SFP-1041443N05-0822-S1-M

F-Band X3, Passive Frequency Multiplier

SFP-1041443N05-0822-S1-M is a F-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 33.3 to 46.7 GHz at +17 dBm RF power to yield 100 to 140 GHz at -5 dBm. The multiplier is equipped with WR-22 Uni-Guide waveguide connector as its input port and a WR-08 waveguide with a UG-387/U-M anti-cocking flange as its output port. Other interface configurations are offered under different model numbers.

ER MANA COMPONENTS

Electrical Specifications:

Minimum	Typical	Maximum
33.3 GHz		46.7 GHz
100 GHz		140 GHz
+16 dBm	+17 dBm	+20 dBm
	-5 dBm	
	20 dB	
	+25°C	
0°C		+50°C
	33.3 GHz 100 GHz +16 dBm	33.3 GHz 100 GHz +16 dBm +17 dBm -5 dBm 20 dB +25°C

Mechanical Specifications:

Item	Specification
Input Port	WR-22 Uni-Guide™ Waveguides with UG-383/U-M Anti- Cocking Flanges
Output Power	WR-08 Waveguide with UG-387/U-M Anti-Cocking Flange
Case Material	Aluminum
Finish	Gold Plated
Weight	1 Oz
Size	1.14" (L) X 0.75" (W) X 0.75" (H)
Outline	FP-FQ3-A-M

ECCN

3A001.b.7

- FEATURES
- No External Bias
- Compact Design

APPLICATIONS

- Source Modules
 - Communication Systems
- Radar Systems

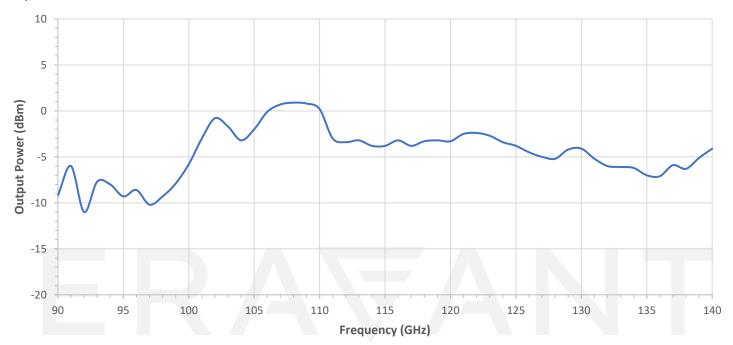
SUPPLEMENTAL DETAILS



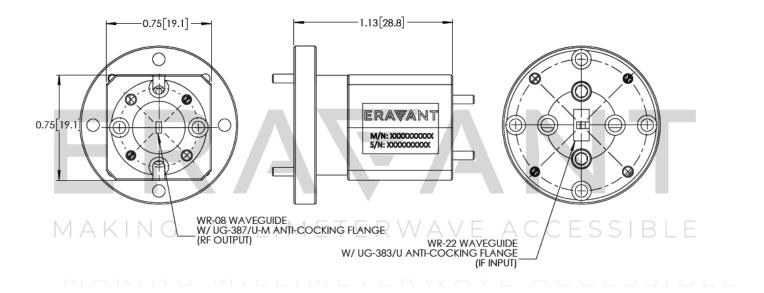
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Output Power vs. Frequency

Input Power = +17 dBm



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



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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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