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.

**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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**Model GA1223**

![Model GA1223](image)