

## Series 48SS

### MINIATURE HALL-EFFECT SEALED

This rugged sealed pushbutton switch uses a Hall-Effect sensor to achieve extremely long life, up to 1,000,000 cycles momentary. This switch is suited for harsh environments where long life and reliability are needed.



### APPLICATIONS

- Communications
- Data entry
- Hand-held control modules
- Outdoor controls
- Mass transport controls
- Instrumentation

### KEY FEATURES:

- 1,000,000 cycles momentary
- Momentary and maintained action
- Hall-Effect technology
- Choice of LED colors (or non-lighted versions)
- Panel sealed to IP67
- Variety of Button colors
- Square and round versions available

ACTUAL SIZE

### ORDERING INFORMATION:

Switch Function	Switch Termination	Module Type	Bezel Type	LED Color	Button Color	Mounting Type	Voltage Resistor
Momentary	Solder Tabs	<b>48-3</b>	<b>RB</b> - Round, Black	<b>N</b> - None	<b>RD</b> - Red	<b>B</b> - Bushing	If Blank*
Maintained	Solder Tabs	<b>48-4</b>	<b>SB</b> - Square, Black	<b>R</b> - Red	<b>GR</b> - Green	<b>S</b> - Snap-fit	<b>05</b> - 5V forward
Momentary	PC	<b>48-7</b>	<b>RC</b> - Round, Chrome	<b>G</b> - Green	<b>BK</b> - Black		
Maintained	PC	<b>48-8</b>	<b>SC</b> - Square, Chrome	<b>Y</b> - Yellow	<b>BL</b> - Blue		
Momentary	Wire Leads	<b>48-C</b>		<b>A</b> - Amber	<b>YL</b> - Yellow		
Maintained	Wire Leads	<b>48-D</b>		<b>B</b> - Blue	<b>OR</b> - Orange		
				<b>W</b> - White	<b>CR</b> - Chrome		
					<b>PK</b> - Black with Standby Symbol		
					<b>WH</b> - White		

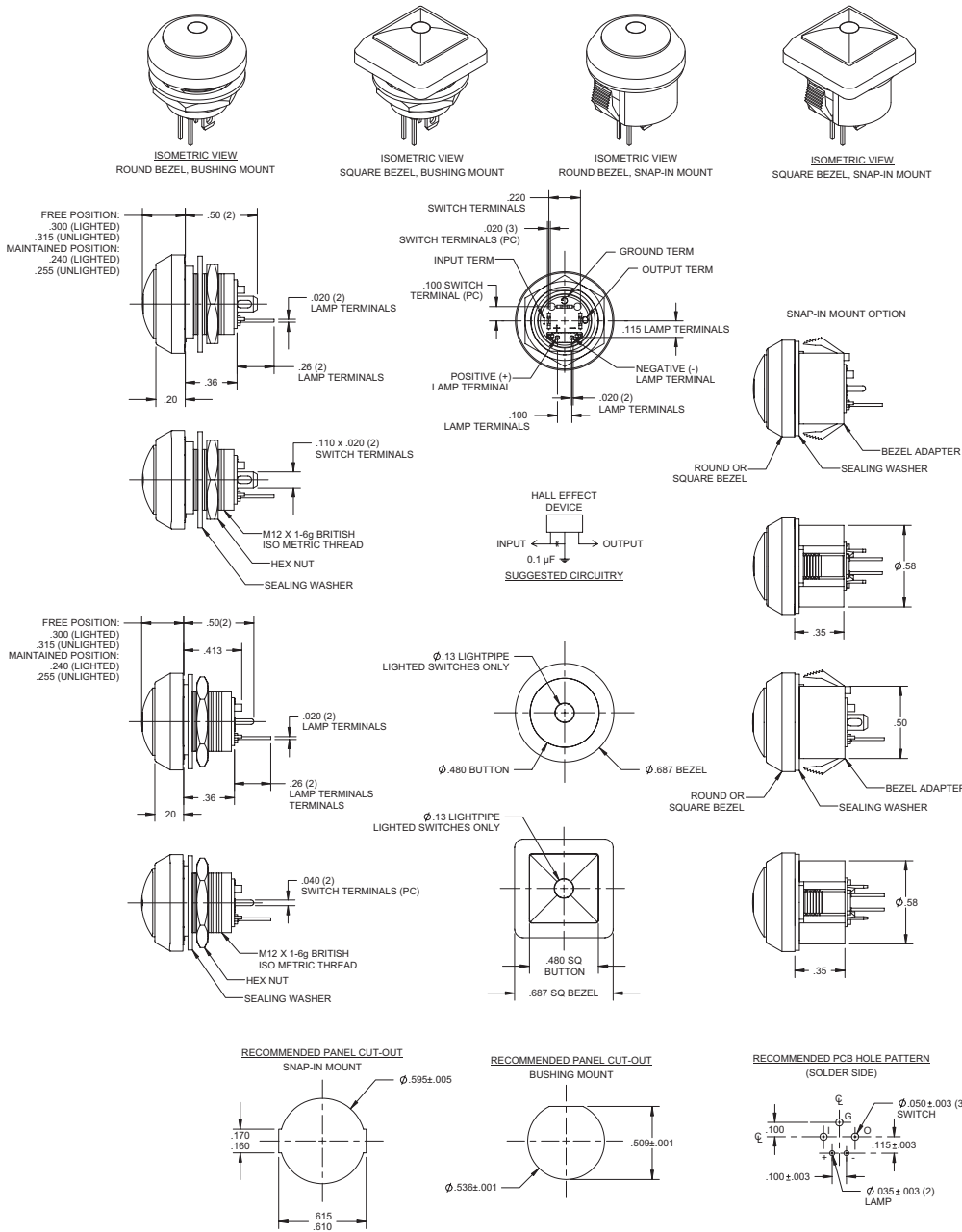
48-

\* Current limiting resistor is required to limit LED forward current to 20 mA (not included).

### STANDARDS / AGENCY / RATINGS:



## PRODUCT DRAWINGS



## MECHANICAL / ELECTRICAL CHARACTERISTICS:

- Circuit:**  
SPST-NO
- Button travel (nominal):**  
0.09 inches / 2.3 mm
- Life (mechanical) (nominal):**  
1,000,000 cycles (momentary)  
100,000 cycles (maintained)
- Operating force (nominal):**  
3N / 306 grams
- Panel thickness:**  
0.02 – 0.12 inches / 0.5 – 3mm
- Temperature index:**  
-40°F to + 185°F
- LED operating temperature:**  
-13° F to +185° F /  
-25° C to +85° C
- Supply voltage:**  
4.2V to 24V, 26.5V Max.
- Supply current:**  
B<Brp, Vcc=12V: 3mA Typ.  
To 8mA Max.  
B>Bop, Vcc=12V: 4mA Typ.  
To 8mA Max.
- Output current:**  
20 mA
- Reverse battery voltage:**  
-30V Max.
- Reverse output current:**  
-50mA Max.
- Torque (max):**  
10 inch pounds