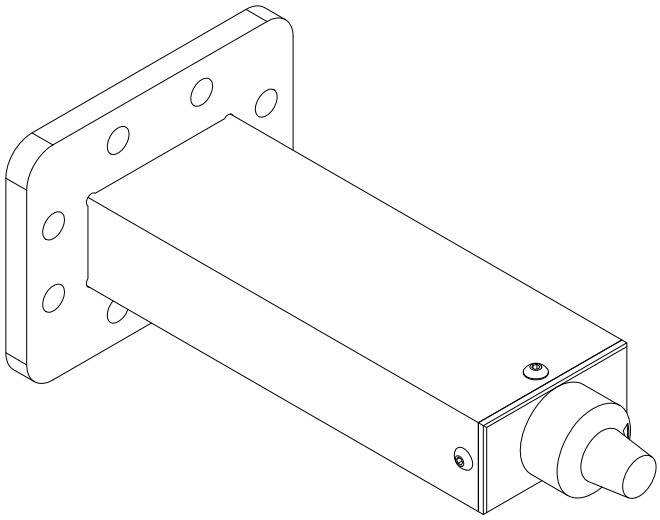
Precision Sliding Short Circuit, 5.8 GHz, CPR159

GERLING

Model GA1223

GAE's family of Precision Sliding Short Circuits are designed for use in high power microwave networks to establish a standing wave in waveguide and continuously vary the location of the standing wave throughout a range of positions. Typical uses include waveguide applicators in which a standing wave must be accurately positioned to maximize the coupling of microwave power to the load being heating.

The "non-contacting" sliding plunger design utilizes non-metallic (Teflon) contacting surfaces for reduced wear. Reactive chokes suppress power loss and arcing during high power operation. A precision screw drive mechanism and multi-turn dial with calibrated digital readout ensure positional accuracy and repeatability.



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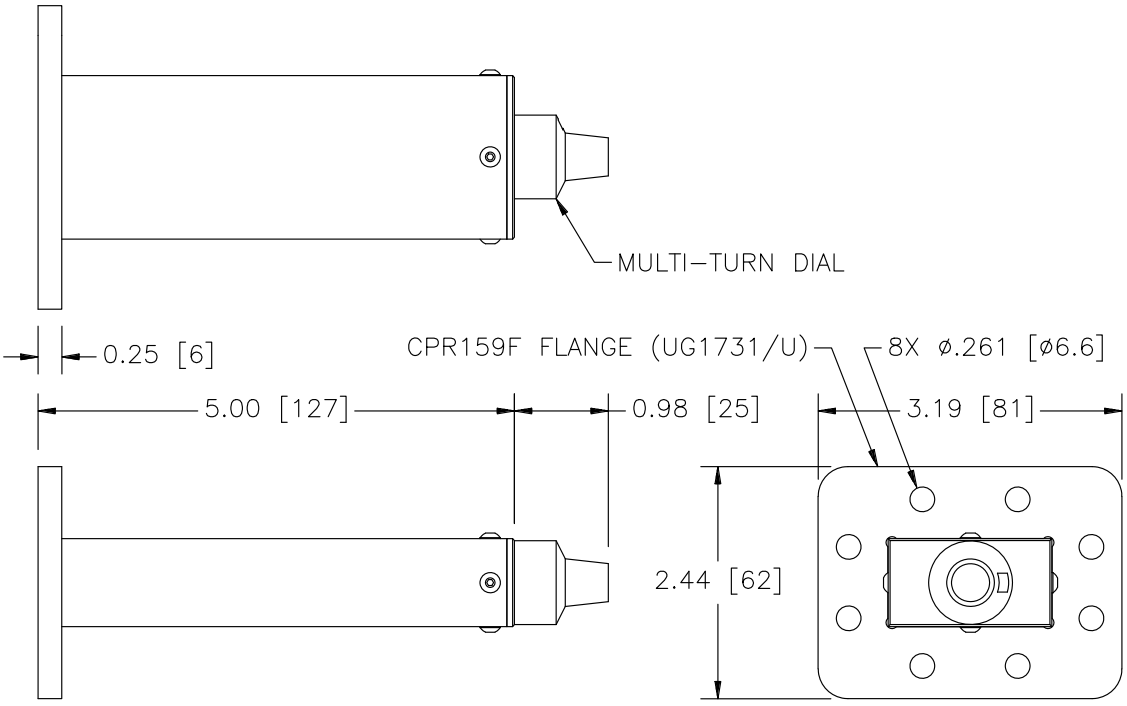
General Specifications:

Frequency	5.8 GHz nominal
Power (continuous)	1 kW
Return Loss	0.05 dB max @ 5.8 GHz
Waveguide	WR159 (RG344/U)
Input Flange	CPR159F (UG1731/U)
Plunger Travel	1.5 inches (3.8 cm)
Position Indicator	Multi-turn dial with digital readout
Readout Calibration	0.005 inches (0.01 cm) movement per unit on the digital readout
Construction	Aluminum waveguide, brass/ stainless steel mechanism
Finish	Chemical conversion coating; textured black paint

Options:

- Threaded inserts or studs on flange
- Alternate flange styles
- Flange interlock switch



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All dimensions are in inches [millimeters].

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