

PARTS LIST



INTERNATIONAL SIGNAL AND CONTROL CORP.

SHT.
1
OF
7

PL 0100250

REV
N

DWG TITLE P.C. BOARD ASSEMBLY, XMTR
FM-27

(UNIT 250 & UP)

PREPARED
LOF 8-23-72

CHECKED

APPROVED
[Signature] 9-18-72

UNIT OF MEASURE IS "EACH" UNLESS ONE OF
THE FOLLOWING ABBREVIATIONS IS USED:
GL=Gallons IN=Inches LB=Pounds PT=Pint
GR=Grams FT=Feet OZ=Ounces QT=Quart

ITEM NO.	QUANTITY	UNIT OF MEAS	PART NUMBER OR IDENTIFYING NUMBER	DESCRIPTION OR TITLE	CODE IDENT	MATERIAL SIZE / REFERENCE DESIGNATION	ZONE
1	1		0100210	PRINTED CIRCUIT BOARD			
2	13		102-002	CAPACITOR, .001 uF Z5F		C 1 thru 10,16,32 (101-009)	SUB
3	1		100-104	CAPACITOR, 2.2 pF NPO		C11	
4	2		100-121	CAPACITOR, 56 pF NPO		C12,14	
5	2		100-040	CAPACITOR, 39 pF NPO		C13, 82	
6	2		100-033	CAPACITOR, 33 pF NPO		C 15,55	
7	7		100-006	CAPACITOR, .01 uF		C18 thru 20,36,37,38,78	
8	1		100-120	CAPACITOR, 47 pF NPO		C21	
9	4		104-125	CAPACITOR, 330 pF DM		C22,23,24,30	
10	1		103-002	CAPACITOR, .0047 COG		C25 (ALTERNATE PART ITEM 102)	
11	1		100-007	CAPACITOR, .1 uF, 12V DISC		C26	
12	1		116-120	CAPACITOR, 1.8-16.7 pF AIR TRIM		C27 EF JOHNSON #189-506-5	
13	1		100-712	CAPACITOR, 22 pF N750		C28	
14	1		100-705	CAPACITOR, 27 pF N750		C29	
15	4		100-082	CAPACITOR, 82 pF Z5F		C33,35,39,41	
16	2		100-005	CAPACITOR, 3.9 pF NPO		C34,40	
17	1		104-100	CAPACITOR, 100 pF DM		C80	
18	1		100-116	CAPACITOR, 22 pF NPO		C62, 82	

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FM-27
(UNITS 250 & UP)

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ITEM NO.	QUANTITY	UNIT OF MEAS	PART NUMBER OR IDENTIFYING NUMBER	DESCRIPTION OR TITLE	CODE IDENT	MATERIAL SIZE / REFERENCE DESIGNATION	ZONE
19	10		102-032	CAPACITOR, 470 pF		C44, 52, 53, 56 thru 60, 63, 64, 81	
20	1		100-110	CAPACITOR 6.8 pF		C83	
21	2		101-011	CAPACITOR, .002 uF		C46, 47	
22	1		100-012	CAPACITOR, 10 pF NPO		C48	
23	1		100-002	CAPACITOR, .68 GIM		C49	
24	1		100-113	CAPACITOR, 12 pF NPO		C50	
25	1		100-114	CAPACITOR, 15 pF NPO		C54	
26	2		100-115	CAPACITOR, 18 pF NPO		C61, 79	
27	2		116-014	CAPACITOR, ARCO 406		C56, 66	
28	1		100-013	CAPACITOR, .47 uF @ 3V	MAG	C68	
29	6		100-007	CAPACITOR, .1 uF, 12V		C69, 72, 74, 75, 66, 67	
30	1		107-005	CAPACITOR, 50 uF, 15V		C70	
31	1		107-004	CAPACITOR, 5 uF, 15V		C71	
32	2		102-095	CAPACITOR, 390 25V		C51, 73	
33	1		100-116	CAPACITOR, .01 uF 6.3V TANT		C72	
34	1		182-044	INDUCTOR, STANWYCK .45-.75 (GREEN)		L1	
35	1		0100212	INDUCTOR, TORRODIAL		L2	
36	1		182-045	INDUCTOR, STANWYCK (RED)		L3	

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FM-27 (UNITS 250 & UP)

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W. J. Smith 9-18-72

UNIT OF MEASURE IS "EACH" UNLESS ONE OF THE FOLLOWING ABBREVIATIONS IS USED:
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ITEM NO.	QUANTITY	UNIT OF MEAS	PART NUMBER OR IDENTIFYING NUMBER	DESCRIPTION OR TITLE	CODE IDENT	MATERIAL SIZE / REFERENCE DESIGNATION	ZONE
37	4		182-051	INDUCTOR, P.SMITH 9½ TURNS/WHITE		L4,5,6,7	
38	4		152-048	INDUCTOR, P.SMITH 3½ TURNS/ORANGE		L8,9,10,11	
39	1		182-053	INDUCTOR, P.SMITH 2½ TURNS/PURPLE		L12	
40	1		182-057	INDUCTOR,		L13	
41	8		320-302	CANS, SHIELDING			
42	4		200-011	TRANSISTOR, 2N3563		Q1,2,9,10	
43	3		200-002	TRANSISTOR, 40673		Q3,7,8,11	
44	1		200-012	TRANSISTOR, 2N5245		Q4	
45	1		200-008	TRANSISTOR, 40347		Q5	
46	2		200-006	TRANSISTOR, MPS 3393		Q6,16	
47	1		200-017	TRANSISTOR, 2N5913		Q12	
48	3		200-015	TRANSISTOR, 2N5459		Q13,14,15	
49	1		801-076	HEAT SINK, TO-5			
50	1		801-077	HEAT SINK, TO-18			
51	10		220-472	RESISTOR, 4.7K 1/4W		R1,3,5,7,9,11,13,15,17,19	
52	11		220-473	RESISTOR, 47K 1/4W		R2,4,6,8,10,12,14,16,18,20, 23, 79	
53	5		220-332	RESISTOR, 3.3K 1/4W		R21,28,74,81,86	
54	5		220-102	RESISTOR, 1K 1/4W		R22,27,33,70,73	

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(UNITS 250 & UP)

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ITEM NO.	QUANTITY	UNIT OF MEAS	PART NUMBER OR IDENTIFYING NUMBER	DESCRIPTION OR TITLE	CODE IDENT	MATERIAL SIZE / REFERENCE DESIGNATION	ZONE
55	2		220-221	RESISTOR, 220 1/4W		R23,29,	
56	4		220-822	RESISTOR, 8.2K 1/4W		R24,25,65,78	
57	1		220-222	RESISTOR, 2.2K 1/4W		R26,27,28,31	
58	3		220-151	RESISTOR, 150 1/4W		R30, R62, 84	
59	1		220-124	RESISTOR, 120K		R76	
60			220-181	RESISTOR, 180 1/4W		R32,34,	
61	1		220-563	RESISTOR, 56K		R35	
62			220-121	RESISTOR, 120 1/4W		R36,37,31,50,51,59,	
63			220-223	RESISTOR, 22K 1/4W		R37,49,	
64	1		220-104	RESISTOR, 100K 1/4W		R38	
65	2		241-026	RESISTOR, 2.5K POT P.C. MGT.		R39,77	
66	1		220-152	RESISTOR, 1.5K 1/4W		R40	
67	3		220-122	RESISTOR, 1.2K		R61,62,64,75	
68	1		220-153	RESISTOR, 15K 1/4W		R41,63,	
69	2		220-123	RESISTOR, 12K		R45, 85	
70	2		220-331	RESISTOR, 330 1/4W		R46,47	
71	2		220-682	RESISTOR, 6.8K 1/4W		R52, 87	
72	1		220-105	RESISTOR, 100K 1/4W		R38	

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DWG TITLE P.C. BOARD ASSEMBLY, XMTR
RM-27
(UNITS 250 & UP)

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73	1		220-562	RESISTOR, 5.6K 1/4W		R60,	
74	1		220-680	RESISTOR, 68 1/4W		R68	
75	1		220-105	RESISTOR, 1M 1/4W		R69	
76	4		241-027	RESISTOR, 10K, P/C POT		R42,44,72,48	
77	1		252-060	CRYSTAL, 26.450 MHz		Y1	
78	1		252-059	CRYSTAL, 26.350 MHz		Y2	
79	1		252-058	CRYSTAL, 26.250 MHz		Y3	
80	1		252-057	CRYSTAL, 26.150 MHz		Y4	
81	1		252-056	CRYSTAL, 26.050 MHz		Y5	
82	1		252-055	CRYSTAL, 25.950 MHz		Y6	
83	1		252-054	CRYSTAL, 25.850 MHz		Y7	
84	1		252-053	CRYSTAL, 25.750 MHz		Y8	
85	1		252-052	CRYSTAL, 25.650 MHz		Y9	
86	1		252-051	CRYSTAL, 25.550 MHz		Y10	
87	1		252-050	CRYSTAL, 25.450 MHz		Y11	
88	1		290-504	SOCKETS, CRYSTAL			
89	1		143-011	DIODE, ZENER IN751 5.1V		Z1	
90	12		141-001	DIODE IN34A		CR1 thru 10,15,16	

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FM-27
(UNITS 250 & UP)

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LDF 8-23-72

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91	1		142-004	DIODE, IN914		CR11	
92	2		144-001	DIODE, BB-104 VARICAP		CR12,13 (MV-104 to be substituted later)	
93	1		182-055	R.F. CHOKE 330 uH		RFC1	
94	2		337-026	R.F. CHOKE		RFC2,4	
95	1		190-034	R.F. CHOKE 1.6 uH		RFC3	
96	267		700-002	TERMINAL PINS		TP 1 THRU 26	
97	1		200-016	TRANSISTOR 40637		Q11	
98	2		200-470	RESISTOR, 47 Ω , 1/4 W		R63,83	
99	3		200-220	RESISTOR, 22		R58,66,67	
100	1		220-272	RESISTOR, 2.7K 1/4W		R71	
101	1		220-681	RESISTOR, 680r 1/4W		R80	
102	ALT		103-003	CAPACITOR, .0047 COG		C25 (ALTERNATE TO ITEM 10)	
103	5	IN.	500-005	WIRE, TEFLON RED AWG#22			
104	3	IN.	500-005	WIRE, TEFLON RED AWG.#22			
105	2 1/2	IN.	500-101	WIRE, TEFLON WHITE/BLACK	AWG#22		
106	5 1/4	IN.	500-101	WIRE, TEFLON WHITE/BLACK	AWG.#22		
107	4 1/2	IN.	500-101	WIRE, TEFLON WHITE/BLACK	AWG.#22		
108	4	IN.	500-101	WIRE, TEFLON WHITE/BLACK	AWG.#22		



INTERNATIONAL SIGNAL AND CONTROL CORP.

BOX 388 R.D. # 3

LITITZ, PA.

17543

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FM-27 (UNIT 250 & UP)

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[illegible]

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PL 0100450

REV
M

DWG TITLE
RECEIVER P.C. BOARD ASSEMBLY
PM-27A

PREPARED
LDF 3-13-72

CHECKED

APPROVED
JP Campbell 4-1-72

UNIT OF MEASURE IS "EACH" UNLESS ONE OF THE FOLLOWING ABBREVIATIONS IS USED:
GL=Gallons IN=Inches LB=Pounds PT=Pin
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ITEM NO.	QUANTITY	UNIT OF MEAS	PART NUMBER OR IDENTIFYING NUMBER	DESCRIPTION OR TITLE	CODE IDENT	MATERIAL SIZE / REFERENCE DESIGNATION	ZONE
1	1		DWG.# 1030410	RECEIVER, P.C. BOARD			
2	1		100-121	CAPACITOR, 56 PF NPO		C 34	
3	7		102-002	CAPACITOR, .001 Uf		C 11,32,33,52,68,79,81	
4	7		102-032	CAPACITOR, 470 PF NPO		C 2,4,5,14,19,20,31	
5	4		102-100	CAPACITOR, .05 Uf		C 13,29,30,36	
6	4		102-094	CAPACITOR, .02 Uf		C 3,35,55,78	
7	13		100-007	CAPACITOR, .1 Uf		C 53,54,57,62, 38,39,40,41,42,43,44,49,50	
8	1		100-115	CAPACITOR, 18 PF NPO		C 37	
9	2		100-006	CAPACITOR, 16V $\pm 20\%$.01 Uf RMCM-16 MAGNACAP		C 51,63	
10	3		107-004	CAPACITOR, ELEC. 5UF 15V		C 61,64,80	
11	5		101-011	CAPACITOR, .002 Uf		C 12,23,45,48,56	
12	2		104-180	CAPACITOR, 180 PF, DM-15		C 47, 73	
13	2		109-004	TANTALUM 33UF, 10V ELEC.		C 59,60	
14	1		109-010	CAPACITOR, TANT. 10 Uf 10V		C 58	
15	2		107-030	CAPACITOR, ELEC. 220 Uf 15V		C 65,66	
16	1		101-009	CAPACITOR, ELEC. 910 PF		C 67	
17	1		104-100	CAPACITOR, 100 pf DM		C 69	
18	1		103-002	CAPACITOR, SM 4700 PF		C 72 (FOR ALTERNATE SEE SHT 7)	

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REV
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DWG TITLE
RECEIVER P.C. BOARD ASSEMBLY
FM-27A

PREPARED
LDE 3-13-72

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J.P. Copley 9-1-72

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19	3		104-125	CAPACITOR, 330		C 70,71, ,77	
20	1		100-114	CAPACITOR, 15 pf NPO		C83	
21	1		100-705	CAPACITOR, 27 PF N750		C74	
22	1		100-712	CAPACITOR, N750 22 Pf		C75	
23	1		116-120	CAPACITOR, TRIMMER 1-17 Pf		C 76	
24	2		116-115	CAPACITOR, TRIMMER 6-25 Pf		C 24, ,28	
25	1		100-108	CAPACITOR, 3.3 pf NPO		C 9	
26	1		100-109	CAPACITOR, 5.6 Pf NPO		C 1	
27	1		107-005	CAPACITOR, ELEC. 50 uF 15V		C 82	
28	2		100-104	CAPACITOR, 2.2 Pf NPO		C 15,16	
29	3		100-027	CAPACITOR, 27 Pf NPO		C 10,17,21	
30	2		102-063	CAPACITOR, 100 Pf		C 18,22	
31	1		100-001	CAPACITOR, .39 Pf GIM.		C ,7	
32	1		100-002	CAPACITOR, .68 Pf GIM.		C 25	
33	2		100-111	CAPACITOR, 8.2 Pf. NPO		C 6,8 ,	
34	2		266-021	FILTER, CERAMIC SFC 4.5 MA		F 1,2	
35	1		266-010	FILTER, CERAMIC CFS 455 E		F 3	
36	2		182-045	COIL, STANWYCK (RED)		L10,11	

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RECEIVER, P.C. BOARD ASSEMBLY
FM-27A

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J.P. Coughlin 9-1-72

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37	1			INDUCTOR, FLANNYON (PINK) 1000		L 11	
38	1			1000		L 11	
39	1		0100411	INDUCTOR, TOROID (19t of #28 AWG.)		L 6	
40	1		0100412	INDUCTOR, TOROID BLUE (15t of #30 AWG)		L 4	
41	1		182-042	INDUCTOR, AIR WOUND (8t of #22 AWG)		L 1	
42	3		182-053	INDUCTOR, P. SMITH (PURPLE) .04 - .06uH		L 7,8,9	
43	2		182-048	INDUCTOR, P. SMITH (ORANGE)		L 2,3	
44	1		182-040	COIL, DISCRIMINATOR		L 13	
45	1		DWG. 0100413	PERMACOR 57-3596 INDUCTOR, TOROIDAL (40t of #30 AWG)		L 12	
46	5		200-011	SEMICONDUCTOR, MOT 2N3563		Q 3,4,5,7,13	
47	4		200-002	SEMICONDUCTOR, RCA 40673		Q 1,2,6,9	
48	2		200-012	SEMICONDUCTOR, T.I. 2N5245		Q 8,14	
49	3		200-006	SEMICONDUCTOR, MOT MPS3393		Q 10,11,12	
50	1		200-008	TRANSISTOR, RCA 40347		Q 15	
51	1		200-103	SEMICONDUCTOR, MOT MPS3394		Q 16	
52	3		220-102	RESISTOR, 1K 1/4 W		R 23,35,70	
53	6		220-822	RESISTOR, 8.2K 1/4W		R 11,14,24,25,68,69	
54	7		220-223	RESISTOR, 22K 1/4W		R 5,17,21,29,47,70,79,36	

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55	3		220-683	RESISTOR, 68K 1/4 W		R 3,28,37	
56	5		220-121	RESISTOR, 120 Ω 1/4 W		R 9,30,34,52,66	
57	6		220-122	RESISTOR, 1.2K 1/4W		R 27,31,32,33,38,40	
58	4		220-820	RESISTOR, 82 Ω 1/4W		R 1,22,26,39	
59	2		220-333	RESISTOR, 33K 1/4W		R 2,6,	
60	2		220-152	RESISTOR, 1.5K 1/4W		R 43, R84	
61	2		220-470	RESISTOR, 47 Ω 1/4W		R 41,44	
62	1		220-151	RESISTOR, 150 Ω 1/4W		R 42	
63	5		220-682	RESISTOR, 6.8K 1/4W		R 45,46,48,50,64	
64	2		241-027	POT, 10K MURATA		R81,74	
65	1		240-028	RESISTOR, P.C. MOUNT POT 10K		R 53,	
66	4		220-123	RESISTOR, 12K 1/4W		R 51,57,63, 80	
67	5		220-681	RESISTOR, 680 1/4W		R 10,55,58,60, ,82	
68	2		220-563	RESISTOR, 56K 1/4W		R 56, 78	
69	2		220-472	RESISTOR, 4.7K 1/4W		R 59, ,85	
70	4		220-471	RESISTOR, 470 Ω 1/4W		R 13,61,67. 87	
71	3		220-332	RESISTOR, 3.3K 1/4W		R 16,20,62	
72	2		220-331	RESISTOR, 330 Ω 1/4W		R 76,77	

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73	1		220-272	RESISTOR, 2.7K 1/4W		R 71	
74	1		220-153	RESISTOR, 15K		R 49	
75	7		220-181	RESISTOR, 180 Ω 1/4W		R 4,7,12,15,18,19	
76	2		220-821	RESISTOR, 820 Ω 1/4W		R 8	
77	1		602-009	TRANSFORMER, I.F.		T 1	
78	1		251-017	CRYSTAL, 116 MHz		Y 1	
79	1		251-018	CRYSTAL, 117 MHz		Y 2	
80	1		140-000	DIODE, ZENER 9.1V 400 MIN	IN960	Z 1	
81	1		143-011	DIODE, ZENER IN751A		Z 2	
82	5		141-001	DIODE, IN34A		CR 1,2,3,4,9	
83	1		145-002	DIODE, IN4001		CR 5	
84	1		142-004	DIODE, IN914		CR 6	
85	1		144-001 or 144-016	DIODE, BB-104, VARICAP		CR 7,8	
86	1		201-007	CIRCUIT, INTEGRATED CA3076	RCA	IC 1	
87	1		201-003	CIRCUIT, INTEGRATED CA3075	RCA	IC 2	
88	1		201-010	CIRCUIT, INTEGRATED LM380	NSC	IC 3	
89	1		190-033	RFC 820 μ H RFC		RFC 1	
90	2		182-055	RFC 330 μ H RFC		RFC 2,4	

PARTS LIST



INTERNATIONAL SIGNAL AND CONTROL CORP.

SHT.
6
OF
7

PL 0100450

REV
M

DWG TITLE
RECEIVER P.C. BOARD ASSEMBLY
FM-27A

PREPARED
LDF 3-13-72

CHECKED

APPROVED
9-1-72

UNIT OF MEASURE IS "EACH" UNLESS ONE OF
THE FOLLOWING ABBREVIATIONS IS USED:
GL=Gallons IN=Inches LB=Pounds PT=Pin
GR=Grams FT=Feet OZ=Ounces QT=Quart

ITEM NO.	QUANTITY	UNIT OF MEAS	PART NUMBER OR IDENTIFYING NUMBER	DESCRIPTION OR TITLE	CODE IDENT	MATERIAL SIZE / REFERENCE DESIGNATION	ZONE
91	1		190-032	RFC 15uH		RFC 3	
92	1		190-018	RFC 5.8 uH		RFC 5	
93	2		290-504	CRYSTAL SOCKETS		XY 1,2	
94	1	IN.	500-006	WIRE, TEFLON, BLACK 22 GA.		W49	
95	35		700-002	TERMINAL POST		TP400-1 thru TP400-35	
97	1		104-001	CAPACITOR, 1000 PF DM		C 46	
98	1 1/2	IN.	500-017	WIRE, TINNED BUSS #26 AWG.			
99	3	IN.	500-006	WIRE, TEFLON, BLACK 22GA.		W50	
100	4		323-001	STANDOFF, HEX #6-32 IT 1 1/4" LONG		H.H. SMITH, INC. (PART NO. 8428)	
101	4		800-114	WASHER, FIBER			
102	4		800-025	SCREW, PAN HEAD #6-32 X 1/2"			
103	4		800-026	WASHER, LOCK #6-INTERNAL TOOTH			
104	4 1/2	IN.	500-104	WIRE, TWFLON, WHITE/ORANGE 22AWG.		W51	
105	1 3/4	IN.	500-104	WIRE, TEFLON #22 AWG. WHT/ORANGE		W52	
106	2 1/2	IN	500-104	WIRE, TEFLON #22 AWG. WHT/ORANGE		W53	
107	2 1/4	IN	500-104	WIRE, TEFLON #22 AWG. WHITE/ORANGE		W54	
108	2		500-054	WIRE, BUSS #20 AWG.		W55	

PARTS LIST



INTERNATIONAL SIGNAL AND CONTROL CORP.

SHT.
7
OF
7

PL 0100450

REV
M

DWC TITLE

RECEIVER P.C. BOARD ASSEMBLY
FM27A

PREPARED
LDF 3-13-72

CHECKED

APPROVED 9-1-72

UNIT OF MEASURE IS "EACH" UNLESS ONE OF THE FOLLOWING ABBREVIATIONS IS USED:
GL=Gallons IN=Inches LB=Pounds PT=Pint
GR=Grams FT=Feet OZ=Ounces QT=Quart

[illegible]

PARTS LIST



INTERNATIONAL SIGNAL & CONTROL CORPORATION

LANCASTER PENNA. 17601

SHT. 1
OF 1

PL 0100252

REV
C

DWG TITLE

XTAL EXTENSION, P.C. BOARD ASSEMBLY

PREPARED
LDF 11-15-72

CHECKED

APPROVED
11-20-72

UNIT OF MEASURE IS "EACH" UNLESS ONE OF THE FOLLOWING ABBREVIATIONS IS USED:
GL=Gallons IN=Inches LB=Pounds PT=Pint
GR=Grams FT=Feet OZ=Ounces QT=Quart

ITEM NO.	QTY	UNIT OF MEAS	ISC PART NUMBER	MANUFACTURER'S PART NUMBER	DESCRIPTION OR TITLE	MANUFACTURER/ADDRESS	REFERENCE DESIGNATION
1	1		0100251		BOARD, P.C., XTAL EXTENSION		
2	1		800-082	#723	GROUND LUG, ZIERICK	Zierick Manufacturing Co. Mt. Kisco, N.Y.	
3	1		800-004		BOLT, SPADE #4-40		
4	1		800-045		SCREW, P.H. #4-40 X 1/8" lg.		
5	1		800-003		SCREW, P.H. #4-40 X 1/4" lg.		
6	1		800-006		WASHER, LOCK IT #4-40		
7	1		800-024		NUT, HEX #4-40		
8			700-002		TERMINAL PINS 1238 KEYSTONE		TP27,28,29,
9							
10	2		220-122		RESISTOR, 1.2K 1/4W		R87,89
11							
12	1		251-017		CRYSTAL, 116 MHz		Y11
13	1		251-018		CRYSTAL, 117 MHz		Y12
14	2		142-051		DIODE, MPN 3402		CR17,18