

SFA-503753816-15SF-E1

V-Band, X8 Active Frequency Multiplier, 50 to 75 GHz, +16 dBm P_{out}

SFA-503753816-15SF-E1 is a V-Band active X8 frequency multiplier. The multiplier has an input frequency of 6.25 to 9.375 GHz with a typical input power of -3 dBm and an output frequency of 50 to 75 GHz with a typical output power of +16 dBm. The multiplier also has a typical harmonic suppression of -15 dBc. The DC power requirement for the multiplier is +8 V_{DC}/500 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.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	6.25 GHz		9.375 GHz
Input Power		-3 dBm	+20 dBm
Output Frequency	50 GHz		75 GHz
Output Power		+16 dBm	
Harmonic Suppression		-15 dBc	
Spurious		-60 dBc	
Port Return Loss		10 dB	
DC Voltage	+6 VDC	+8 VDC	+15 VDC
DC Supply Current		550 mA	
Specification Temperature		+25°C	
Operating Temperature	0°C		+50°C

Mechanical Specifications:

Item	Specification
Input Port	SMA (F)
Output Port	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

ECCN

3A001.b.4

FEATURES

- Full Band Coverage
- High Output Power
- Low Harmonic Emission

APPLICATIONS

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

SUPPLEMENTAL DETAILS



[illegible]

- 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.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.
- Other mechanical configurations are available under different model numbers.

- 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.
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- 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