

SFA-203403413-KFSF-S1

X4 Active Frequency Multiplier, 20 to 40 GHz

SFA-203403413-KFSF-S1 is an active X4 frequency multiplier. The multiplier has an input frequency of 5 to 10 GHz with a typical input power of +5 dBm and an output frequency of 20 to 40 GHz with a typical output power of +13 dBm. The multiplier also has a typical harmonic suppression of -20 dBc. The DC power requirement for the multiplier is +8 VDC/300 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	5 GHz		10 GHz
Input Power		+5 dBm	+10 dBm
Output Frequency	20 GHz		40 GHz
Output Power		+13 dBm	
Harmonic Suppression		-15 dBc	
Spurious		-60 dBc	
Return Loss		10 dB	
DC Voltage	+6 V _{DC}	+8 V _{DC}	+12 V _{DC}
DC Supply Current		300 mA	
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

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

ECCN

EAR99

FEATURES

- Broadband Coverage
- Low Harmonic Components
- High Output Power

APPLICATIONS

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

SUPPLEMENTAL DETAILS



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.
- 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 degrade performance and/or damage the device.
- 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.