

PERFORMANCE SPECIFICATION SHEET

SWITCHES, CODE INDICATING WHEEL (PRINTED CIRCUIT),
(THUMBWHEEL SWITCH ASSEMBLY, SEALED MODULES,
ILLUMINATED OR NON-ILLUMINATED), (TOP RELAMPABLE),
STYLE SRPC12

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the switches described herein shall consist of this document and [MIL-PRF-22710](#).

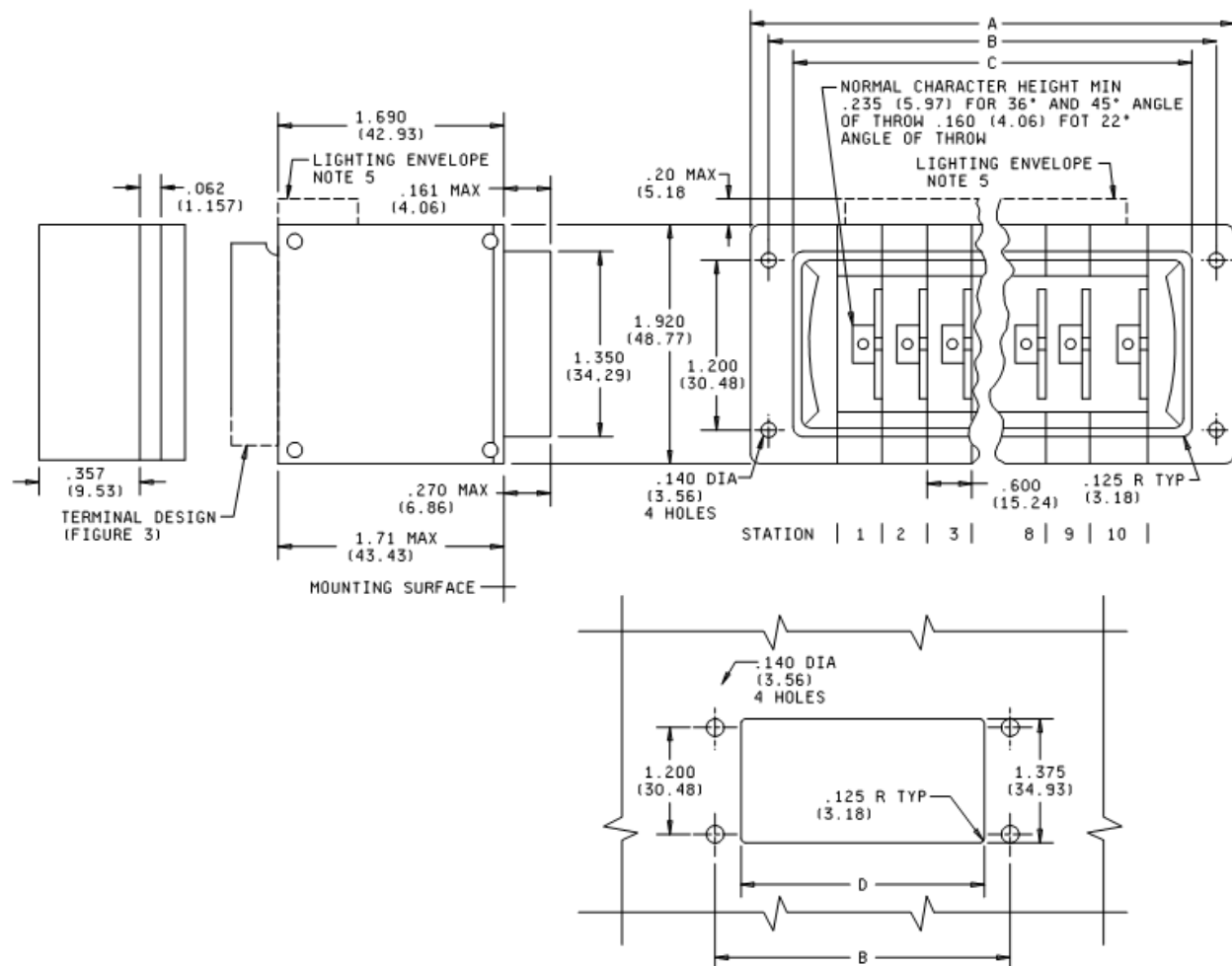


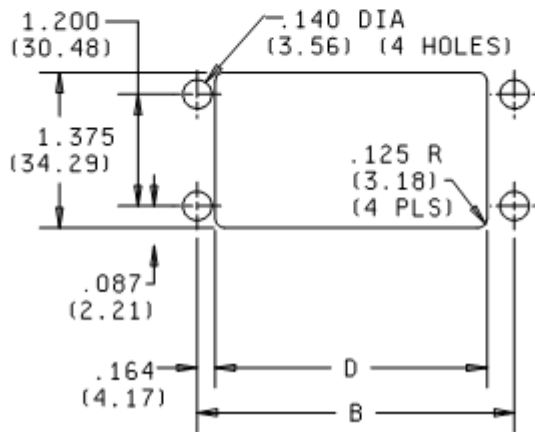
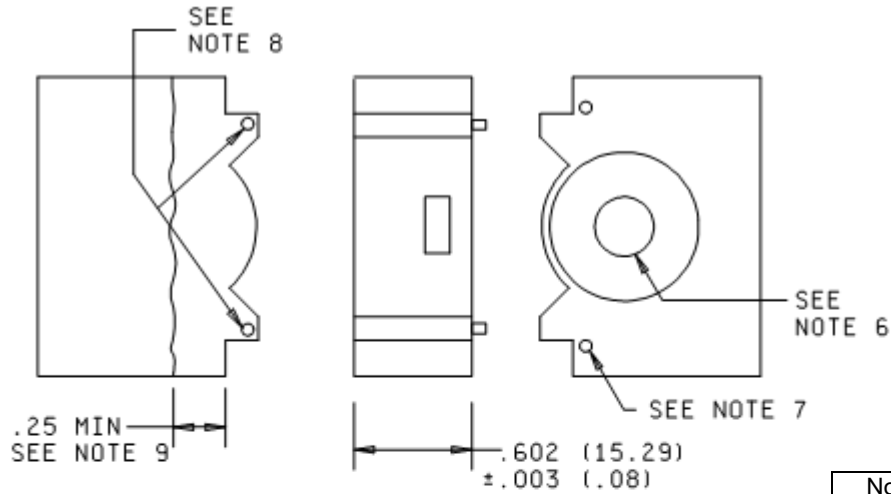
FIGURE 1. Style SRPC12 switch and panel cutout (unshielded switch)

Number of stations	Dimensions			
	A $\pm$.03 (.76)	B	C	D
1	1.80 (45.72)	1.54 (39.12)	1.19 (30.23)	1.21 (30.73)
2	2.40 (60.96)	2.14 (54.36)	1.79 (45.47)	1.81 (45.97)
3	3.00 (76.20)	2.74 (69.60)	2.39 (60.71)	2.41 (61.22)
4	3.60 (91.44)	3.34 (84.84)	2.99 (75.95)	3.04 (76.45)
5	4.20 (106.68)	3.94 (100.08)	3.59 (91.19)	3.61 (91.69)
6	4.80 (121.92)	4.54 (115.32)	4.19 (106.43)	4.21 (106.93)
7	5.40 (137.16)	5.14 (130.55)	4.79 (121.67)	4.81 (122.17)
8	6.00 (152.40)	5.74 (145.80)	5.39 (136.91)	5.41 (137.41)
9	6.60 (167.60)	6.34 (161.04)	5.99 (152.15)	6.01 (152.65)
10	7.20 (182.88)	6.94 (176.28)	6.59 (167.39)	6.61 (167.89)

NOTES:

1. Dimensions are in inches.
2. Millimeters are in parentheses.
3. Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
4. Unless otherwise specified, tolerance is ± 0.010 (0.25).
5. Applicable to illuminated switches only. Allowance for lighting terminals for externally replaceable lamps, when internal lighting is specified.
6. The conducting part of the terminal shall extend to the end of the printed circuit board to insure connector compatibility.

FIGURE 1. Style SRPC12 switch and panel cutout (unshielded switch) - Continued.



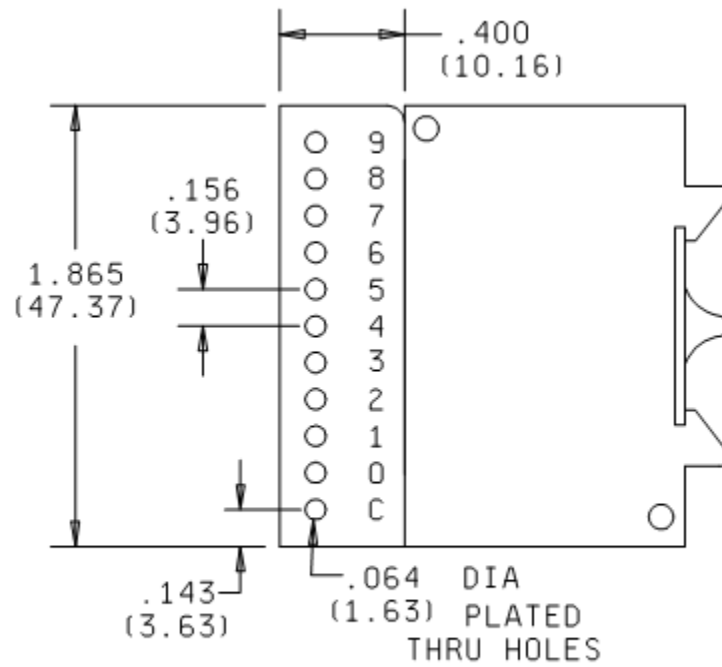
RECOMMENDED PANEL CUT-OUT

No. of Modules	Dimensions	
	D	B
1	1.21 (30.73)	1.54 (39.12)
2	1.81 (45.97)	2.14 (54.36)
3	2.41 (61.22)	2.74 (69.60)
4	3.04 (76.45)	3.34 (84.84)
5	3.61 (91.69)	3.94 (100.08)
6	4.21 (106.93)	4.54 (115.32)
7	4.81 (122.17)	5.14 (130.55)
8	5.41 (137.41)	5.74 (145.80)
9	6.01 (152.65)	6.34 (161.04)
10	6.61 (167.89)	6.94 (176.28)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents are given for general information only and are base upon 1 inch = 25.4 mm.
4. Unless otherwise specified, tolerance is $\pm .101$ (.25 mm).
5. Black matte finish over silver - for all surfaces exposed from front of panel.
6. No paint on shaft hole.
7. Paint overspray permitted in hole.
8. $.082 \pm .002$ DIA, drilled out holes.
9. Minimum silvered surface, measured from mounting surface.

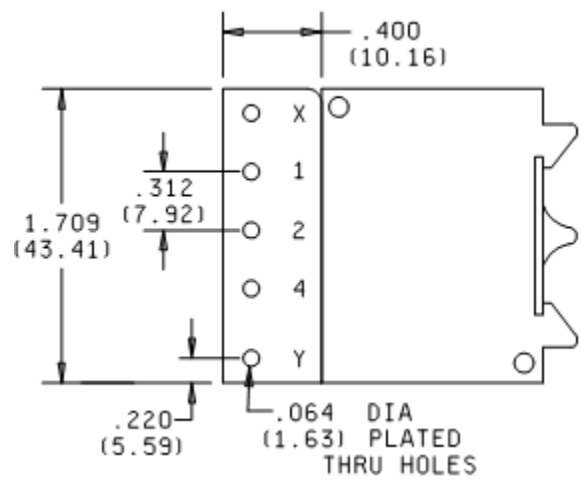
FIGURE 2. RFI Shielded switch and panel cut-out



MODULE A, A1, A2, A3, A4, or A5

TRUTH TABLE (Circuit configuration1) 36° INDEXING	
DIAL MARKING	COMMON C CONN. TO:
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

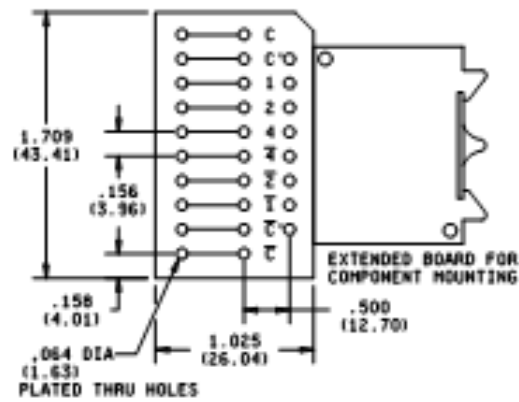
FIGURE 3. Module and circuit configuration.



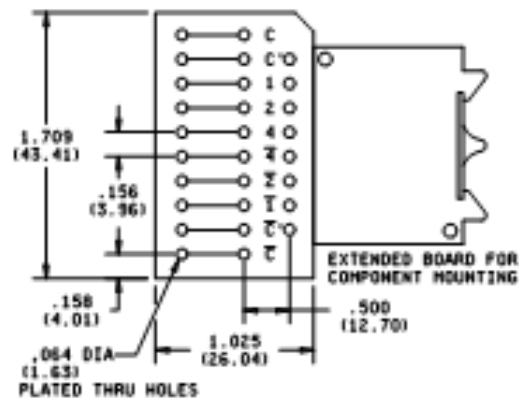
MODULE B, B1, B2, B3, B4, or B5

TRUTH TABLE (Circuit configuration 2) 45° INDEXING			
DIAL MARKING	COMMON X (●) Y (○) CONN. TO:		
	1	2	4
0	○	○	○
1	●	○	○
2	○	●	○
3	●	●	○
4	○	○	●
5	●	○	●
6	○	●	●
7	●	●	●

FIGURE 3. Module and circuit configuration - Continued



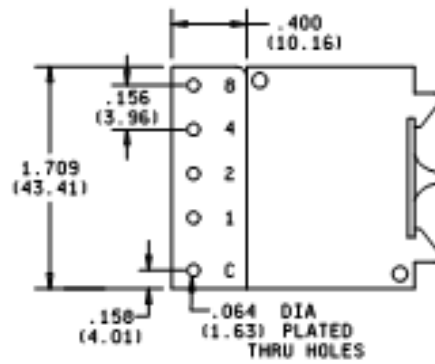
MODULE C, C1, C2, C3, C4 or C5



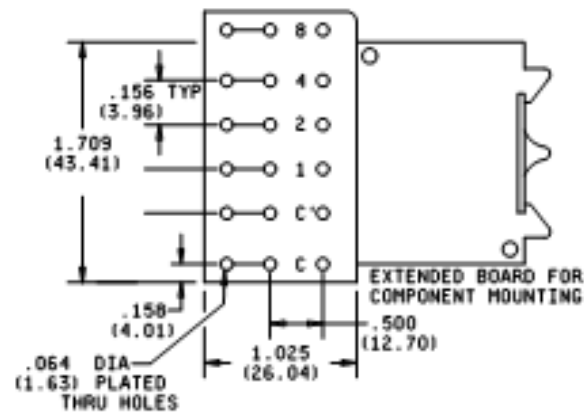
MODULE D, D1, D2, D3, D4 or D5

TRUTH TABLE (Circuit Configuration 3) 45° INDEXING						
DIAL MARKING	COMMON C CONN. TO:			COMMON $\bar{C}$ CONN. TO:		
	1	2	4	$\bar{1}$	$\bar{2}$	$\bar{4}$
0				*	*	*
1	*				*	*
2		*		*		*
3	*	*				*
4			*	*	*	
5	*		*		*	
6		*	*	*		
7	*	*	*			

FIGURE 3. Module and circuit configuration - Continued



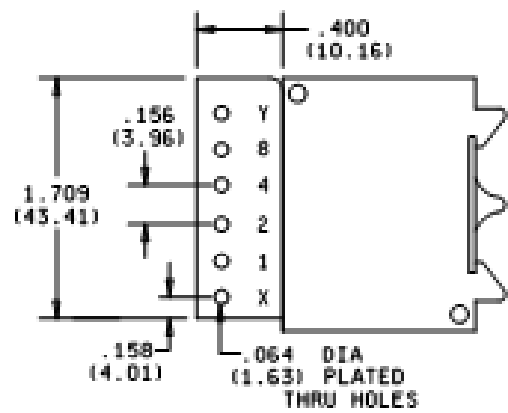
MODULE E, E1, E2, E3, E4 or E5



MODULE F, F1, F2, F3, F4 or F5

TRUTH TABLE Circuit configuration 4 38° INDEXING				
DIAL MARKING	COMMON C CONN. TO:			
	1	2	4	8
0				
1	*			
2		*		
3	*	*		
4			*	
5	*		*	
6		*	*	
7	*	*	*	
8				*
9	*			*

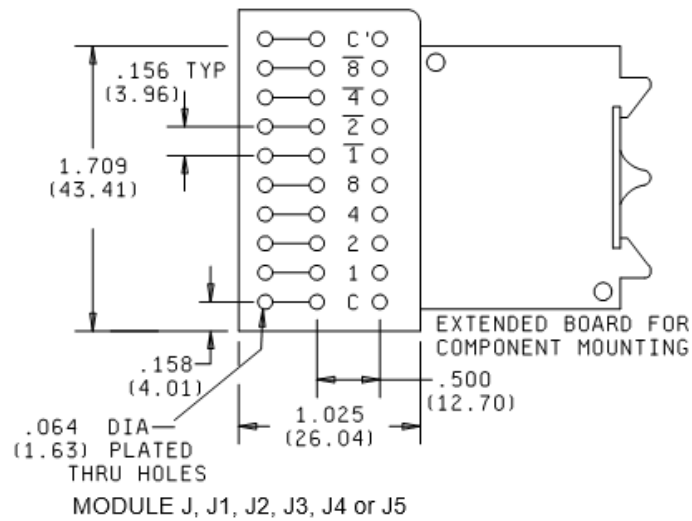
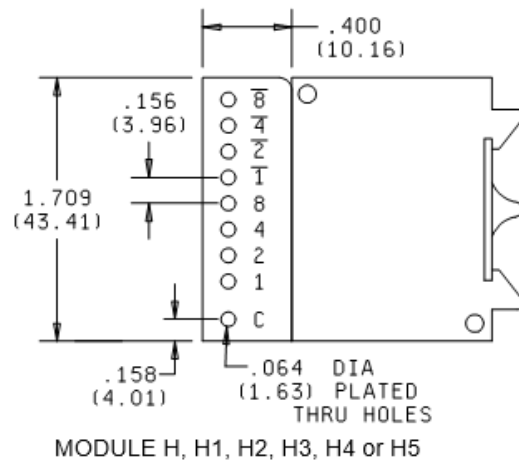
FIGURE 3. Module and circuit configuration – Continued



MODULE G, G1, G2, G3, G4 or G5

TRUTH TABLE Circuit configuration 5 36° INDEXING				
DIAL MARKING	COMMON X(•) & Y(o) CONN. TO:			
	1	2	4	8
0	o	o	o	o
1	•	o	o	o
2	o	•	o	o
3	•	•	o	o
4	o	o	•	o
5	•	o	•	o
6	o	•	•	o
7	•	•	•	o
8	o	o	o	•
9	•	o	o	•

FIGURE 3. Module and circuit configuration - Continued

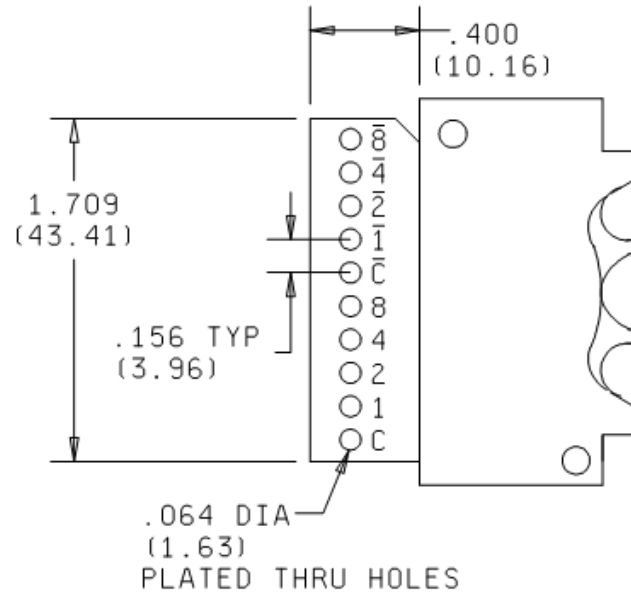


TRUTH TABLE (Circuit configuration 6) 36° INDEXING								
DIAL MARKING	COMMON C CONN. TO:							
	1	2	4	8	1	2	4	8
0					•	•	•	•
1	•					•	•	•
2		•			•		•	•
3	•	•					•	•
4			•		•	•		•
5	•		•			•		•
6		•	•		•			•
7	•	•	•					•
8				•	•	•	•	
9	•			•		•	•	

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
4. Where specified, C' is common to C and is used for component mounting.

FIGURE 3. Module and circuit configuration - Continued.



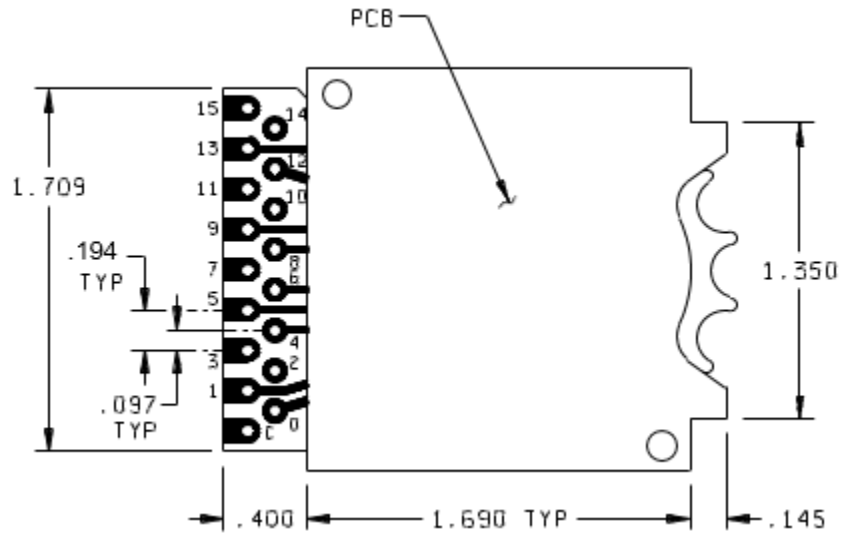
MODULE K, K1, K2, K3, K4 or K5

TRUTH TABLE (Circuit configuration 7) 22 1/2° INDEXING								
DIAL MARKING	COMMON C CONN. TO:							
	1	2	4	8	1	2	4	8
0					•	•	•	•
1	•					•	•	•
2		•			•		•	•
3	•	•					•	•
4			•		•	•		•
5	•		•			•		•
6		•	•		•			•
7	•	•	•					•
8				•	•	•	•	
9	•			•		•	•	
10		•		•	•		•	
11	•	•		•			•	
12			•	•	•	•		
13	•		•	•		•		
14		•	•	•	•			
15	•	•	•	•				

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents are given for general information only and are based upon 1 inch = 2.54 mm.
4. Where specified, C' is common to C and is used for component mounting.

FIGURE 3. Module and circuit configuration - Continued.



TRUTH TABLE (Circuit configuration 8) 22 1/2° INDEXING															
DIAL MARKING	COMMON C CONN. TO:														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
0	.														
1		.													
2			.												
3				.											
4					.										
5						.									
6							.								
7								.							
8									.						
9										.					
10											.				
11												.			
12													.		
13														.	
14															.
15															.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses and are given for general information only.
3. Where specified, C' is common to C and is used for component mounting.

FIGURE 3. Module and circuit configuration - Continued.

TABLE I. Module description. 1/

Module number	Circuit Configuration	Dial		illumination Color	EMI/RFI shielded
		Background	Marking		
A	1	Black Opaque	White Opaque	N/A	No
A1	1	"	White Translucent	Red	No
A2	1	"	White Translucent	Clear	No
A3	1	"	White Opaque	N/A	Yes
A4	1	"	White Translucent	Red	Yes
A5	1	"	White Translucent	Clear	Yes
B	2	"	White Opaque	N/A	No
B1	2	"	White Translucent	Red	No
B2	2	"	White Translucent	Clear	No
B3	2	"	White Opaque	N/A	Yes
B4	2	"	White Translucent	Red	Yes
B5	2	"	White Translucent	Clear	Yes
C	3	"	White Opaque	N/A	No
C1	3	"	White Translucent	Red	No
C2	3	"	White Translucent	Clear	No
C3	3	"	White Opaque	N/A	Yes
C4	3	"	White Translucent	Red	Yes
C5	3	"	White Translucent	Clear	Yes
D	3	"	White Opaque	N/A	No
D1	3	"	White Translucent	Red	No
D2	3	"	White Translucent	Clear	No
D3	3	"	White Opaque	N/A	Yes
D4	3	"	White Translucent	Red	Yes
D5	3	"	White Translucent	Clear	Yes

TABLE I. Module description. - Continued 1/

Module number	Circuit Configuration	Dial		illumination Color	EMI/RFI shielded
		Background	Marking		
E	4	Black Opaque	White Opaque	N/A	No
E1	4	"	White Translucent	Red	No
E2	4	"	White Translucent	Clear	No
E3	4	"	White Opaque	N/A	Yes
E4	4	"	White Translucent	Red	Yes
E5	4	"	White Translucent	Clear	Yes
F	4	"	White Opaque	N/A	No
F1	4	"	White Translucent	Red	No
F2	4	"	White Translucent	Clear	No
F3	4	"	White Opaque	N/A	Yes
F4	4	"	White Translucent	Red	Yes
F5	4	"	White Translucent	Clear	Yes
G	5	"	White Opaque	N/A	No
G1	5	"	White Translucent	Red	No
G2	5	"	White Translucent	Clear	No
G3	5	"	White Opaque	N/A	Yes
G4	5	"	White Translucent	Red	Yes
G5	5	"	White Translucent	Clear	Yes
H	6	"	White Opaque	N/A	No
H1	6	"	White Translucent	Red	No
H2	6	"	White Translucent	Clear	No
H3	6	"	White Opaque	N/A	Yes
H4	6	"	White Translucent	Red	Yes
H5	6	"	White Translucent	Clear	Yes

TABLE I. Module description. - Continued 1/

Module number	Circuit Configuration	Dial		illumination Color	EMI/RFI shielded
		Background	Marking		
J	6	Black Opaque	White Opaque	N/A	No
J1	6	"	White Translucent	Red	No
J2	6	"	White Translucent	Clear	No
J3	6	"	White Opaque	N/A	Yes
J4	6	"	White Translucent	Red	Yes
J5	6	"	White Translucent	Clear	Yes
K	7	"	White Opaque	N/A	No
K1	7	"	White Translucent	Red	No
K2	7	"	White Translucent	Clear	No
K3	7	"	White Opaque	N/A	Yes
K4	7	"	White Translucent	Red	Yes
K5	7	"	White Translucent	Clear	Yes
L	8	Black Opaque	White Opaque	N/A	No
L1	8	Black Opaque	White Opaque	Red	No
L2	8	Black Opaque	White Opaque	Clear	No
L3	8	Black Opaque	White Opaque	N/A	Yes
L4	8	Black Opaque	White Opaque	Red	Yes
L5	8	Black Opaque	White Opaque	Clear	Yes

1/ Switch modules are not procurable by themselves, but are part of the switch assembly. See table II.

TABLE II. Switch assembly

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
001	A									
002	A	A								
003	A	A	A							
004	A	A	A	A						
005	A	A	A	A	A					
006	A	A	A	A	A	A				
007	A	A	A	A	A	A	A			
008	A	A	A	A	A	A	A	A		
009	A	A	A	A	A	A	A	A	A	
010	A	A	A	A	A	A	A	A	A	A
011	A1									
012	A1	A1								
013	A1	A1	A1							
014	A1	A1	A1	A1						
015	A1	A1	A1	A1	A1					
016	A1	A1	A1	A1	A1	A1				
017	A1	A1	A1	A1	A1	A1	A1			
018	A1	A1	A1	A1	A1	A1	A1	A1		
019	A1	A1	A1	A1	A1	A1	A1	A1	A1	
020	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1
021	A2									
022	A2	A2								
023	A2	A2	A2							
024	A2	A2	A2	A2						
025	A2	A2	A2	A2	A2					
026	A2	A2	A2	A2	A2	A2				
027	A2	A2	A2	A2	A2	A2	A2			
028	A2	A2	A2	A2	A2	A2	A2	A2		
029	A2	A2	A2	A2	A2	A2	A2	A2	A2	
030	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2
031	B									
032	B	B								
033	B	B	B							
034	B	B	B	B						
035	B	B	B	B	B					
036	B	B	B	B	B	B				
037	B	B	B	B	B	B	B			
038	B	B	B	B	B	B	B	B		
039	B	B	B	B	B	B	B	B	B	
040	B	B	B	B	B	B	B	B	B	B
041	B1									
042	B1	B1								
043	B1	B1	B1							
044	B1	B1	B1	B1						
045	B1	B1	B1	B1	B1					
046	B1	B1	B1	B1	B1	B1				
047	B1	B1	B1	B1	B1	B1	B1			
048	B1	B1	B1	B1	B1	B1	B1	B1		
049	B1	B1	B1	B1	B1	B1	B1	B1	B1	
050	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1

TABLE II. Switch assembly - Continued.

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
051	B2									
052	B2	B2								
053	B2	B2	B2							
054	B2	B2	B2	B2						
055	B2	B2	B2	B2	B2					
056	B2	B2	B2	B2	B2	B2				
057	B2	B2	B2	B2	B2	B2	B2			
058	B2	B2	B2	B2	B2	B2	B2	B2		
059	B2	B2	B2	B2	B2	B2	B2	B2	B2	
060	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2
061	C									
062	C	C								
063	C	C	C							
064	C	C	C	C						
065	C	C	C	C	C					
066	C	C	C	C	C	C				
067	C	C	C	C	C	C	C			
068	C	C	C	C	C	C	C	C		
069	C	C	C	C	C	C	C	C	C	
070	C	C	C	C	C	C	C	C	C	C
071	C1									
072	C1	C1								
073	C1	C1	C1							
074	C1	C1	C1	C1						
075	C1	C1	C1	C1	C1					
076	C1	C1	C1	C1	C1	C1				
077	C1	C1	C1	C1	C1	C1	C1			
078	C1	C1	C1	C1	C1	C1	C1	C1		
079	C1	C1	C1	C1	C1	C1	C1	C1	C1	
080	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1
081	C2									
082	C2	C2								
083	C2	C2	C2							
084	C2	C2	C2	C2						
085	C2	C2	C2	C2	C2					
086	C2	C2	C2	C2	C2	C2				
087	C2	C2	C2	C2	C2	C2	C2			
088	C2	C2	C2	C2	C2	C2	C2	C2		
089	C2	C2	C2	C2	C2	C2	C2	C2	C2	
090	C2	C2	C2	C2	C2	C2	C2	C2	C2	C2
091	D									
092	D	D								
093	D	D	D							
094	D	D	D	D						
095	D	D	D	D	D					
096	D	D	D	D	D	D				
097	D	D	D	D	D	D	D			
098	D	D	D	D	D	D	D	D		
099	D	D	D	D	D	D	D	D	D	
100	D	D	D	D	D	D	D	D	D	D

TABLE II. Switch assembly - Continued.

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
101	D1									
102	D1	D1								
103	D1	D1	D1							
104	D1	D1	D1	D1						
105	D1	D1	D1	D1	D1					
106	D1	D1	D1	D1	D1	D1				
107	D1	D1	D1	D1	D1	D1	D1			
108	D1	D1	D1	D1	D1	D1	D1	D1		
109	D1	D1	D1	D1	D1	D1	D1	D1	D1	
110	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1
111	D2									
112	D2	D2								
113	D2	D2	D2							
114	D2	D2	D2	D2						
115	D2	D2	D2	D2	D2					
116	D2	D2	D2	D2	D2	D2				
117	D2	D2	D2	D2	D2	D2	D2			
118	D2	D2	D2	D2	D2	D2	D2	D2		
119	D2	D2	D2	D2	D2	D2	D2	D2	D2	
120	D2	D2	D2	D2	D2	D2	D2	D2	D2	D2
121	E									
122	E	E								
123	E	E	E							
124	E	E	E	E						
125	E	E	E	E	E					
126	E	E	E	E	E	E				
127	E	E	E	E	E	E	E			
128	E	E	E	E	E	E	E	E		
129	E	E	E	E	E	E	E	E	E	
130	E	E	E	E	E	E	E	E	E	E
131	E1									
132	E1	E1								
133	E1	E1	E1							
134	E1	E1	E1	E1						
135	E1	E1	E1	E1	E1					
136	E1	E1	E1	E1	E1	E1				
137	E1	E1	E1	E1	E1	E1	E1			
138	E1	E1	E1	E1	E1	E1	E1	E1		
139	E1	E1	E1	E1	E1	E1	E1	E1	E1	
140	E1	E1	E1	E1	E1	E1	E1	E1	E1	E1
141	E2									
142	E2	E2								
143	E2	E2	E2							
144	E2	E2	E2	E2						
145	E2	E2	E2	E2	E2					
146	E2	E2	E2	E2	E2	E2				
147	E2	E2	E2	E2	E2	E2	E2			
148	E2	E2	E2	E2	E2	E2	E2	E2		
149	E2	E2	E2	E2	E2	E2	E2	E2	E2	
150	E2	E2	E2	E2	E2	E2	E2	E2	E2	E2

TABLE II. Switch assembly - Continued.

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
151	F									
152	F	F								
153	F	F	F							
154	F	F	F	F						
155	F	F	F	F	F					
156	F	F	F	F	F	F				
157	F	F	F	F	F	F	F			
158	F	F	F	F	F	F	F	F		
159	F	F	F	F	F	F	F	F	F	
160	F	F	F	F	F	F	F	F	F	F
161	F1									
162	F1	F1								
163	F1	F1	F1							
164	F1	F1	F1	F1						
165	F1	F1	F1	F1	F1					
166	F1	F1	F1	F1	F1	F1				
167	F1	F1	F1	F1	F1	F1	F1			
168	F1	F1	F1	F1	F1	F1	F1	F1		
169	F1	F1	F1	F1	F1	F1	F1	F1	F1	
170	F1	F1	F1	F1	F1	F1	F1	F1	F1	F1
171	F2									
172	F2	F2								
173	F2	F2	F2							
174	F2	F2	F2	F2						
175	F2	F2	F2	F2	F2					
176	F2	F2	F2	F2	F2	F2				
177	F2	F2	F2	F2	F2	F2	F2			
178	F2	F2	F2	F2	F2	F2	F2	F2		
179	F2	F2	F2	F2	F2	F2	F2	F2	F2	
180	F2	F2	F2	F2	F2	F2	F2	F2	F2	F2
181	G									
182	G	G								
183	G	G	G							
184	G	G	G	G						
185	G	G	G	G	G					
186	G	G	G	G	G	G				
187	G	G	G	G	G	G	G			
188	G	G	G	G	G	G	G	G		
189	G	G	G	G	G	G	G	G	G	
190	G	G	G	G	G	G	G	G	G	G
191	G1									
192	G1	G1								
193	G1	G1	G1							
194	G1	G1	G1	G1						
195	G1	G1	G1	G1	G1					
196	G1	G1	G1	G1	G1	G1				
197	G1	G1	G1	G1	G1	G1	G1			
198	G1	G1	G1	G1	G1	G1	G1	G1		
199	G1	G1	G1	G1	G1	G1	G1	G1	G1	
200	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1

TABLE II. Switch assembly - Continued.

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
201	G2									
202	G2	G2								
203	G2	G2	G2							
204	G2	G2	G2	G2						
205	G2	G2	G2	G2	G2					
206	G2	G2	G2	G2	G2	G2				
207	G2	G2	G2	G2	G2	G2	G2			
208	G2	G2	G2	G2	G2	G2	G2	G2		
209	G2	G2	G2	G2	G2	G2	G2	G2	G2	
210	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
211	H									
212	H	H								
213	H	H	H							
214	H	H	H	H						
215	H	H	H	H	H					
216	H	H	H	H	H	H				
217	H	H	H	H	H	H	H			
218	H	H	H	H	H	H	H	H		
219	H	H	H	H	H	H	H	H	H	
220	H	H	H	H	H	H	H	H	H	H
221	H1									
222	H1	H1								
223	H1	H1	H1							
224	H1	H1	H1	H1						
225	H1	H1	H1	H1	H1					
226	H1	H1	H1	H1	H1	H1				
227	H1	H1	H1	H1	H1	H1	H1			
228	H1	H1	H1	H1	H1	H1	H1	H1		
229	H1	H1	H1	H1	H1	H1	H1	H1	H1	
230	H1	H1	H1	H1	H1	H1	H1	H1	H1	H1
231	H2									
232	H2	H2								
233	H2	H2	H2							
234	H2	H2	H2	H2						
235	H2	H2	H2	H2	H2					
236	H2	H2	H2	H2	H2	H2				
237	H2	H2	H2	H2	H2	H2	H2			
238	H2	H2	H2	H2	H2	H2	H2	H2		
239	H2	H2	H2	H2	H2	H2	H2	H2	H2	
240	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2
241	J									
242	J	J								
243	J	J	J							
244	J	J	J	J						
245	J	J	J	J	J					
246	J	J	J	J	J	J				
247	J	J	J	J	J	J	J			
248	J	J	J	J	J	J	J	J		
249	J	J	J	J	J	J	J	J	J	
250	J	J	J	J	J	J	J	J	J	J

TABLE II. Switch assembly - Continued.

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
251	J1									
252	J1	J1								
253	J1	J1	J1							
254	J1	J1	J1	J1						
255	J1	J1	J1	J1	J1					
256	J1	J1	J1	J1	J1	J1				
257	J1	J1	J1	J1	J1	J1	J1			
258	J1	J1	J1	J1	J1	J1	J1	J1		
259	J1	J1	J1	J1	J1	J1	J1	J1	J1	
260	J1	J1	J1	J1	J1	J1	J1	J1	J1	J1
261	J2									
262	J2	J2								
263	J2	J2	J2							
264	J2	J2	J2	J2						
265	J2	J2	J2	J2	J2					
266	J2	J2	J2	J2	J2	J2				
267	J2	J2	J2	J2	J2	J2	J2			
268	J2	J2	J2	J2	J2	J2	J2	J2		
269	J2	J2	J2	J2	J2	J2	J2	J2	J2	
270	J2	J2	J2	J2	J2	J2	J2	J2	J2	J2
271	K									
272	K	K								
273	K	K	K							
274	K	K	K	K						
275	K	K	K	K	K					
276	K	K	K	K	K	K				
277	K	K	K	K	K	K	K			
278	K	K	K	K	K	K	K	K		
279	K	K	K	K	K	K	K	K	K	
280	K	K	K	K	K	K	K	K	K	K
281	K1									
282	K1	K1								
283	K1	K1	K1							
284	K1	K1	K1	K1						
285	K1	K1	K1	K1	K1					
286	K1	K1	K1	K1	K1	K1				
287	K1	K1	K1	K1	K1	K1	K1			
288	K1	K1	K1	K1	K1	K1	K1	K1		
289	K1	K1	K1	K1	K1	K1	K1	K1	K1	
290	K1	K1	K1	K1	K1	K1	K1	K1	K1	K1
291	K2									
292	K2	K2								
293	K2	K2	K2							
294	K2	K2	K2	K2						
295	K2	K2	K2	K2	K2					
296	K2	K2	K2	K2	K2	K2				
297	K2	K2	K2	K2	K2	K2	K2			
298	K2	K2	K2	K2	K2	K2	K2	K2		
299	K2	K2	K2	K2	K2	K2	K2	K2	K2	
300	K2	K2	K2	K2	K2	K2	K2	K2	K2	K2

TABLE II. Switch assembly - Continued.

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
301	A3									
302	A3	A3								
303	A3	A3	A3							
304	A3	A3	A3	A3						
305	A3	A3	A3	A3	A3					
306	A3	A3	A3	A3	A3	A3				
307	A3	A3	A3	A3	A3	A3	A3			
308	A3	A3	A3	A3	A3	A3	A3	A3		
309	A3	A3	A3	A3	A3	A3	A3	A3	A3	
310	A3	A3	A3	A3	A3	A3	A3	A3	A3	A3
311	A4									
312	A4	A4								
313	A4	A4	A4							
314	A4	A4	A4	A4						
315	A4	A4	A4	A4	A4					
316	A4	A4	A4	A4	A4	A4				
317	A4	A4	A4	A4	A4	A4	A4			
318	A4	A4	A4	A4	A4	A4	A4	A4		
319	A4	A4	A4	A4	A4	A4	A4	A4	A4	
320	A4	A4	A4	A4	A4	A4	A4	A4	A4	A4
321	A5									
322	A5	A5								
323	A5	A5	A5							
324	A5	A5	A5	A5						
325	A5	A5	A5	A5	A5					
326	A5	A5	A5	A5	A5	A5				
327	A5	A5	A5	A5	A5	A5	A5			
328	A5	A5	A5	A5	A5	A5	A5	A5		
329	A5	A5	A5	A5	A5	A5	A5	A5	A5	
330	A5	A5	A5	A5	A5	A5	A5	A5	A5	A5
331	B3									
332	B3	B3								
333	B3	B3	B3							
334	B3	B3	B3	B3						
335	B3	B3	B3	B3	B3					
336	B3	B3	B3	B3	B3	B3				
337	B3	B3	B3	B3	B3	B3	B3			
338	B3	B3	B3	B3	B3	B3	B3	B3		
339	B3	B3	B3	B3	B3	B3	B3	B3	B3	
340	B3	B3	B3	B3	B3	B3	B3	B3	B3	B3
341	B4									
342	B4	B4								
343	B4	B4	B4							
344	B4	B4	B4	B4						
345	B4	B4	B4	B4	B4					
346	B4	B4	B4	B4	B4	B4				
347	B4	B4	B4	B4	B4	B4	B4			
348	B4	B4	B4	B4	B4	B4	B4	B4		
349	B4	B4	B4	B4	B4	B4	B4	B4	B4	
350	B4	B4	B4	B4	B4	B4	B4	B4	B4	B4

TABLE II. Switch assembly - Continued.

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
351	B5									
352	B5	B5								
353	B5	B5	B5							
354	B5	B5	B5	B5						
355	B5	B5	B5	B5	B5					
356	B5	B5	B5	B5	B5	B5				
357	B5	B5	B5	B5	B5	B5	B5			
358	B5	B5	B5	B5	B5	B5	B5	B5		
359	B5	B5	B5	B5	B5	B5	B5	B5	B5	
360	B5	B5	B5	B5	B5	B5	B5	B5	B5	B5
361	C3									
362	C3	C3								
363	C3	C3	C3							
364	C3	C3	C3	C3						
365	C3	C3	C3	C3	C3					
366	C3	C3	C3	C3	C3	C3				
367	C3	C3	C3	C3	C3	C3	C3			
368	C3	C3	C3	C3	C3	C3	C3	C3		
369	C3	C3	C3	C3	C3	C3	C3	C3	C3	
370	C3	C3	C3	C3	C3	C3	C3	C3	C3	C3
371	C4									
372	C4	C4								
373	C4	C4	C4							
374	C4	C4	C4	C4						
375	C4	C4	C4	C4	C4					
376	C4	C4	C4	C4	C4	C4				
377	C4	C4	C4	C4	C4	C4	C4			
378	C4	C4	C4	C4	C4	C4	C4	C4		
379	C4	C4	C4	C4	C4	C4	C4	C4	C4	
380	C4	C4	C4	C4	C4	C4	C4	C4	C4	C4
381	C5									
382	C5	C5								
383	C5	C5	C5							
384	C5	C5	C5	C5						
385	C5	C5	C5	C5	C5					
386	C5	C5	C5	C5	C5	C5				
387	C5	C5	C5	C5	C5	C5	C5			
388	C5	C5	C5	C5	C5	C5	C5	C5		
389	C5	C5	C5	C5	C5	C5	C5	C5	C5	
390	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5
391	D3									
392	D3	D3								
393	D3	D3	D3							
394	D3	D3	D3	D3						
395	D3	D3	D3	D3	D3					
396	D3	D3	D3	D3	D3	D3				
397	D3	D3	D3	D3	D3	D3	D3			
398	D3	D3	D3	D3	D3	D3	D3	D3		
399	D3	D3	D3	D3	D3	D3	D3	D3	D3	
400	D3	D3	D3	D3	D3	D3	D3	D3	D3	D3

TABLE II. Switch assembly - Continued.

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
401	D4									
402	D4	D4								
403	D4	D4	D4							
404	D4	D4	D4	D4						
405	D4	D4	D4	D4	D4					
406	D4	D4	D4	D4	D4	D4				
407	D4	D4	D4	D4	D4	D4	D4			
408	D4	D4	D4	D4	D4	D4	D4	D4		
409	D4	D4	D4	D4	D4	D4	D4	D4	D4	
410	D4	D4	D4	D4	D4	D4	D4	D4	D4	D4
411	D5									
412	D5	D5								
413	D5	D5	D5							
414	D5	D5	D5	D5						
415	D5	D5	D5	D5	D5					
416	D5	D5	D5	D5	D5	D5				
417	D5	D5	D5	D5	D5	D5	D5			
418	D5	D5	D5	D5	D5	D5	D5	D5		
419	D5	D5	D5	D5	D5	D5	D5	D5	D5	
420	D5	D5	D5	D5	D5	D5	D5	D5	D5	D5
421	E3									
422	E3	E3								
423	E3	E3	E3							
424	E3	E3	E3	E3						
425	E3	E3	E3	E3	E3					
426	E3	E3	E3	E3	E3	E3				
427	E3	E3	E3	E3	E3	E3	E3			
428	E3	E3	E3	E3	E3	E3	E3	E3		
429	E3	E3	E3	E3	E3	E3	E3	E3	E3	
430	E3	E3	E3	E3	E3	E3	E3	E3	E3	E3
431	E4									
432	E4	E4								
433	E4	E4	E4							
434	E4	E4	E4	E4						
435	E4	E4	E4	E4	E4					
436	E4	E4	E4	E4	E4	E4				
437	E4	E4	E4	E4	E4	E4	E4			
438	E4	E4	E4	E4	E4	E4	E4	E4		
439	E4	E4	E4	E4	E4	E4	E4	E4	E4	
440	E4	E4	E4	E4	E4	E4	E4	E4	E4	E4
441	E5									
442	E5	E5								
443	E5	E5	E5							
444	E5	E5	E5	E5						
445	E5	E5	E5	E5	E5					
446	E5	E5	E5	E5	E5	E5				
447	E5	E5	E5	E5	E5	E5	E5			
448	E5	E5	E5	E5	E5	E5	E5	E5		
449	E5	E5	E5	E5	E5	E5	E5	E5	E5	
450	E5	E5	E5	E5	E5	E5	E5	E5	E5	E5

TABLE II. Switch assembly - Continued.

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
451	F3									
452	F3	F3								
453	F3	F3	F3							
454	F3	F3	F3	F3						
455	F3	F3	F3	F3	F3					
456	F3	F3	F3	F3	F3	F3				
457	F3	F3	F3	F3	F3	F3	F3			
458	F3	F3	F3	F3	F3	F3	F3	F3		
459	F3	F3	F3	F3	F3	F3	F3	F3	F3	
460	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3
461	F4									
462	F4	F4								
463	F4	F4	F4							
464	F4	F4	F4	F4						
465	F4	F4	F4	F4	F4					
466	F4	F4	F4	F4	F4	F4				
467	F4	F4	F4	F4	F4	F4	F4			
468	F4	F4	F4	F4	F4	F4	F4	F4		
469	F4	F4	F4	F4	F4	F4	F4	F4	F4	
470	F4	F4	F4	F4	F4	F4	F4	F4	F4	F4
471	F5									
472	F5	F5								
473	F5	F5	F5							
474	F5	F5	F5	F5						
475	F5	F5	F5	F5	F5					
476	F5	F5	F5	F5	F5	F5				
477	F5	F5	F5	F5	F5	F5	F5			
478	F5	F5	F5	F5	F5	F5	F5	F5		
479	F5	F5	F5	F5	F5	F5	F5	F5	F5	
480	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5
481	G3									
482	G3	G3								
483	G3	G3	G3							
484	G3	G3	G3	G3						
485	G3	G3	G3	G3	G3					
486	G3	G3	G3	G3	G3	G3				
487	G3	G3	G3	G3	G3	G3	G3			
488	G3	G3	G3	G3	G3	G3	G3	G3		
489	G3	G3	G3	G3	G3	G3	G3	G3	G3	
490	G3	G3	G3	G3	G3	G3	G3	G3	G3	G3
491	G4									
492	G4	G4								
493	G4	G4	G4							
494	G4	G4	G4	G4						
495	G4	G4	G4	G4	G4					
496	G4	G4	G4	G4	G4	G4				
497	G4	G4	G4	G4	G4	G4	G4			
498	G4	G4	G4	G4	G4	G4	G4	G4		
499	G4	G4	G4	G4	G4	G4	G4	G4	G4	
500	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4

TABLE II. Switch assembly - Continued.

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
501	G5									
502	G5	G5								
503	G5	G5	G5							
504	G5	G5	G5	G5						
505	G5	G5	G5	G5	G5					
506	G5	G5	G5	G5	G5	G5				
507	G5	G5	G5	G5	G5	G5	G5			
508	G5	G5	G5	G5	G5	G5	G5	G5		
509	G5	G5	G5	G5	G5	G5	G5	G5	G5	
510	G5	G5	G5	G5	G5	G5	G5	G5	G5	G5
511	H3									
512	H3	H3								
513	H3	H3	H3							
514	H3	H3	H3	H3						
515	H3	H3	H3	H3	H3					
516	H3	H3	H3	H3	H3	H3				
517	H3	H3	H3	H3	H3	H3	H3			
518	H3	H3	H3	H3	H3	H3	H3	H3		
519	H3	H3	H3	H3	H3	H3	H3	H3	H3	
520	H3	H3	H3	H3	H3	H3	H3	H3	H3	H3
521	H4									
522	H4	H4								
523	H4	H4	H4							
524	H4	H4	H4	H4						
525	H4	H4	H4	H4	H4					
526	H4	H4	H4	H4	H4	H4				
527	H4	H4	H4	H4	H4	H4	H4			
528	H4	H4	H4	H4	H4	H4	H4	H4		
529	H4	H4	H4	H4	H4	H4	H4	H4	H4	
530	H4	H4	H4	H4	H4	H4	H4	H4	H4	H4
531	H5									
532	H5	H5								
533	H5	H5	H5							
534	H5	H5	H5	H5						
535	H5	H5	H5	H5	H5					
536	H5	H5	H5	H5	H5	H5				
537	H5	H5	H5	H5	H5	H5	H5			
538	H5	H5	H5	H5	H5	H5	H5	H5		
539	H5	H5	H5	H5	H5	H5	H5	H5	H5	
540	H5	H5	H5	H5	H5	H5	H5	H5	H5	H5
541	J3									
542	J3	J3								
543	J3	J3	J3							
544	J3	J3	J3	J3						
545	J3	J3	J3	J3	J3					
546	J3	J3	J3	J3	J3	J3				
547	J3	J3	J3	J3	J3	J3	J3			
548	J3	J3	J3	J3	J3	J3	J3	J3		
549	J3	J3	J3	J3	J3	J3	J3	J3	J3	
550	J3	J3	J3	J3	J3	J3	J3	J3	J3	J3

TABLE II. Switch assembly - Continued.

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
551	J4									
552	J4	J4								
553	J4	J4	J4							
554	J4	J4	J4	J4						
555	J4	J4	J4	J4	J4					
556	J4	J4	J4	J4	J4	J4				
557	J4	J4	J4	J4	J4	J4	J4			
558	J4	J4	J4	J4	J4	J4	J4	J4		
559	J4	J4	J4	J4	J4	J4	J4	J4	J4	
560	J4	J4	J4	J4	J4	J4	J4	J4	J4	J4
561	J5									
562	J5	J5								
563	J5	J5	J5							
564	J5	J5	J5	J5						
565	J5	J5	J5	J5	J5					
566	J5	J5	J5	J5	J5	J5				
567	J5	J5	J5	J5	J5	J5	J5			
568	J5	J5	J5	J5	J5	J5	J5	J5		
569	J5	J5	J5	J5	J5	J5	J5	J5	J5	
570	J5	J5	J5	J5	J5	J5	J5	J5	J5	J5
571	K3									
572	K3	K3								
573	K3	K3	K3							
574	K3	K3	K3	K3						
575	K3	K3	K3	K3	K3					
576	K3	K3	K3	K3	K3	K3				
577	K3	K3	K3	K3	K3	K3	K3			
578	K3	K3	K3	K3	K3	K3	K3	K3		
579	K3	K3	K3	K3	K3	K3	K3	K3	K3	
580	K3	K3	K3	K3	K3	K3	K3	K3	K3	K3
581	K4									
582	K4	K4								
583	K4	K4	K4							
584	K4	K4	K4	K4						
585	K4	K4	K4	K4	K4					
586	K4	K4	K4	K4	K4	K4				
587	K4	K4	K4	K4	K4	K4	K4			
588	K4	K4	K4	K4	K4	K4	K4	K4		
589	K4	K4	K4	K4	K4	K4	K4	K4	K4	
590	K4	K4	K4	K4	K4	K4	K4	K4	K4	K4
591	K5									
592	K5	K5								
593	K5	K5	K5							
594	K5	K5	K5	K5						
595	K5	K5	K5	K5	K5					
596	K5	K5	K5	K5	K5	K5				
597	K5	K5	K5	K5	K5	K5	K5			
598	K5	K5	K5	K5	K5	K5	K5	K5		
599	K5	K5	K5	K5	K5	K5	K5	K5	K5	
600	K5	K5	K5	K5	K5	K5	K5	K5	K5	K5

TABLE II. Switch assembly - Continued.

Part	Switch station module number									
Number M22710/12-	1	2	3	4	5	6	7	8	9	10
601	L									
602	L	L								
603	L	L	L							
604	L	L	L	L						
605	L	L	L	L	L					
606	L	L	L	L	L	L				
607	L	L	L	L	L	L	L			
608	L	L	L	L	L	L	L	L		
609	L	L	L	L	L	L	L	L	L	
610	L	L	L	L	L	L	L	L	L	L
611	L1									
612	L1	L1								
613	L1	L1	L1							
614	L1	L1	L1	L1						
615	L1	L1	L1	L1	L1					
616	L1	L1	L1	L1	L1	L1				
617	L1	L1	L1	L1	L1	L1	L1			
618	L1	L1	L1	L1	L1	L1	L1	L1		
619	L1	L1	L1	L1	L1	L1	L1	L1	L1	
620	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
621	L2									
622	L2	L2								
623	L2	L2	L2							
624	L2	L2	L2	L2						
625	L2	L2	L2	L2	L2					
626	L2	L2	L2	L2	L2	L2				
627	L2	L2	L2	L2	L2	L2	L2			
628	L2	L2	L2	L2	L2	L2	L2	L2		
629	L2	L2	L2	L2	L2	L2	L2	L2	L2	
630	L2	L2	L2	L2	L2	L2	L2	L2	L2	L2
631	L3									
632	L3	L3								
633	L3	L3	L3							
634	L3	L3	L3	L3						
635	L3	L3	L3	L3	L3					
636	L3	L3	L3	L3	L3	L3				
637	L3	L3	L3	L3	L3	L3	L3			
638	L3	L3	L3	L3	L3	L3	L3	L3		
639	L3	L3	L3	L3	L3	L3	L3	L3	L3	
640	L3	L3	L3	L3	L3	L3	L3	L3	L3	L3
641	L4									
642	L4	L4								
643	L4	L4	L4							
644	L4	L4	L4	L4						
645	L4	L4	L4	L4	L4					
646	L4	L4	L4	L4	L4	L4				
647	L4	L4	L4	L4	L4	L4	L4			
648	L4	L4	L4	L4	L4	L4	L4	L4		
649	L4	L4	L4	L4	L4	L4	L4	L4	L4	
650	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4

TABLE II. Switch assembly - Continued.

Part Number M22710/12-	Switch station module number									
	1	2	3	4	5	6	7	8	9	10
651	L5									
652	L5	L5								
653	L5	L5	L5							
654	L5	L5	L5	L5						
655	L5	L5	L5	L5	L5					
656	L5	L5	L5	L5	L5	L5				
657	L5	L5	L5	L5	L5	L5	L5			
658	L5	L5	L5	L5	L5	L5	L5	L5		
659	L5	L5	L5	L5	L5	L5	L5	L5	L5	
660	L5	L5	L5	L5	L5	L5	L5	L5	L5	L5

REQUIREMENTS:

Dimensions and configuration: See figures 1, 2, and 3.

Construction: D.

Indexing: 22, 36 or 45 degrees. See truth tables in figure 3.

Temperature-life characteristic: B. For lighted switches, maximum temperature is 71°C.

Vibration grade: 3 (15g, 10 - 2,000 Hz).

Shock type: M(100g) and H (high-impact). Methods I and II of [MIL-PRF-22710](#) are applicable.

Altitude rating: 0 (under 10,000 feet).

Terminal design: See figure 3.

Connector compatibility: [MIL-DTL-21097](#).

Moisture resistance; Method II of [MIL-PRF-22710](#).

Operating force (tangential): 5 ounces minimum, 22 ounces maximum.

Seal: Method I of [MIL-PRF-22710](#). (NOTE: Only individual switch modules are sealed. When a switch assembly is to be used in applications requiring sealed panels or enclosures, special provisions must be made to provide suitable seal(s) for the complete switch assembly.)

Acceleration: Applicable.

Sand and dust: Applicable.

Explosion: Applicable.

EMI/RFI shielding: Applicable, where specified.

Luminance: For illuminated switches only (see table III)

TABLE III. Photometric brightness.

For Modules A-L				
Lamp	Switch Filter	Brightness	Rating	
			Volts	Amperes
M6363/6 or equivalent	Clear	2.0 ± 1.0 foot-lamberts	5	0.115
	Red	1.0 ± 0.5 foot-lamberts	5	0.115
Option for For Module L Only <u>1/</u>				
MS3338- 683/AS15 or equivalent	Clear	2.0 ± 1.0 foot-lamberts	28	0.024
	Red	1.0 ± 0.5 foot-lamberts	28	0.024

1/ If the [MS3338](#), 28V lamp is desired, add a “z” to the end of the part number. For example M22710/12-651Z would have the 28V clear lamp and the M22710/12-651 would have the M6363/6, 5V lamp.

2/ M6363/6 details are found in [MIL-DTL-6363/6](#).

Military part number: See tables I ,II, and III.

Life (rotational): [MIL-STD-202-206](#) , test condition G, (see table IV).

TABLE IV. Electrical test load.

Test or condition	Resistive	
At atmospheric pressure	0.125 Ampere	28 V dc
Life (low level)	10 mA	30 mV

Caution: Isopropyl alcohol recommended for cleaning and solder-flux removal. Avoid the use of acids, ammonia, chlorinated or aromatic hydrocarbons, and oxygenated solvents.

The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the previous issue.

Reference Documents:

[MIL-PRF-22710](#) [MIL-STD-202-206](#) [MIL-DTL-6363/6](#)
[MIL-DTL-21097](#) [MS3338](#)

Custodians:

Army - CR
Navy- EC
Air Force - 85
DLA - CC

Preparing activity:

DLA - CC

(Project 5930-2024-71)

Review activities:

Army - CR4, MI, SM
Navy - AS, MC

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil/> .