

Gunn Oscillator Regulator

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.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Voltage (VDC)		+15 V _{DC}	
Output Voltage (VDC)	+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

ECCN

EAR99

FEATURES

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

APPLICATIONS

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

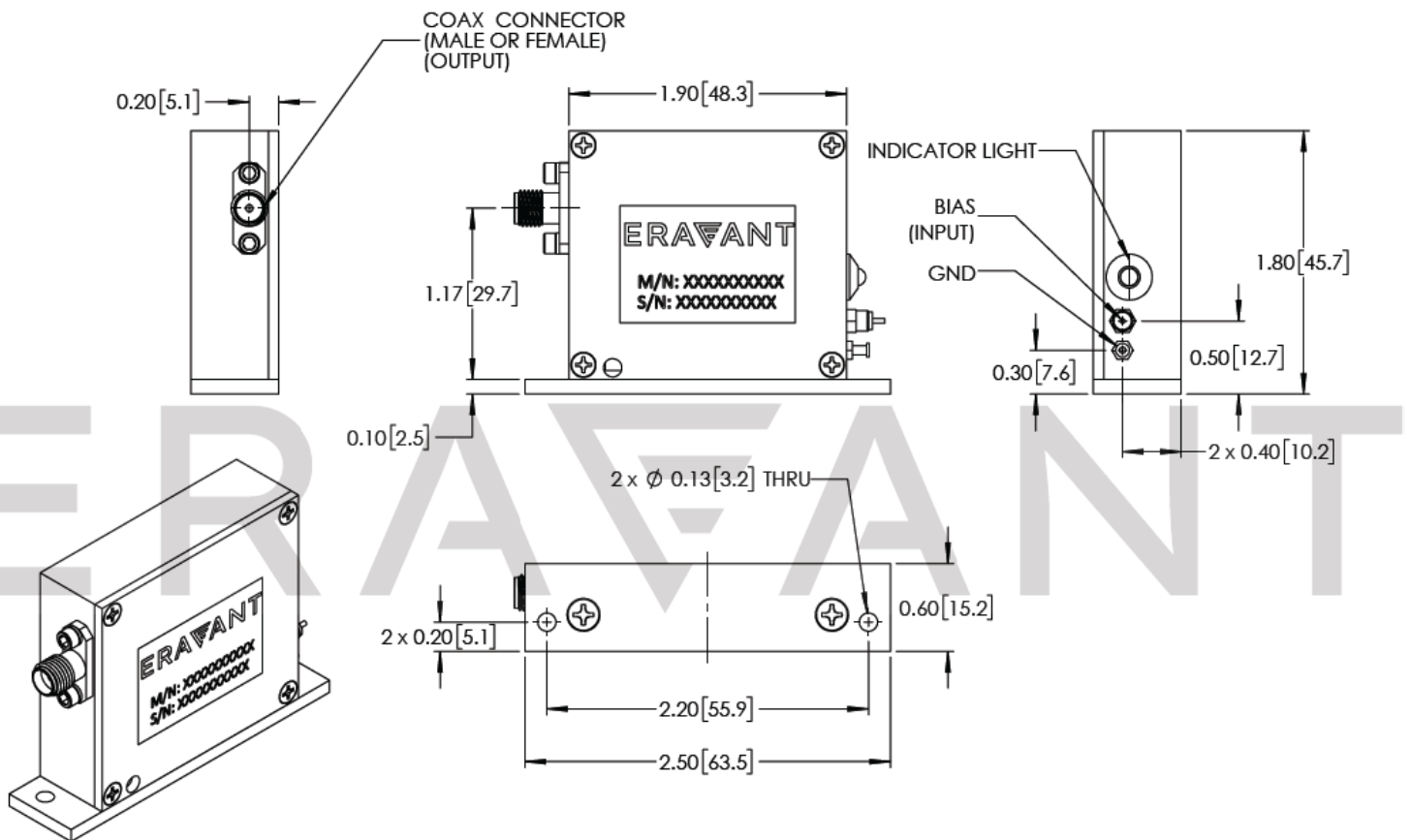
SUPPLEMENTAL DETAILS



SOR-R3

Mechanical Outline:

Unless otherwise specified, all dimensions are in inches [millimeters]



NOTE:

- The regulator is designed for the designated Gunn oscillator only room temperature.
- Eravant 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.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model [SCH-08008-S1](#) is highly recommended

MAKING MILLIMETERWAVE ACCESSIBLE