

## V-Band, X4 Active Frequency Multiplier, 55 to 72 GHz, +26 dBm P<sub>out</sub>

### Description:

**Model SFA-553723426-15SF-E1** is a V-Band active X4 frequency multiplier. The multiplier has an input frequency of 13.75 to 18 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 V<sub>DC</sub>/770 mA. 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.



### Features:

- High Output Power
- Low Harmonic Emission

### Applications:

- IEEE 802.11ab WiGig
- Communication Systems

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	13.75 GHz		18 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 <sub>DC</sub>	+8 V <sub>DC</sub>	+15 V <sub>DC</sub>
DC Supply Current		1.6 A	
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

### Mechanical Specifications:

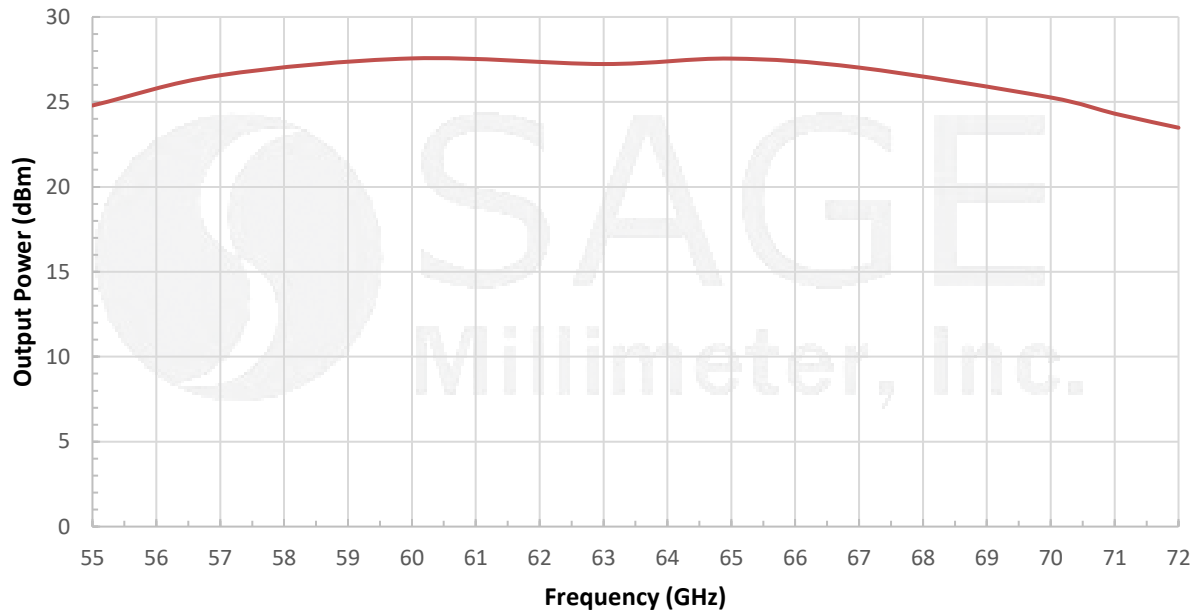
Item	Specification
Input	SMA (F)
Output	WR-15 Waveguide with UG-385/U Anti-Cocking Flange
Bias	Solder Pin
Case Material	Aluminum
Finish	Gold Plated
Weight	1.6 Oz
Size	1.10" (W) x 1.80" (L) x 0.75" (H)
Outline	FA-SV-2CW-A-1.8



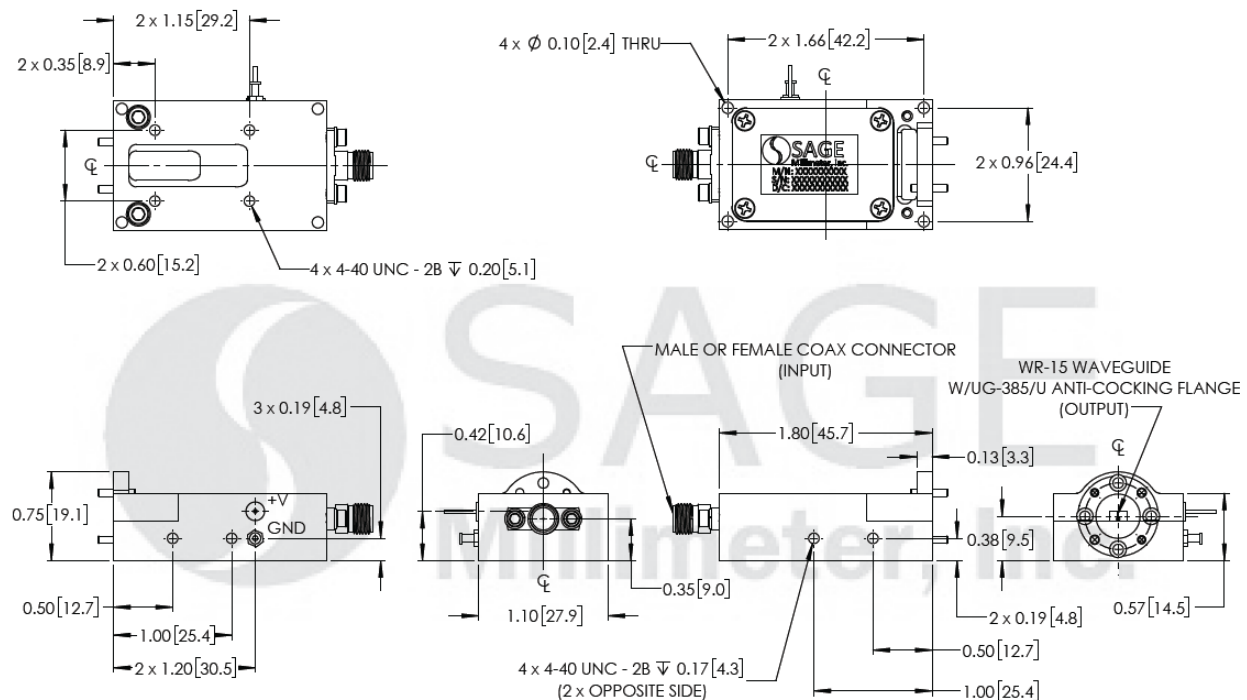
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## Output Power vs. Frequency

Bias: +8 V<sub>DC</sub>/ 1.62A



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



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### 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,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm), should be applied. **Eravant torque wrench, model SCH-08008-S1, is highly recommended.**

