

SFA-403603215-VMKF-S1

U-Band, X2 Active Frequency Multiplier, 40 to 60 GHz, +15 dBm P_{out}

SFA-403603215-VMKF-S1 is an active X2 frequency multiplier. The multiplier has an input frequency of 20 to 30 GHz with a typical input power of +5 dBm and an output frequency of 40 to 60 GHz with a typical output power of +15 dBm. The multiplier also has a typical harmonic suppression of -20 dBc. The DC power requirement for the multiplier is +8 V_{DC}/400 mA. The input port configuration is a female K 2.92 mm connector and the output is male V 1.85 mm connector. Other port configurations are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	20 GHz		30 GHz
Input Power		+5 dBm	+10 dBm
Output Frequency	40 GHz		60 GHz
Output Power		+15 dBm	
Harmonic Suppression		-20 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:

Item	Specification
Input Port	K (F)
Output Port	V (M)
Bias	Solder Pin
Case Material	Aluminum
Finish	Gold Plated
Weight	1.3 Oz
Size	1.20" (W) x 1.20" (L) x 0.50" (H)
Outline	BG-SC-1

ECCN

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FEATURES

- Low Harmonic Emission
- High Output Power
- Low Harmonic Components

APPLICATIONS

- Frequency Extenders
- Source Module
- Communication Systems

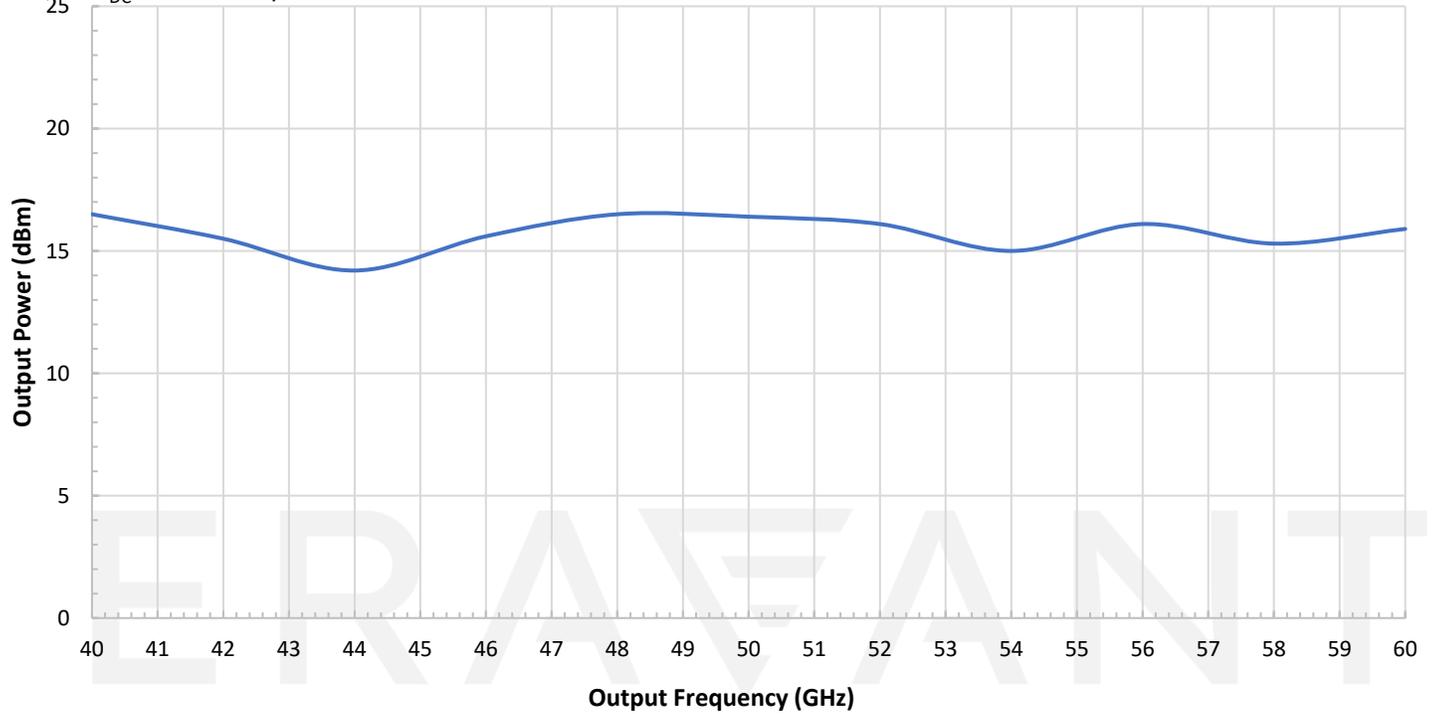
SUPPLEMENTAL DETAILS



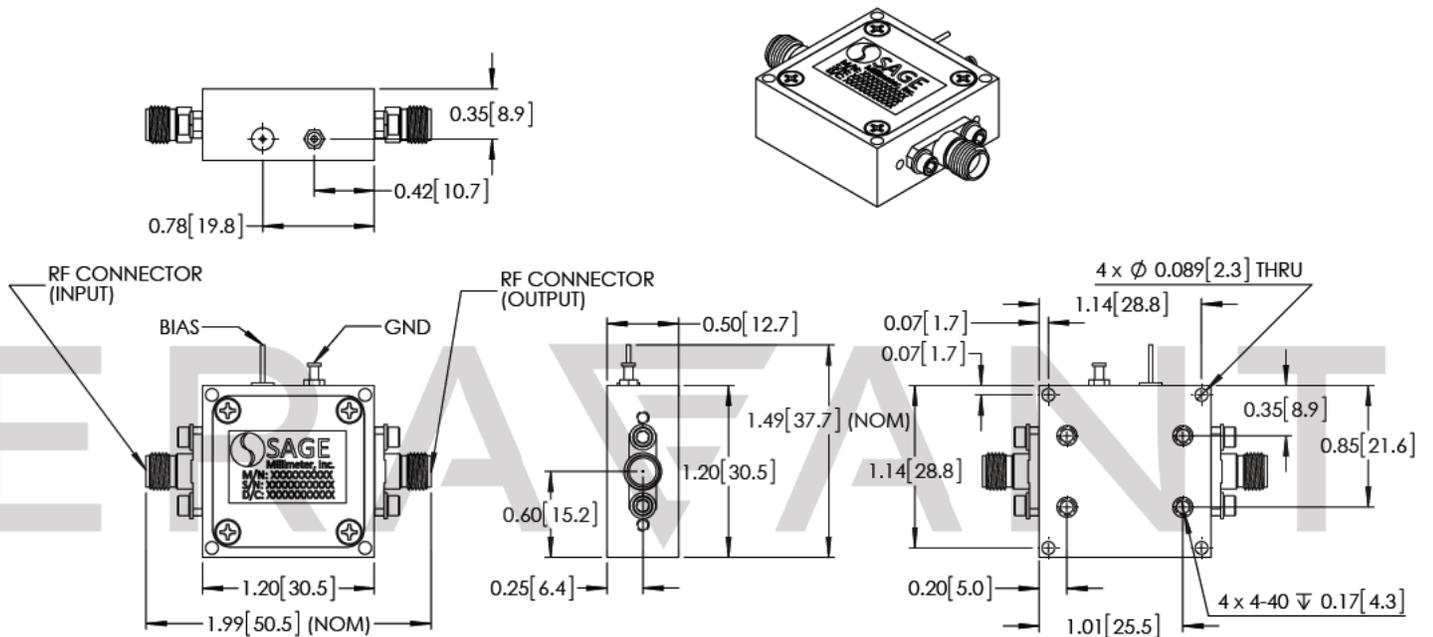
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Typical Output Power vs. Output Frequency

Bias: +8 V_{DC}/400 mA; Input Power: +5 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.
- 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.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model [SCH-08008-S1](#) is highly recommended.

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