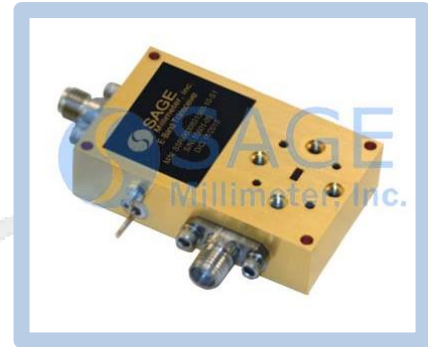




E-Band Receiver, 71 to 86 GHz, 4 dB Gain, 7 dB NF

Description:

Model SSR-7930837005-12-S1-2 is an E-Band receiver. The receiver has a typical noise figure of 7.0 dB and conversion gain of 4 dB with a RF linear input power of -5 dBm in the frequency range of 71 to 86 GHz and an IF output frequency range of DC to 12 GHz. The required LO power and frequency range are +13 dBm and 4.4 to 5.4 GHz, respectively. The LO and IF port are both equipped with female SMA connectors and the RF port is a WR-12 waveguide with a UG-387/U flange.



Features:

- Compact Size
- Low Noise Figure
- Fully Integrated Module

Applications:

- E Band Communication Systems
- Radar Systems
- Passive Camera Systems

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Input Frequency	71 GHz		86 GHz
IF Frequency Output	DC		12 GHz
LO Input Frequency	4.4 GHz		5.4 GHz
LO Power		+13 dBm	+16 dBm
Conversion Gain		4 dB	
Noise Figure		7 dB	
Harmonic Suppression		-20 dBc	
DC Bias	+5 V _{DC}	+8 V _{DC}	+15 V _{DC}
DC Current		400 mA	
Specification Temperature		+ 25 °C	
Operating Temperature	0 °C		+ 50 °C

Mechanical Specifications:

Item	Specification
RF Port	WR-12 Waveguide with UG-387/U Flange
RX IF Port	SMA(F)
LO Port	SMA(F)
Housing	Aluminum
Bias	Solder Pin
Size	1.10" (W) X 2.50" (L) X 0.50" (H)
Weight	2.0 Oz
Finishing	Gold Plated
Outline	SR-SE

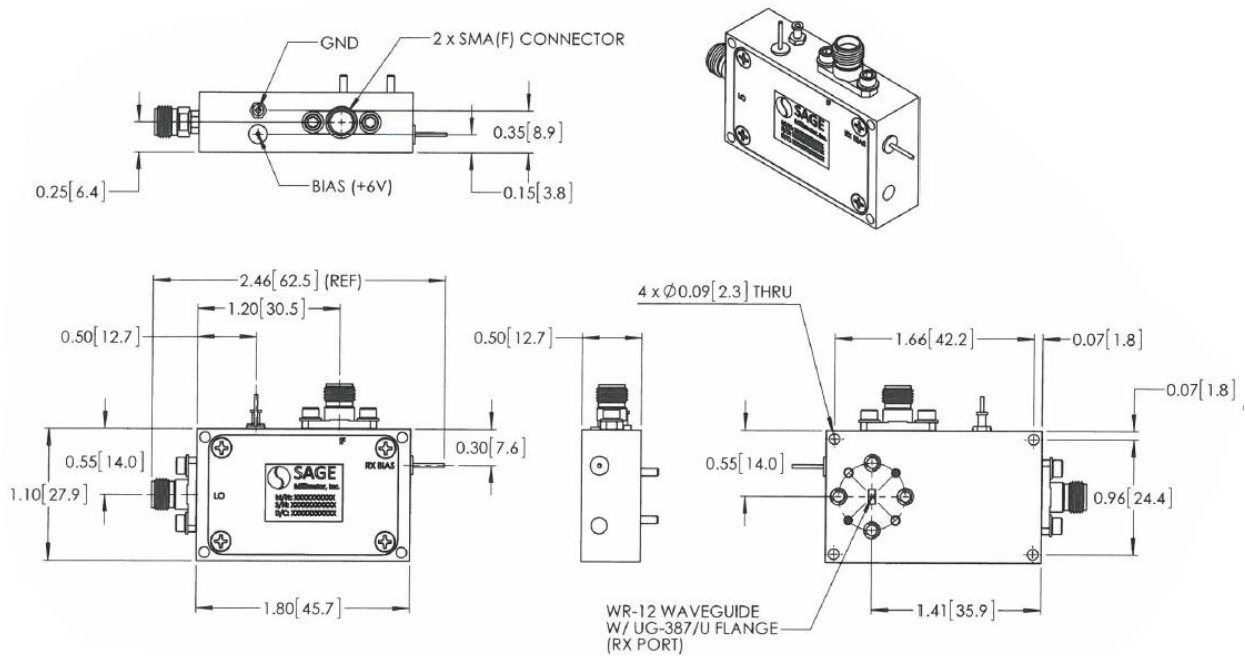


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches[mm])



Note:

- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings of the device will damage the device.
- 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.**
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

