SFA-503703220-15KF-S1

V-Band, X2 Active Frequency Multiplier, 50 to 70 GHz, +20 dBm Pout

Description:

Model SFA-503703220-15KF-S1 is an active X2 frequency multiplier. The multiplier has an input frequency of 25 to 35 GHz with a typical input power of +5 dBm and an output frequency of 50 to 70 GHz with a typical output power of +20 dBm. The multiplier also has a typical harmonic suppression of -20 dBc. The DC power requirement for the multiplier is +8 V_{DC}/800 mA. The input port configuration is a female K connector and the output is a WR-15 waveguide



with a UG-385/U flange. Other port configurations are available under different model numbers.

Features:

- Broadband Coverage
- High Output Power
- Low Harmonic Emission

Applications:

- IEEE 802.11ab WiGig
- Frequency Extenders
- Source Modules
- Communication Systems

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	25.0 GHz		35.0 GHz
Input Power		+5 dBm	+20 dBm
Output Frequency	50.0 GHz		70.0 GHz
Output Power		+20 dBm	
Harmonic Suppression		-20 dBc	
Spurious		-60 dBc	
Port Return Loss		10 dB	
DC Voltage	+6 V _{DC}	+8 V _{DC}	+12 V _{DC}
DC Supply Current	A formally	800 mA	
Specification Temperature	21 1	+25°C	
Operating Temperature	0°C		+50°C

Mechanical Specifications:

Item	Specification	
Input Port	K(F)	
Output Port	WR-15 Waveguide with UG-385/U Flange	
Bias	Solder Pin	
Case Material	Aluminum	
Finish	Gold Plated	
Weight	1.4 Oz	
Size	1.10" (W) X 1.80" (L) X 0.50" (H)	
Outline	FA-SV-1-1.8	



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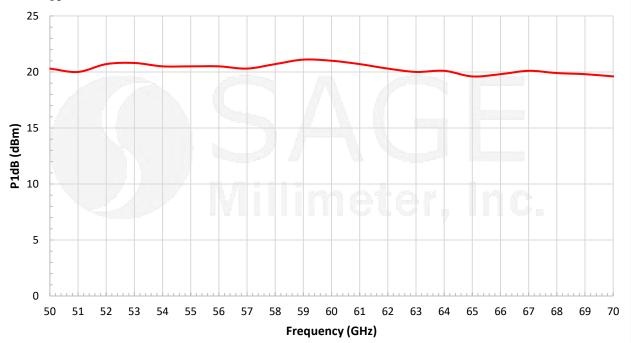


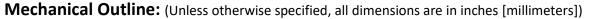
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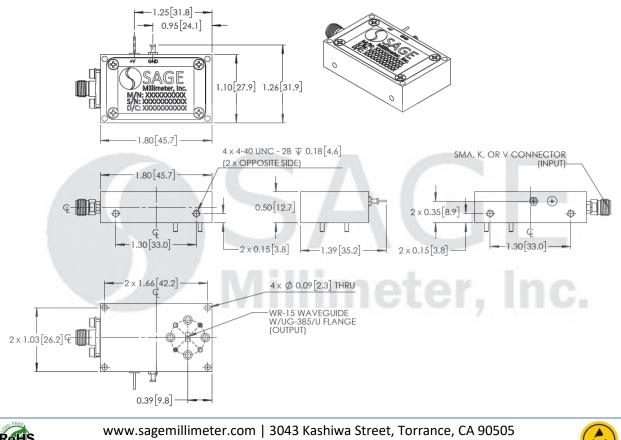
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Bias: +8 V_{DC}/800 mA, Input Power: +5 dBm









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Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C case temperature.
- SAGE Millimeter, Inc. 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. SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.





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