# SFA-203403229-KFSF-S1

### X2 Active Frequency Multiplier, Ka Band, 20 to 40 GHz, +29 dBm Pout

#### **Description:**

**Model SFA-203403229-KFSF-S1** is an active X2 frequency multiplier. The multiplier has an input frequency of 10 to 20 GHz with a typical input power of +29 dBm and an output frequency of 20 to 40 GHz with a typical output power of +5 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>/1,800 mA. The input port is a female SMA connector and the output is a female K connector. Other port configurations are available under different model numbers.

#### Features:

- Wide Band Coverage
- High Output Power
- Low Harmonic Components

#### **Electrical Specifications:**

# G SAGE

5G Systems

**Applications:** 

- Frequency Extenders
- Source Modules
- Communication Systems

Parameter	Minimum	Typical	Maximum	
Input Frequency	10 GHz		20 GHz	
Input Power	+1 dBm	+5 dBm	+10 dBm	
Output Frequency	20 GHz		40 GHz	
Output Power		+29 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>	+12 V <sub>DC</sub>	
DC Supply Current		1,800 mA		
Specification Temperature		+25°C		
Operating Temperature	0°C		+50°C	

#### **Mechanical Specifications:**

Item	Specification	14	
Input	SMA (F)	7	
Output	K (F)		
Bias	Solder Pin		
Case Material	Aluminum		
Finish	Gold Plated		
Weight	1.3 Oz		
Size	1.20" (W) x 1.20" (L) x 0.50" (H)		
Outline	BG-SC-1		

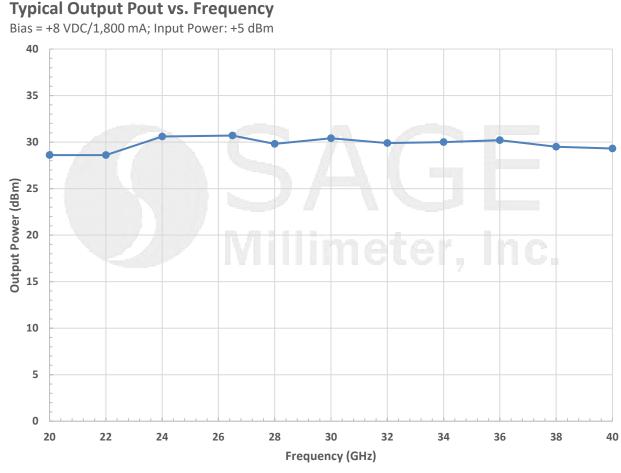


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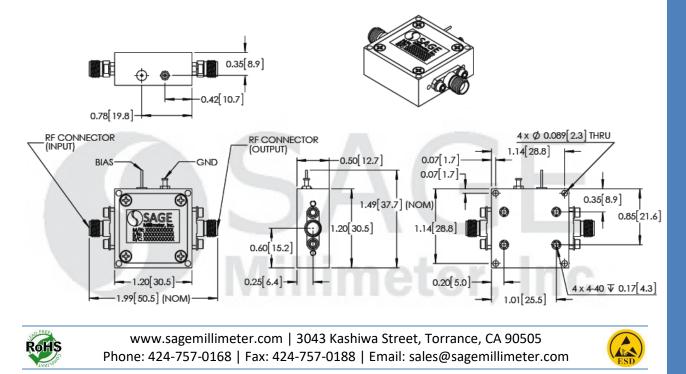


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**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches [millimeters])



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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.
- 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.
- 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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