



Gunn Oscillator Regulator

Description:

Model SOR-R3 is a voltage regulator designed and manufactured to protect the Gunn oscillator from being accidentally reverse biased or over biased. The well-regulated and low ripple output voltage supplied by the regulator also helps to reduce possible amplitude and frequency modulation caused by the ripples of the bias voltage supplied by a low quality DC power supply.



Features:

- High Regulated and Precise Output Voltage
- Low ripple to reduce AM Modulation

Applications:

- Lab Test Setups
- Gunn Oscillation Protection
- Gunn Oscillation Enhancement

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Voltage (V_{DC})		+15 V_{DC}	
Output Voltage (V_{DC})	+5 V_{DC}		+12 V_{DC}
Output Current Capacity		1,000 mA	
Specification Temperature		+25 °C	
Case Temperature	0 °C		+50 °C

Mechanical Specifications:

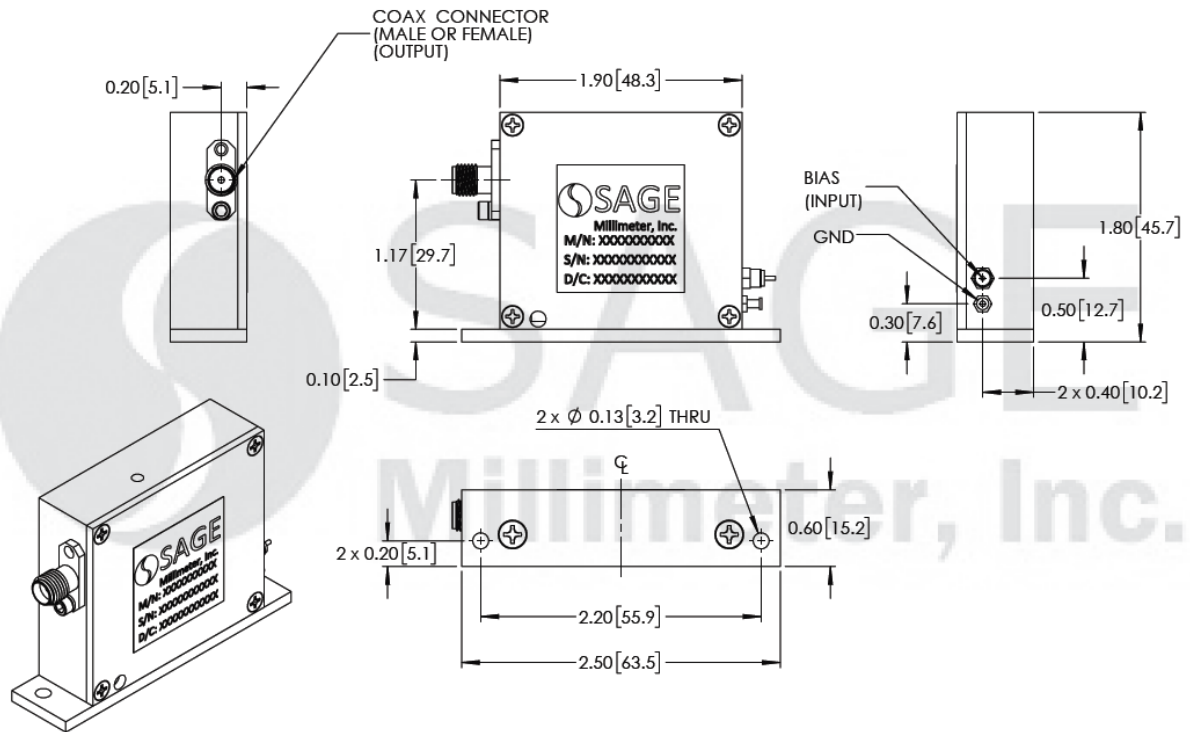
Item	Specification
Input Connector	Solder Pins
Output Connector	SMA (F)
Case Material	Aluminum
Finish	Chem Film
Weight	2.4 Oz
Size	2.5" (L) x 1.8" (W) x 0.6" (H)
Outline	OR-R3





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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- The regulator is designed for the designated Gunn oscillator only.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Do not use the regulator as a universal product to bias non-designated oscillators. To do so will cause equipment damage.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.92 ± 0.05 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

