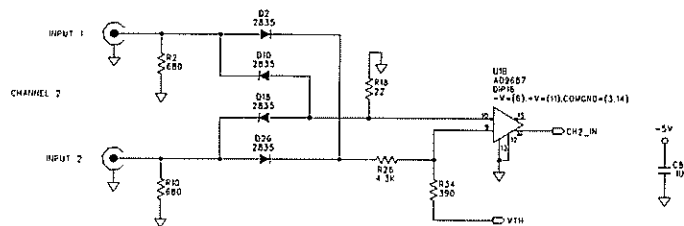
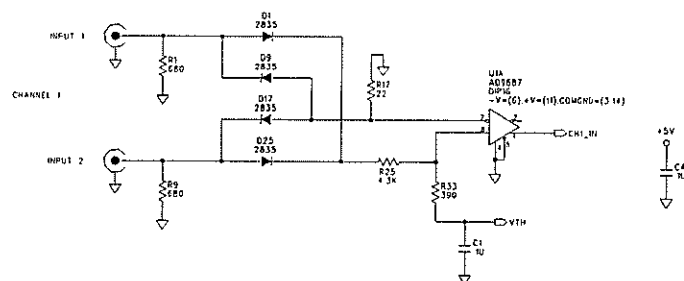
Two Double-Amplitude Complemented
Bridged NIM Outputs; -32mA (-1.6 V into
50 ohms, -.8 Volt into Two 50 ohm Loads)



Four Position Switch Selects
an Octal, Quad, Dual or Single
Channel Operation.

Two Pairs Double-Amplitude Bridged
NIM Outputs; -32mA (-1.6 Volts into 50
ohms, -.8 Volt into Two 50 ohm Loads)

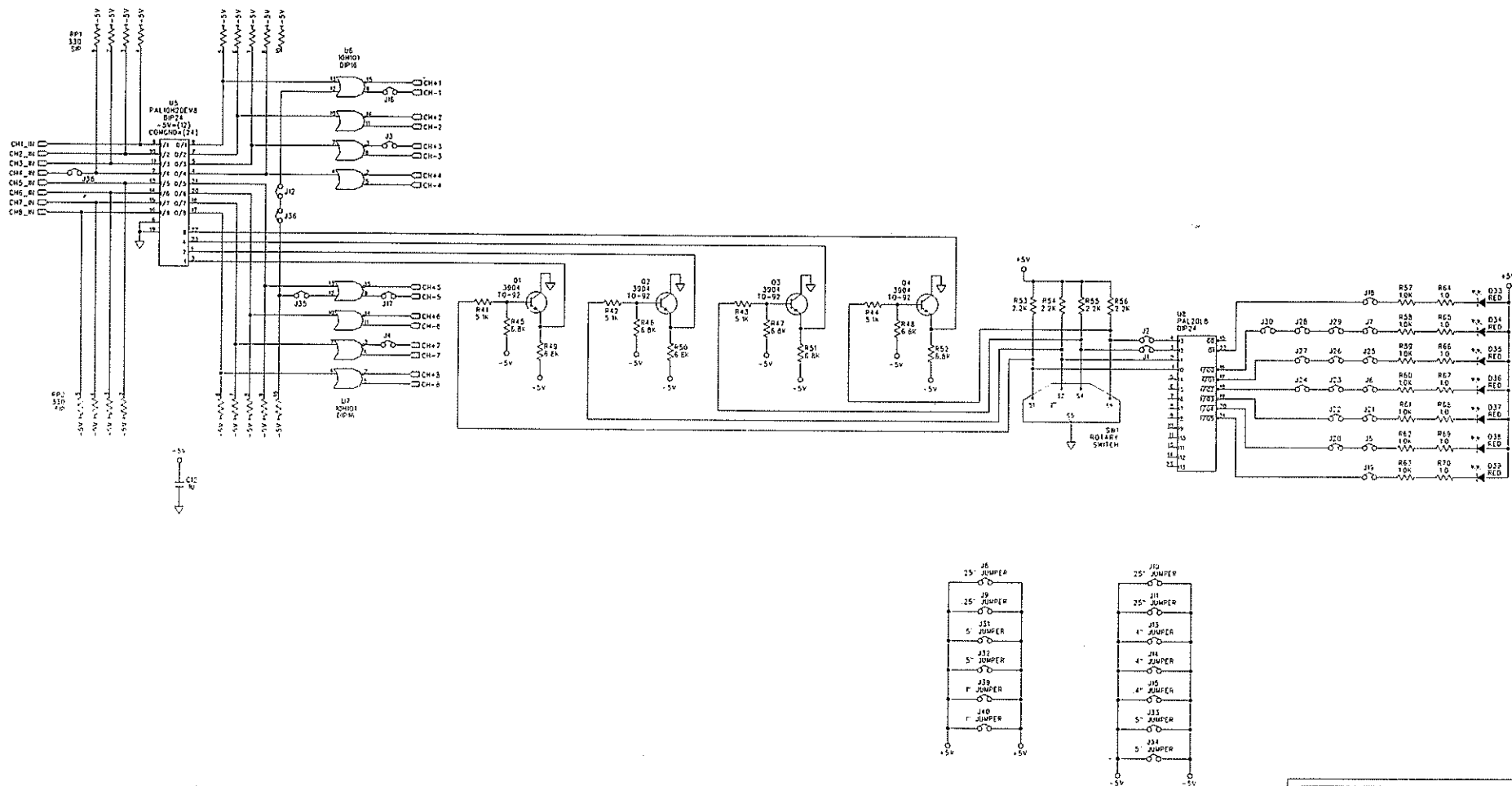
NIM Voltage and Current
Requirements



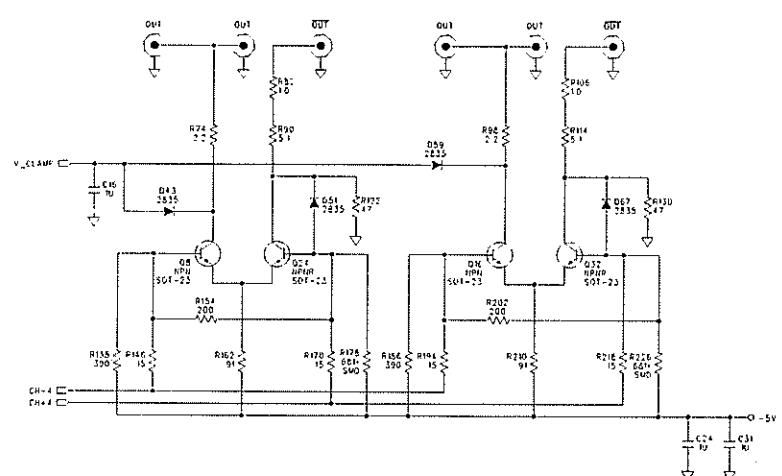
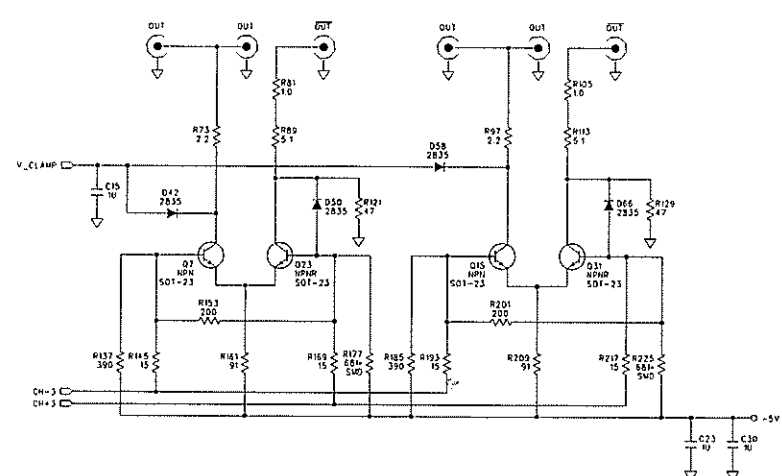
PHILLIPS SCIENTIFIC

MODEL 757
 OCTAL MULTIFUNCTION LOGIC UNIT

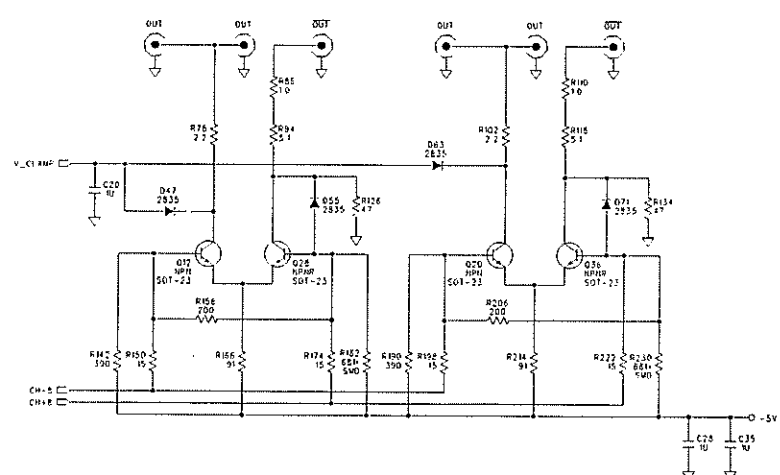
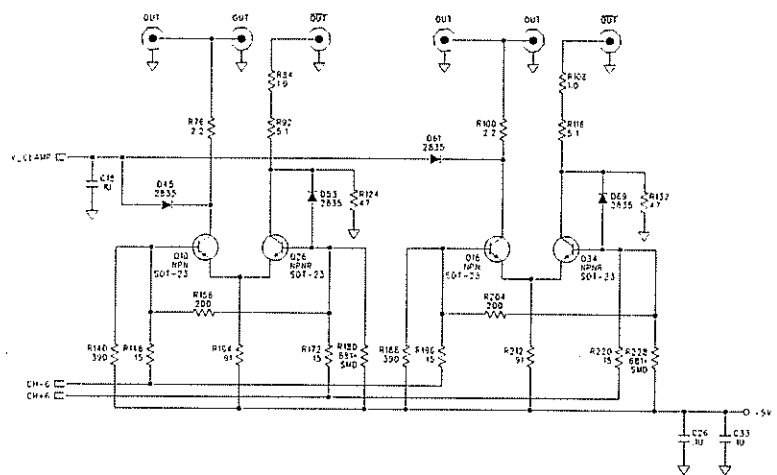
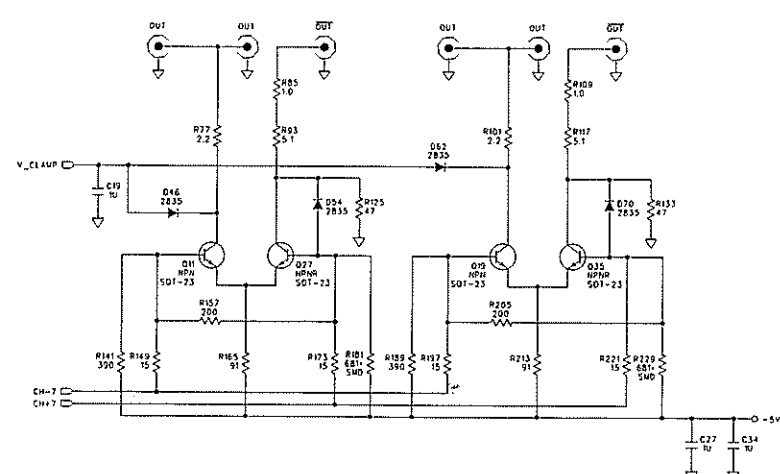
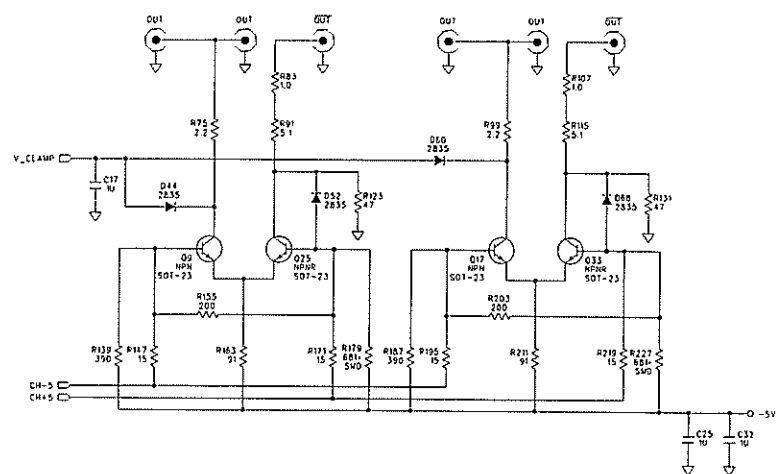
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09-18-02	D	75701



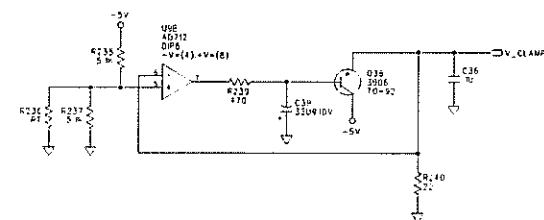
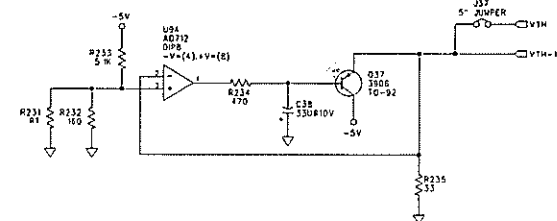
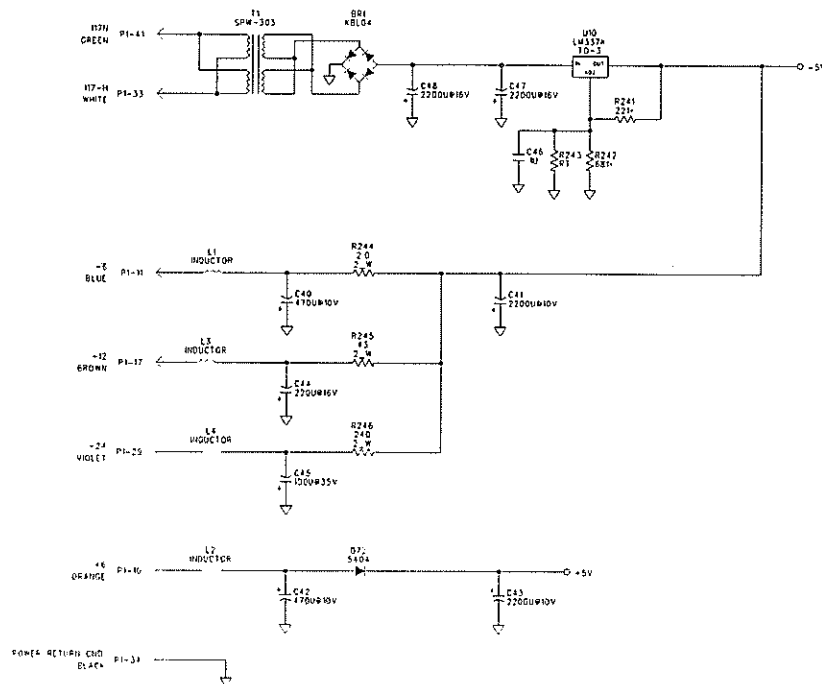
PHILLIPS SCIENTIFIC		
MODEL 757		
OCTAL MULTIFUNCTION LOGIC UNIT		
DATE	REV	FILE
09-18-02	REV D	75702



DATE		FILE
02-18-02	REV D	75703



PHILLIPS SCIENTIFIC		
MODEL 757		
DIGITAL MULTIFUNCTION LOGIC UNIT		
DATE	REV	FILE
09-18-02	D	75704



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MODEL 757		
OPTICAL MULTIFUNCTION LOGIC UNIT		
DATE	REV	FILE
09-18-02	REV D	75705

MODEL 757 PARTS LIST

Rev. D

<u>Ident.</u>	<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
R1-16	16	00106800	680 ohm 5% CF 1/8 resistor
R17-24	8	001022R0	22 ohm 5% CF 1/8 resistor
R25-32	8	00104301	4.3K ohm 5% CF 1/8 resistor
R33-40	8	00103900	390 ohm 5% CF 1/8 resistor
R41-44	4	00105101	5.1K ohm 5% CF 1/8 resistor
R45-52	8	00106801	6.8K ohm 5% CF 1/8 resistor
R53-56	4	00102201	2.2K ohm 5% CF 1/8 resistor
R57-63	7	00101001	1.0K ohm 5% CF 1/8 resistor
R64-70	7	00101R00	1.0 ohm 5% CF 1/8 resistor
R71-78	8	00102R20	2.2 ohm 5% CF 1/8 resistor
R79-86	8	00101R00	1.0 ohm 5% CF 1/8 resistor
R87-94	8	00105R10	5.1 ohm 5% CF 1/8 resistor
R95-102	8	00102R20	2.2 ohm 5% CF 1/8 resistor
R103-110	8	00101R00	1.0 ohm 5% CF 1/8 resistor
R111-118	8	00105R10	5.1 ohm 5% CF 1/8 resistor
R119-134	16	001047R0	47 ohm 5% CF 1/8 resistor
R135-142	8	00103900	390 ohm 5% CF 1/8 resistor
R143-150	8	001015R0	15 ohm 5% CF 1/8 resistor
R151-158	8	00102000	200 ohm 5% CF 1/8 resistor
R159-166	8	001091R0	91 ohm 5% CF 1/8 resistor
R167-174	8	001015R0	15 ohm 5% CF 1/8 resistor
R175-182	8	00706810	681 ohm 1% SMD 1/8 resistor
R183-190	8	00103900	390 ohm 5% CF 1/8 resistor
R191-198	8	001015R0	15 ohm 5% CF 1/8 resistor
R199-206	8	00102000	200 ohm 5% CF 1/8 resistor
R207-214	8	001091R0	91 ohm 5% CF 1/8 resistor
R215-222	8	001015R0	15 ohm 5% CF 1/8 resistor
R223-230	8	00706810	681 ohm 1% SMD 1/8 resistor
R231	1	00000000	Resistor Trim
R232	1	00101600	160 ohm 5% CF 1/8 resistor
R233	1	00105101	5.1K ohm 5% CF 1/8 resistor
R234	1	00104700	470 ohm 5% CF 1/8 resistor
R235	1	001033R0	33 ohm 5% CF 1/8 resistor
R236	1	00000000	Resistor Trim
R237-238	2	00105101	5.1K ohm 5% CF 1/8 resistor
R239	1	00104700	470 ohm 5% CF 1/8 resistor
R240	1	001022R0	22 ohm 5% CF 1/8 resistor
R241	1	00252210	221 ohm 1% CF 1/3 resistor
R242	1	00256810	681 ohm 1% CF 1/3 resistor
R243	1	00000000	Resistor Trim
R244	1	00342R00	2.0 ohm 5% MOF 2w resistor
R245	1	003443R0	43 ohm 5% MOF 2w resistor
R246	1	00342400	240 ohm 5% MOF 2w resistor
RP1-2	2	00803300	330 ohm SIP resistor network
C1-36	36	10151003	.1 mfd cer mono capacitor
C37-39	3	10813305	33 mfd @ 10v tan capacitor
C40	1	10514706	470 mfd @ 10v al el capacitor
C41	1	10612207	2200 mfd @ 10v al el capacitor
C42	1	10514706	470 mfd @ 10v al el capacitor
C43	1	10612207	2200 mfd @ 10v al el capacitor
C44	1	10522206	220 mfd @ 16v al el capacitor
C45	1	10541006	100 mfd @ 35v al el capacitor
C46	1	10151003	.1 mfd cer mono capacitor
C47-48	2	10622207	2200 mfd @ 16v al el capacitor

MODEL 757 PARTS LIST

Rev. D

<u>Ident.</u>	<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
D1-32	32	20202835	Schottky diode
D33-39	7	21000003	HLMP-1340 LED (R)
D40-71	32	20202835	Schottky diode
D72	1	20005404	1N5404 diode
Q1-4	4	24003904	2N3904 NPN transistor
Q5-20	16	2420NPN0	NPN (SMD) (R2) transistor
Q21-36	16	2420NPNR	NPN (SMD) reverse transistor
Q37-38	2	24003906	2N3906 PNP transistor
L1-4	4	15000000	Power Inductor
T1	1	15500004	Power Transformer
BR1	1	2030BL04	KBL04 Bridge Rectifier
U1-4	4	30509687	SPT9687SIN Honeywell Comp IC
U5	1	360H20P8	PAL10H20EV8-4 IC
U6-7	2	3510H101	10H101P IC
U8	1	3650007A	PAL20L8 IC
U9	1	3020712J	AD712JN Op-Amp IC
U10	1	3010337K	LM337K TO-3 Regulator
J1	1	00010100	0 ohm .1" jumper
J2	1	00010200	0 ohm .2" jumper
J3-12	10	00010250	0 ohm .25" jumper
J13-17	5	00010400	0 ohm .4" jumper
J18-37	20	00010500	0 ohm .5" jumper
J38	1	00010800	0 ohm .8" jumper
J39-40	2	00011000	0 ohm 1" jumper

MODEL 757 PARTS LIST

Rev. D

<u>Ident.</u>	<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
SW1	1	40000008	8 Pin DIP Socket
	6	40000016	16 Pin DIP Socket
	2	40000024	24 Pin DIP Socket
	64	40100007	Lemo PC Mount
	1	40200000	NIM Connector Block
	1	40200001	NIM Connector Shield
	7	40200002	NIM Elect. Pin
	2	40200003	NIM Female Guide Pin
	1	40200004	NIM Male Guide Pin
	1	40200005	NIM Male Guide Pin Gold Plate
	1	40200006	#4 Lock Washer Gold Plate
	1	40200007	#4-40 Hex Nut Gold Plate
	2	40950002	Solder Lug
	1	58000102	Back Panel
	1	58000103	Right Side Cover
	1	58000104	Left Side Cover
	2	58000105	Square Rail
	2	58000106	Round Rail
	1	50005003	Rotary Switch
	1	50005004	Knob for Rotary Switch
	1	58007570	Front Panel
	4	65025603	2-56 x 3/16" Flat Head Phillips Screw
	7	65144006	4-40 x 3/8" Round Head Phillips Screw
	6	65044003	4-40 x 3/16" Flat Head Phillips Screw
	1	65944004	4-40 x 1/4" Fillister Head Screw
	10	65944005	4-40 x 5/16" Fillister Head Screw
	1	67044000	4-40 Hex Nut
	3	68000602	1/8" Nylon Shoulder Washer
	2	73010000	Stand Off
	2	73010001	Captive Screw
	1	75000002	TO-3 Insulating Cover
	1	85007570	Model 757/7157 Printed Circuit Board
	1	85007571	Model 757-1/7157-1 Printed Circuit Board