SST-2430630005-42-S1

K-Band Transmitter, 21.0 to 27.0 GHz

Description:

Model SST-2430630005-42-S1 is a K-Band transmitter. The transmitter has a typical conversion gain of 3 dB with a typical IF input P-1 dB of +5 dBm in the frequency range of 21.0 to 27.0 GHz and a IF output frequency range of DC to 4.0 GHz. The required LO power and frequency range are +0 dBm and 12.0 GHz, respectively. The LO and IF port are both equipped with female SMA connectors and the RF port is a WR-42 waveguide with a UG595/U flange. K(F) RF port option is available under a different model number.



Features:

- Compact Size
- Sub-harmonically Pumped Mixer
- Fully Integrated Module

Radar Systems

Applications:

- Communication Systems
- System Integration

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
IF Input Frequency	10 MHz		4.0 GHz
IF Input P-1 dB		+5 dBm	
RF Output Frequency	21.0		27.0 GHz
IF to RF Conversion Gain	0 dB	3 dB	
2LO to RF Isolation		35 dB	
2LO to IF Isolation		35 dB	
LO Frequency		12.0 GHz	
LO Input Power	-4 dBm	0 dBm	+13 dBm
Bias Voltage	+6 V _{DC}	+10 V _{DC}	+15 V _{DC}
Bias Current		170 mA	
Specification Temperature		+25 °C	
Operating Temperature	-25 °C		+65 °C

Mechanical Specifications:

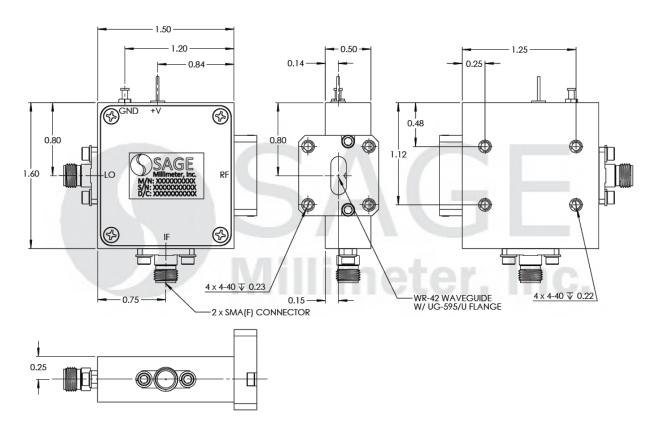
ltem	Specification
RF Port	WR-42 Waveguide with UG595/U Flange
IF and LO Port	SMA (F) and SMA (F)
Bias	Solder Pin
Size	1.60" (W) X 1.50" (L) X 0.50" (H)
Weight	2.0 Oz
Finish	Gold Plated
Outline	ST-SK

www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com

SST-2430630005-42-S1

K-Band Transmitter, 21.0 to 27.0 GHz

Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



Note:

- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.
- Other mechanical configurations are available under different model number.

Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- The device is static sensitive. Always follow ESD rules when working with the device.
- Any foreign objects into the waveguide will cause performance degradation and possible device damage.
- The case temperature of the device shall never exceed +85°C. Use proper Heatsink or fan if necessary.

