

## SFA-263403212-28SF-E1

### X2 Active Frequency Multiplier, Ka Band, 13 to 20 GHz

**SFA-263403212-28SF-E1** is an active X2 frequency multiplier. The multiplier has an input frequency of 13 to 20 GHz with a typical input power of +8 dBm and an output frequency of 26 to 40 GHz with a output power of +12 dBm. The multiplier also has a typical harmonic suppression of -20 dBc. The DC power requirement for the multiplier is +15 VDC/100 mA. The input port of this model is a female SMA connector and the output port is a WR-28 waveguide with a UG-599/U flange. Other port configurations, such as right angle, are also available under different model numbers.



#### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	13 GHz		20 GHz
Input Power		+8 dBm	+12 dBm
Output Frequency	26 GHz		40 GHz
Output Power	+12 dBm		
Harmonics		-20 dBc	-18 dBc
DC Voltage		+15 VDC	
DC Supply Current		100 mA	
Specification Temperature		+25°C	
Operating Temperature	0°C		+50°C

#### Mechanical Specifications:

Item	Specification
Input	SMA (F)
Output	WR-28 Waveguide with UG-599/U Flange
Bias	Solder Pin
Case Material	Aluminum
Finish	Gold Plated
Outline	FA-ZA

#### ECCN

EAR99

#### FEATURES

- Wide Band Coverage
- Low Harmonic Components

#### APPLICATIONS

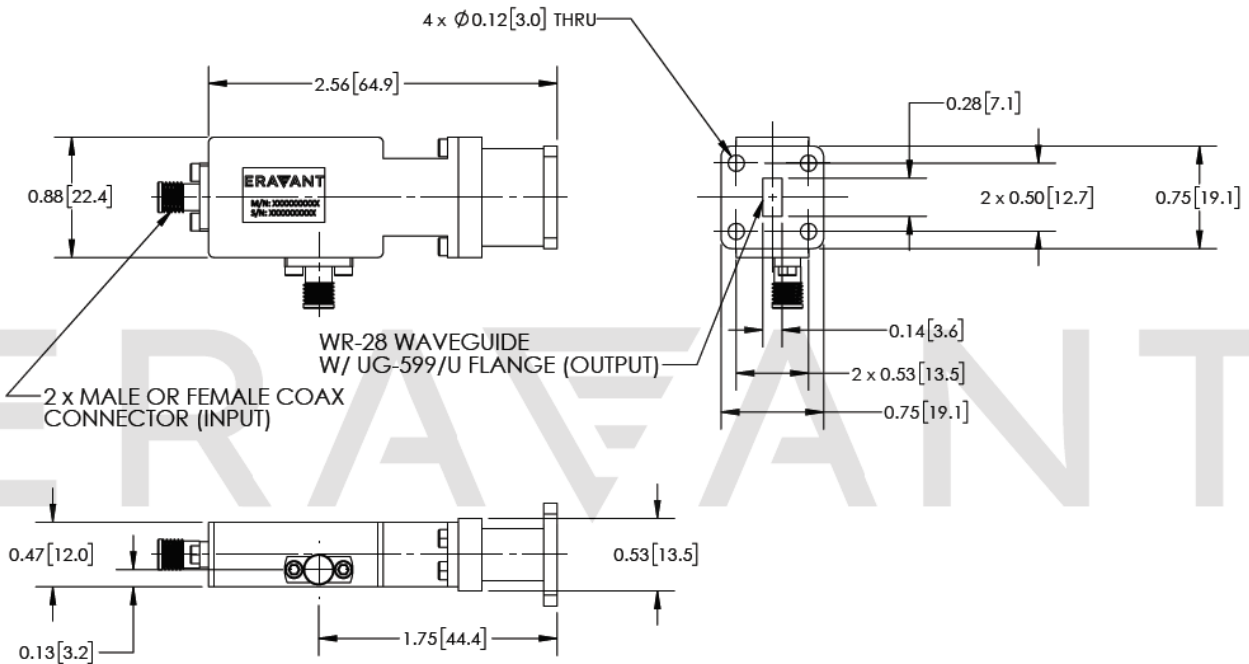
- 5G
- Frequency Extenders
- Source Modules
- Communication Systems

#### SUPPLEMENTAL DETAILS



## SFA-263403212-28SF-E1

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



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### NOTE:

- Other mechanical configurations are available under different model numbers.
- Eravant reserves the right to change the information presented without notice.

### 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 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.

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