SFA-503753213-15KF-E1

V-Band, X2 Active Frequency Multiplier, 50 to 75 GHz, +13 dBm Pout

Description:

Model SFA-503753213-15KF-E1 is a V-Band active X2 frequency multiplier. The multiplier has an input frequency of 25.0 to 37.5 GHz with a typical input power of +3 dBm and an output frequency of 50 to 75 GHz with a typical output power of +13 dBm. The multiplier also has a typical harmonic suppression of -15 dBc. The DC power requirement for the multiplier is +8 V_{DC}/400 mA. The input



port configuration is an K (F) connector and the output is a WR-15 waveguide with a UG-385/U anticocking flange. Other port configurations are available under different models.

Features:

- Full Band Coverage
- High Output Power
- Low Harmonic Emission

Applications:

- IEEE 802.11ab WiGig
- Frequency Extenders
- Source Modules
- Communication Systems

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	25.0 GHz		37.5 GHz
Input Power		+3 dBm	+20 dBm
Output Frequency	50.0 GHz		75.0 GHz
Output Power		+13 dBm	
Harmonic Suppression		-15 dBc	
Spurious		-60 dBc	
Port Return Loss		10 dB	
DC Voltage	+6 V _{DC}	+8 V _{DC}	+15 V _{DC}
DC Supply Current		400 mA	
Specification Temperature		+25 °C	
Operating Temperature	0 °C	_	+50 °C

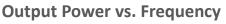
Mechanical Specifications:

ltem	Specification	
Input	K (F)	
Output	WR-15 Waveguide with UG-385/U Anti-Cocking Flange	
Bias	Solder Pin	
Case Material	Aluminum	
Finish	Gold Plated	
Weight	1.6 Oz	
Size	1.10" (W) x 1.80" (L) x 0.75" (H)	
Outline	FA-SV-2CW-A-1.8	
FREE	www.arguant.com E01 Amangla Ava. Tarranga, CA 00E01	

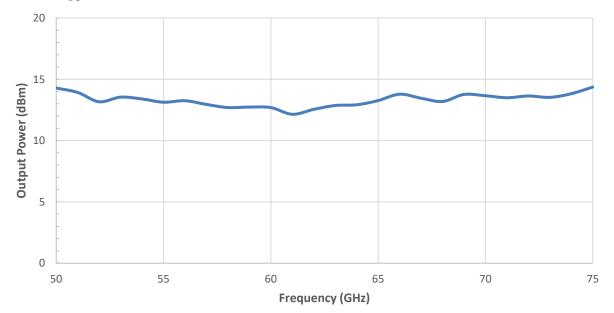


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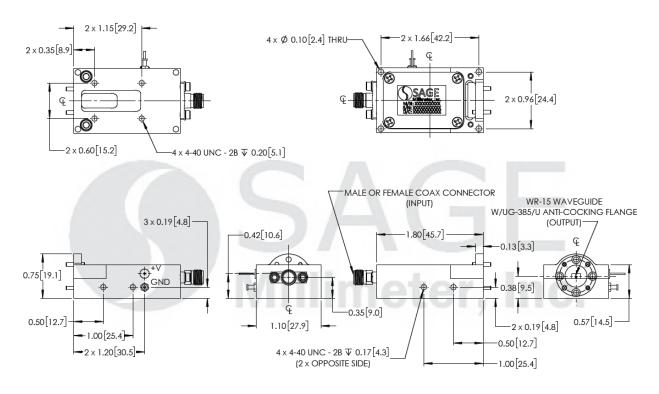
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Bias: +8V_{DC}/446 mA; Input Power = +3 dBm



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



Note:

RoHS

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- 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. SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.





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