SSR-1215N15-SE1

WR-12 Receiver, 60 to 90 GHz, 15 dB Conversion Loss

Description:

Model SSR-1215N15-SE1 is a full WR-12 integrated receiver module. The receiver has a typical conversion loss of 15 dB with a typical Noise Figure of 15 dB in the frequency range of 60 to 90 GHz. The required LO power is +3 dBm between frequencies of 10 and 15 GHz. The RF receive port is WR-12 Waveguide with UG-387/U-M Anti-Cocking Flange while the LO and IF port is female SMA connectors. Other port configurations, are also available under different model numbers.

Features:

- Built in x6 LO Multiplier
- Fully Integrated Module

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Input Frequency	60 GHz		90 GHz
RF Input Power			+5 dBm
IF Output Frequency	DC	1 GHz	12 GHz
LO Frequency	10 GHz		15 GHz
LO Input Power		+3 dBm	+20 dBm
Conversion Loss		15 dB	
Noise Figure		15 dB	
Input P _{1dB}		-5 dBm	
Bias Voltage	+6 V _{DC}	+8 V _{DC}	+15 V _{DC}
Bias Current		200 mA	
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

Item	Specification
RF Port	WR-12 Waveguide with UG-387/U-M Anti-Cocking Flange
LO Port	SMA (F)
IF Port	SMA (F)
Bias	Solder Pin
Case Material	Aluminum
Finish	Gold Plated
Weight	2.0 Oz
Size	1.10" (W) X 1.95" (L) X 0.75" (H)
Outline	SR-SE-A-2

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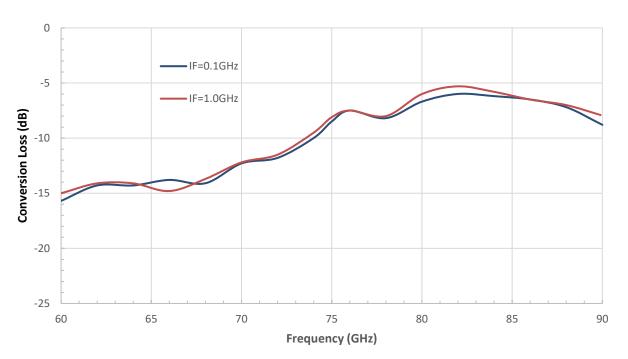




Applications: Communication Systems

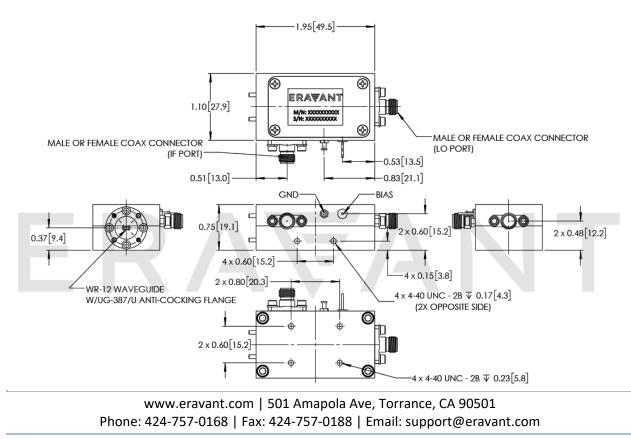
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Conversion Loss vs. Frequency

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



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Note:

- Eravant reserves the right to change the information presented without notice.
- Other mechanical configurations are available under different model numbers.

Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- The device is static sensitive. Always follow ESD rules when working with the device.
- The case temperature of the device shall never exceed +50 °C. Use proper heatsink or fan if necessary.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. Eravant torque wrench, model SCH-08008-S1, is highly recommended.



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