

Series 48EM

MINIATURE SEALED ELECTRO-MECHANICAL

This rugged multi-option sealed pushbutton series offers the utmost in choices of mounting styles, colors, terminations, bezels, lighting and momentary or alternate-action switching. The Series 48 offers all these options in one compact package size.



APPLICATIONS

- Office equipment
- Medical equipment
- Industrial machinery
- Outdoor controls
- Mass transportation
- Food processing equipment

KEY FEATURES:

- Momentary or maintained action
- Gold contacts
- Many button colors
- Choice of LED colors (or non-lighted versions)
- Long life
- Solder or PC terminals
- Panel sealed to IP 67

ACTUAL SIZE

ORDERING INFORMATION:

Switch Function	Switch Termination	Module Type	Bezel Type	LED Color	Button Color	Mounting Type	Voltage Resistor
Momentary	Solder Tabs	48-1	RB - Round, Black	N - None	RD - Red	B - Bushing	If Blank*
Maintained	Solder Tabs	48-2	SB - Square, Black	R - Red	GR - Green	S - Snap-fit	05 - 5V forward
Momentary	PC	48-5	RC - Round, Chrome	G - Green	BK - Black		
Maintained	PC	48-6	SC - Square, Chrome	Y - Yellow	BL - Blue		
Momentary	Wire Leads	48-A		A - Amber	YL - Yellow		
Maintained	Wire Leads	48-B		B - Blue	OR - Orange		
				W - White	CR - Chrome		
					PK - Black with Standby Symbol		
					WH - White		

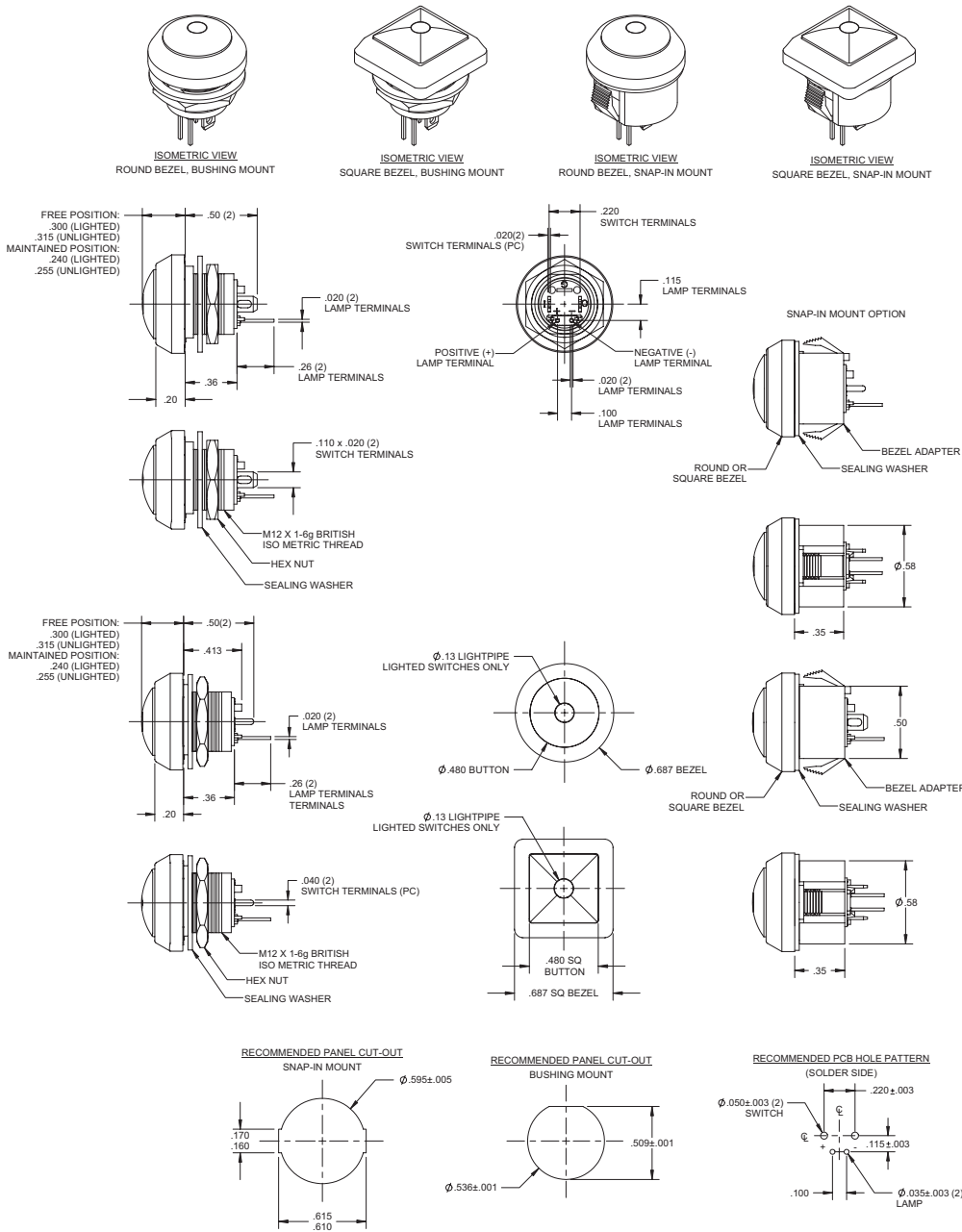
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* Current limiting resistor is required to limit LED forward current to 20 mA (not included).

STANDARDS / AGENCY / RATINGS:



PRODUCT DRAWINGS



MECHANICAL / ELECTRICAL CHARACTERISTICS:

- Circuit:** SPST-NO-DB
- Button travel (nominal):** 0.09 inches / 2.3 mm
- Operating force (nominal):** 3N / 306 grams
- Contact bounce (nominal):** 1 millisecond
- 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
- Current ratings (resistive):**
 - 250mA @ 12VDC, 100K cycles
 - 150mA @ 28VDC, 150K cycles (momentary)
 - 100mA @ 48VDC, 100K cycles
 - 10mA @ 12VDC, 1 million cycles (momentary)
- Dielectric strength:** 1,000 VAC
- Insulation resistance:** 1G OHM
- Contact resistance:** 50 mΩ max (initial)
- Torque (max):** 10 inch pounds