

SFA-203403229-KFSF-S1

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

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 0 dBm and an output frequency of 20 to 40 GHz with a typical output power of +29 dBm. The multiplier also has a typical harmonic suppression of -15 dBc. The DC power requirement for the multiplier is +8 VDC/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.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	10 GHz		20 GHz
Input Power		0 dBm	+20 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 _{DC}	+8 V _{DC}	+12 V _{DC}
DC Supply Current		1,800 mA	
Specification Temperature		+25°C	
Operating Temperature	0°C		+50°C

Mechanical Specifications:

Item	Specification
Input	SMA (F)
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

ECCN

EAR99

FEATURES

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

APPLICATIONS

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

SUPPLEMENTAL DETAILS



RFsat: +8Vdc/ 3,000 mA



NOTE:

- All testing was performed under +25 °C case temperature.
- 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.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **Eravant torque wrench, model SCH-08008-S1, is highly recommended.**

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