SFA-1141741202-06SF-E1

D-Band, X12 Active Multiplier, +2 dBm Pout

Description:

Model SFA-1141741202-06SF-E1 is an active X12 frequency multiplier. The multiplier has an input frequency of 9.16 to 14.16 GHz with a typical input power of +3 dBm and an output frequency of 110 to 170 GHz with a typical output power of +2 dBm. The DC power requirement for the multiplier is +8 V_{DC} /600 mA. The input port configuration is a female SMA connector and the output is a WR-06 waveguide with a UG-387/U-M anti-cocking flange. Other port configurations are available under different model numbers.

Features:

- Full Band Coverage
- X12 Multiplication

Electrical Specifications:

- Frequency Extenders
 - THz Systems

Applications:

Parameter	Minimum	Typical	Maximum
Input Frequency	9.16 GHz		14.16 GHz
Input Power		+3 dBm	20 dBm
Output Frequency	110 GHz		170 GHz
Output Power		+2 dBm	
Harmonic Suppression		-15 dBc	
Spurious		-60 dBc	
Port Return Loss		8 dB	
DC Voltage	+6 V _{DC}	+8 V _{DC}	+15 V _{DC}
DC Supply Current		600 mA	
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

Item	Specification
Input Port	SMA (F)
Output Port	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange
Bias	Solder Pin
Case Material	Aluminum
Finish	Gold Plated
Weight	1.2 Oz
Size	1.80" (L) X 1.00" (W) X 0.75" (H)
Outline	FA-SD-2CW-A-1.8



www.eravant.com | 501 Amapola Ave, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: support@eravant.com



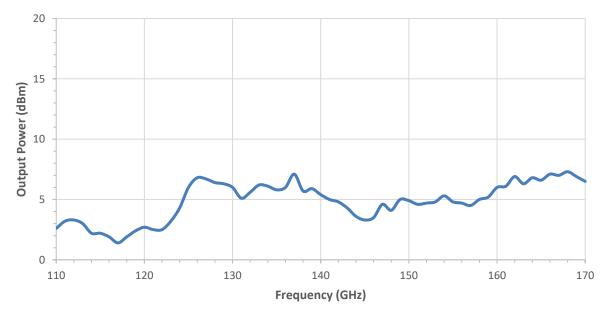


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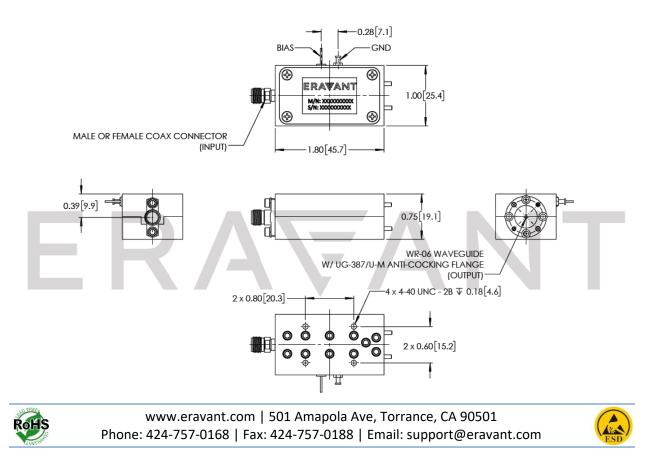
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Typical Output Power vs. Frequency

Bias: +8V_{DC}/600 mA ; Input Power = +3 dBm RFsat: +8Vdc/ 700 mA



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



Rev 1.1

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Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- All testing was performed under +25 °C case temperature.
- 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.
- Any foreign objects in the waveguide will cause performance degradation and may damage the device.
- 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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