SFA-553723626-15SF-E1

V-Band, X6 Active Frequency Multiplier, 55 to 72 GHz, +26 dBm P_{out}

SFA-553723626-15SF-E1 is a V-Band active X6 frequency multiplier. The multiplier has an input frequency of 9.16 to 12 GHz with a typical input power of +3 dBm and an output frequency of 55 to 72 GHz with a typical output power of +26 dBm. The multiplier also has a typical harmonic suppression of -15 dBc. The DC power requirement for the multiplier is +8 VDC/1.6 A. The input port configuration is an SMA (F) connector and the output is a WR-15 waveguide with a UG-385/U anti-cocking flange. Other port configurations are available under different models.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	9.16 GHz		12 GHz
Input Power		+3 dBm	+20 dBm
Output Frequency	55 GHz		72 GHz
Output Power		+26 dBm	
Harmonic Suppression		-15 dBc	
Spurious		-60 dBc	
Port Return Loss		10 dB	
DC Voltage	+6 V_{DC}	+8 V_{DC}	+15 V_{DC}
DC Supply Current		1.6 A	
Specification Temperature		+25°C	
Operating Temperature	0°C		+50°C

Mechanical Specifications:

Item	Specification
Input	SMA (F)
Output	WR-15 Waveguide with UG-385/U Anti-Cocking Flange
Bias	Solder Pin
Material	Aluminum
Finish	Gold Plated
Weight	1.6 Oz
Size	1.10” (W) x 1.80 (L) x 0.75” (H)
Outline	FA-SV-2CW-A-1.8

ECCN

3A001.b.7

FEATURES

- High Output Power
- Low Harmonic Emission

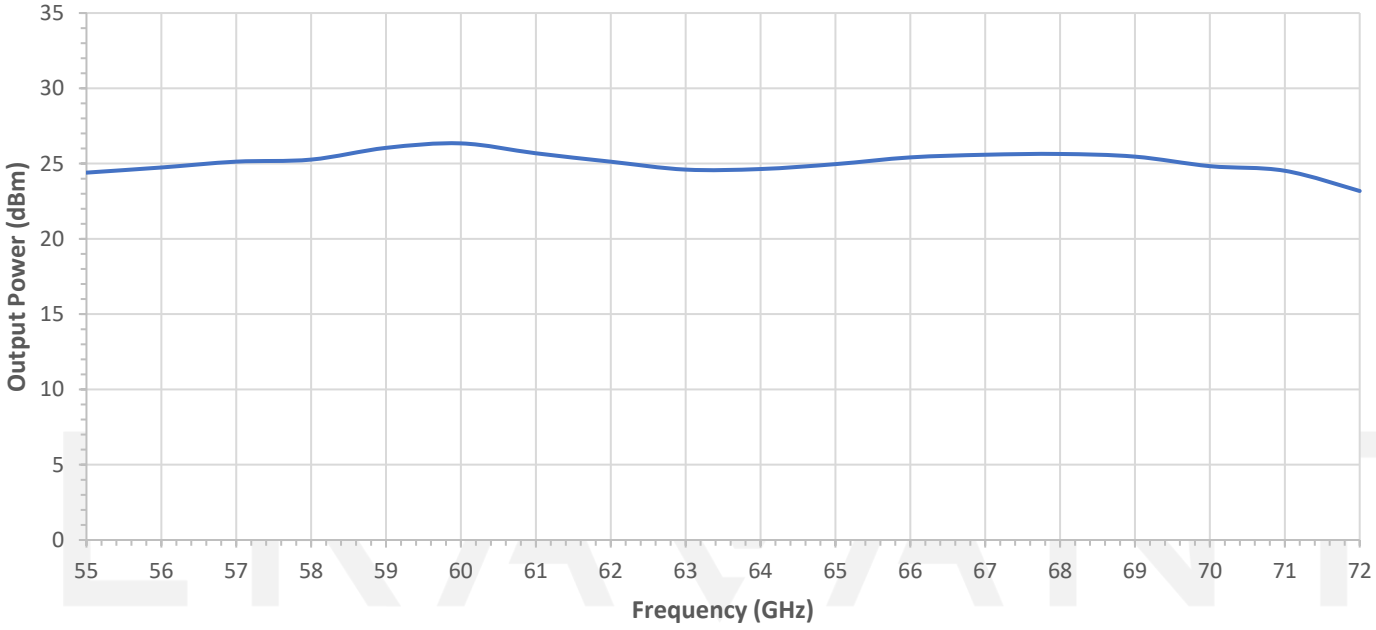
APPLICATIONS

- IEEE 802.11ab WiGig
- Communication Systems

SUPPLEMENTAL DETAILS

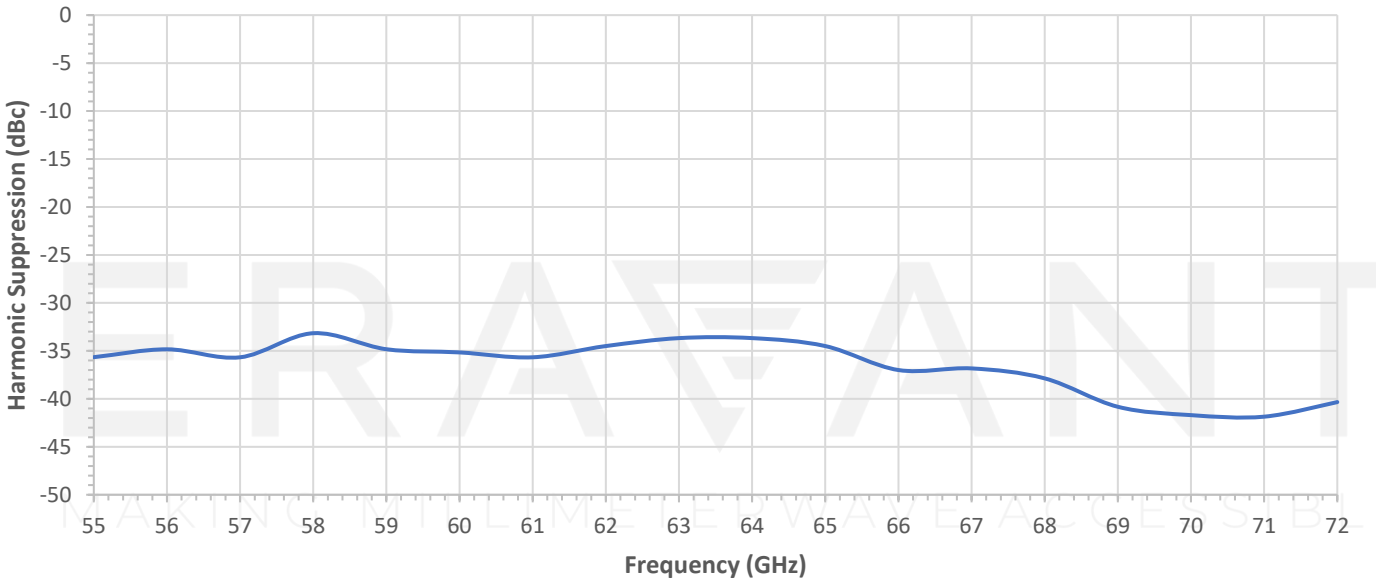
Typical Output Power vs. Frequency

Bias: +8V_{DC}/1,191 mA; Input Power = +5 dBm
RFSat: +8V_{DC}/2,240 mA

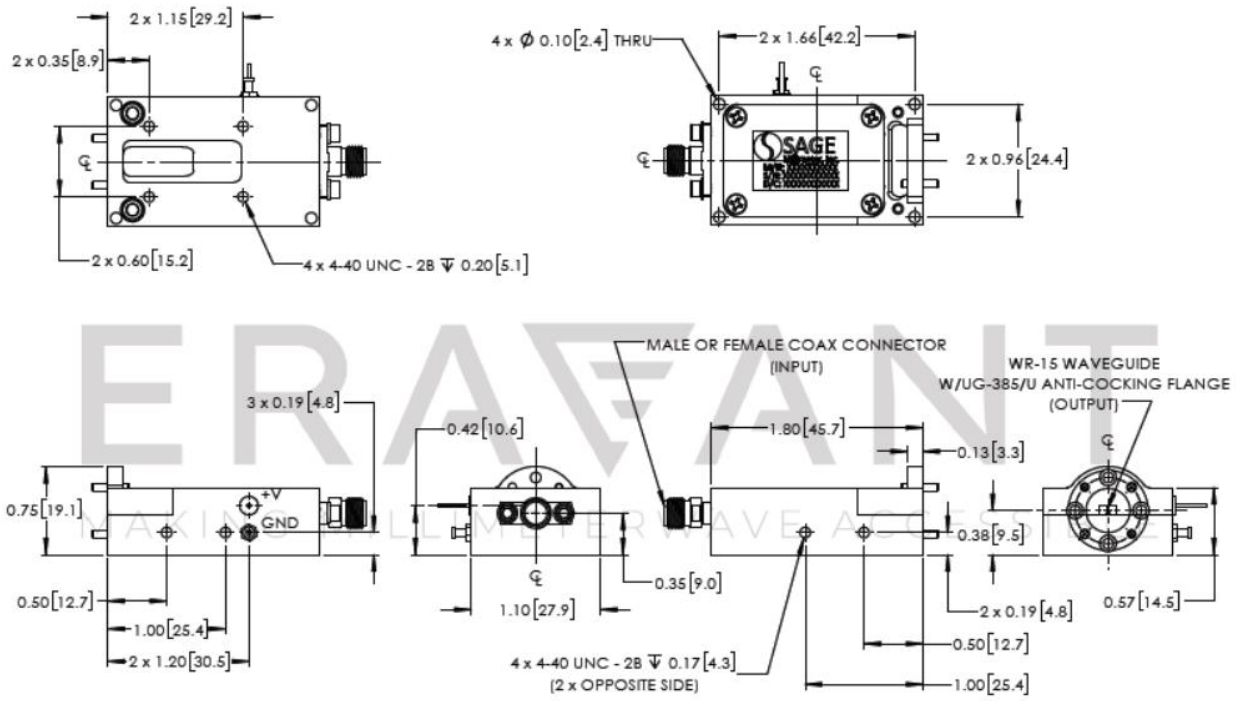


Typical Harmonic Suppression vs. Frequency

Bias: +8V_{DC}/1191 mA; Input Power = +5 dBm



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



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.
- 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.
- Any foreign objects in the waveguide will cause performance degradation and may damage the device.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **Eravant torque wrench, model SCH-08008-S1, is highly recommended.**