SFP-363573303-19SF-N1

U-Band X3, Passive Frequency Multiplier, +20 dBm Input Power

Description:

Model SFP-363573303-19SF-N1 is a U-Band, X3 passive multiplier that utilizes GaAs Schottky, beamlead diodes and a balanced circuit configuration to generate the second harmonic with good harmonic and fundamental frequency rejections. This multiplier requires an input frequency range of 12 to 19 GHz at +20 dBm RF power to yield 36 to 57 GHz at +3 dBm typically. The multiplier is equipped with a female SMA connector as its input port and a WR-19 waveguide with a UG-383/U-M anti-cocking flange as



its output port. Other interface configurations are offered under different model numbers.

Features:

- Low Conversion Loss
- No External Bias
- Compact Package

Electrical Specifications:

Applications:

- Source Modules
- Communication Systems
- Radar Systems

Parameter	Minimum	Typical	Maximum
Input Frequency	12 GHz		19 GHz
Output Frequency	36 GHz		57 GHz
Input Power		+20 dBm	
Damage Input Power			+22 dBm
Output Power		+3 dBm	
Fundamental Rejection		40 dB	
Harmonic Suppression		20 dB	
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

Item	Specification
Input Port	SMA (F)
Output Port	WR-19 Waveguide with UG-383/U-M Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Size	1.17" (L) X 1.13" (W) X 0.51" (H)
Outline	FP-U3-A

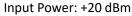


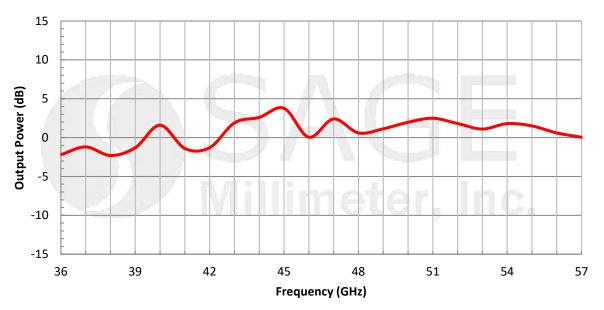
www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com



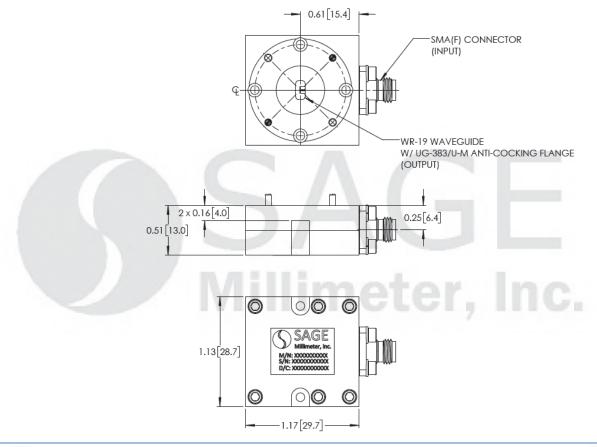
U-Band X3, Passive Frequency Multiplier, +20 dBm Input Power







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





www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com Rev. 1.0

SFP-363573303-19SF-N1

U-Band X3, Passive Frequency Multiplier, +20 dBm Input Power

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.
- 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.



