SFP-152KF-S2

Rev 1.0

V-Band X2, Passive Frequency Multiplier, +17 dBm Input Power

Description:

Model SFP-152KF-S2 is a V-Band, X2 passive multiplier that utilizes GaAs Schottky, beam-lead diodes and a balanced circuit configuration to generate second order harmonics with good harmonic and fundamental suppression. This multiplier has an input frequency range of 25 to 37.5 GHz at +17 dBm RF power to yield 50 to 75 GHz at +4 dBm. The multiplier is equipped with a female K connector as its input port and a WR-15 waveguide with a UG-385/U flange as its output port. Other interface configurations are offered under different model numbers.

Features:

- Minimal Conversion Loss
- No External Bias
- Compact Package

Applications:

- Source Modules
- Communication Systems
- Radar Systems

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	25.0 GHz		37.5 GHz
Output Frequency	50.0 GHz		75.0 GHz
Input Power		+17 dBm	
Input Damage Power			+19 dBm
Output Power		+4 dBm	
Harmonic Suppression		20 dB	
Specification Temperature		+25˚C	
Operating Temperature	-40˚C		+85˚C

Mechanical Specifications:

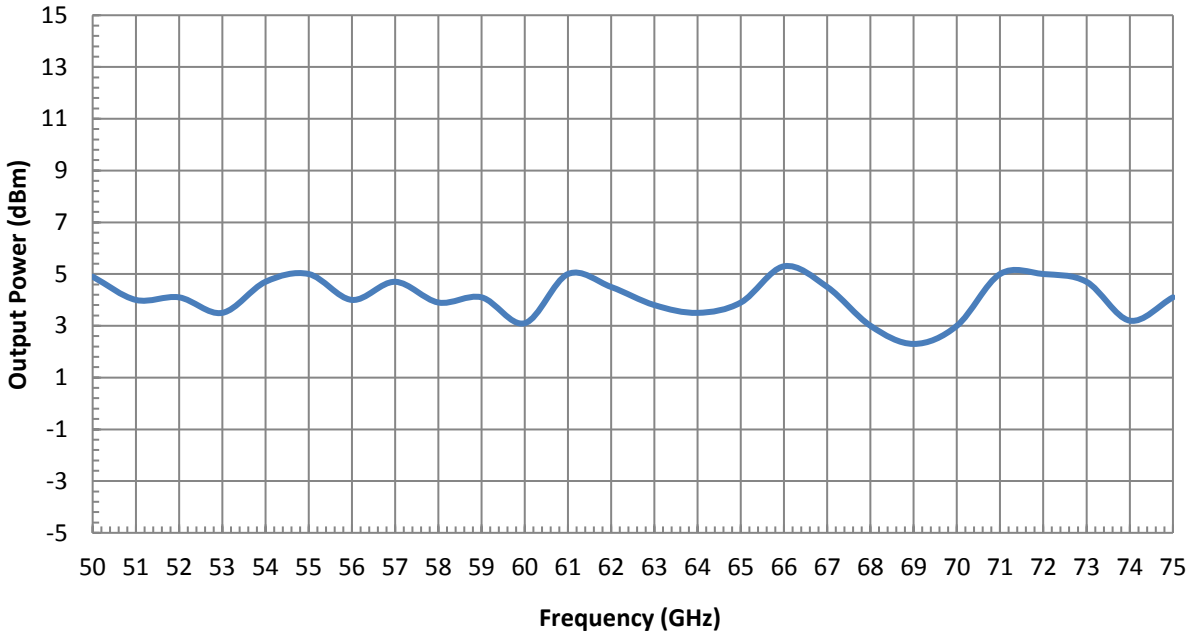
Item	Specification
RF Input	K(F)
X2 Output	WR-15 Waveguide with UG-385/U Flange
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	FP-V22

www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com

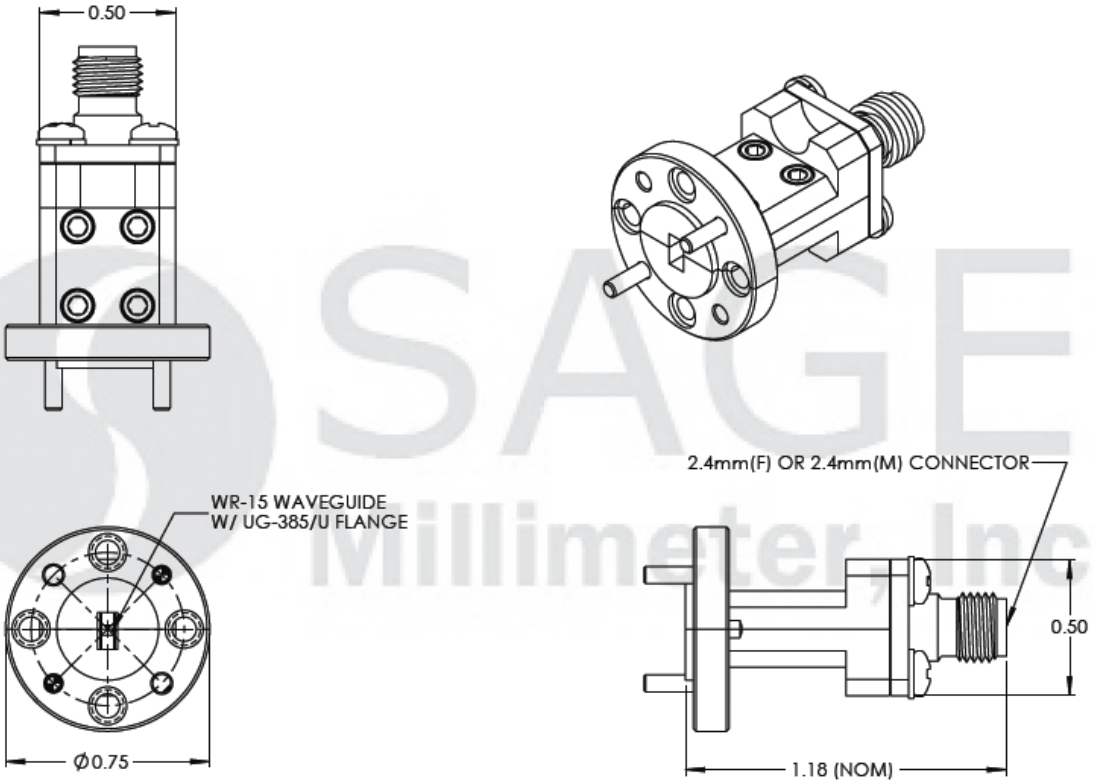
V-Band X2, Passive Frequency Multiplier, +17 dBm Input Power

Typical Output Power vs. Frequency

Inpur Power: +17 dBm



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



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Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25˚C case temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings of the multiplier will damage the device.
- Any foreign objects in the waveguide will degrade performance and/or damage the device.
- The multiplier is a static sensitive device. Always follow ESD rules when working with the multiplier.