

SFP-063VF-S1-M

D-Band X3, Passive Frequency Multiplier

SFP-063VF-S1-M is a D-Band, X3 passive multiplier that utilizes GaAs pHEMT-based MMIC chip with a balanced circuit configuration to generate third order harmonics with good harmonic and fundamental suppression. This multiplier requires an input frequency range of 36.7 to 56.7 GHz at +17 dBm RF power to yield 110 to 170 GHz at -5 dBm. The multiplier is equipped with a female 1.85 mm connector as its input port and a WR-06 waveguide with a UG-387/U-M anti-cocking flange as its output port. Other interface configurations are offered under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	36.7 GHz		56.7 GHz
Output Frequency	110 GHz		170 GHz
Input Power	+16 dBm	+17 dBm	+20 dBm
Output Power		-5 dBm	
Harmonic Suppression		20 dB	
Specification Temperature		+25°C	
Operating Temperature	0°C		+50°C

Mechanical Specifications:

Item	Specification
Input Port	1.85 mm (F)
Output Power	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange
Case Material	Aluminum
Finish	Gold Plated
Weight	0.8 Oz
Size	0.75" (L) X 0.75" (W) X 0.75" (H)
Outline	FP-DC3-A-M

ECCN

3A001.b.7

FEATURES

- No External Bias
- Compact Design

APPLICATIONS

- Source Modules
- 6G Systems

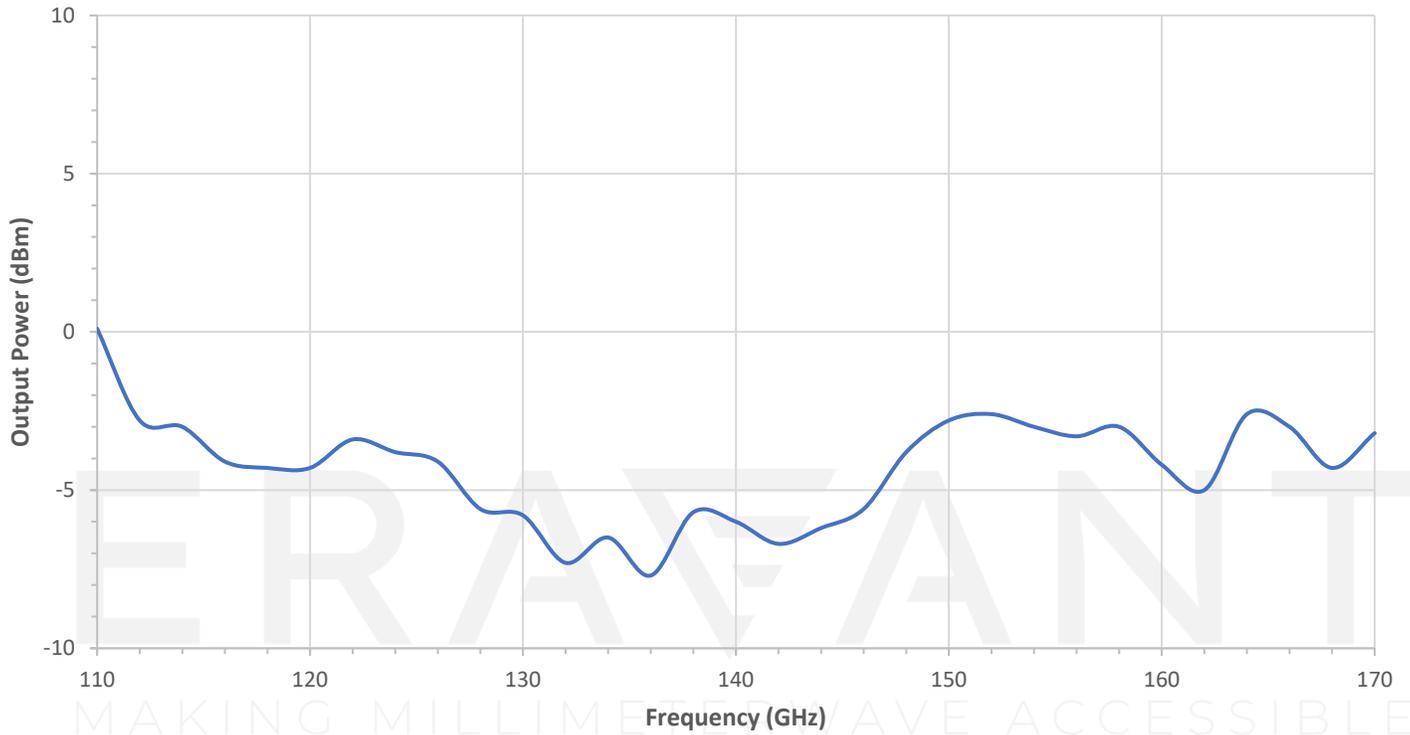
SUPPLEMENTAL DETAILS



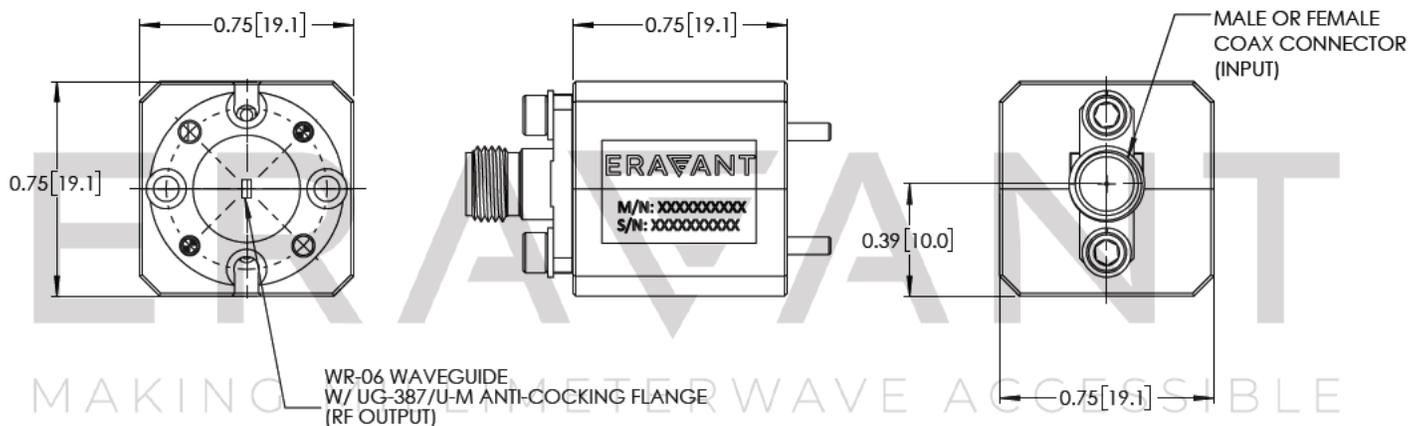
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Output Power vs. Frequency

Input Power = +17 dBm



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



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit.
- All testing is performed under +25 °C room temperature.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings of the multiplier will damage the device.
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- The multiplier is a static sensitive device. Always follow ESD rules when working with the multiplier.

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