SOW-11305316-SF-U2

Advanced

Broadband Voltage Tuned Oscillator, 10.50 GHz, ±2.5 GHz, +16 dBm

Description:



Model SOW-11305316-SF-U2 is a broadband, voltage tuned oscillator with a frequency tuning range of 8.00 to 13.00 GHz. The oscillator takes a DC bias of +12 V_{DC}/300 mA and delivers +16 dBm minimum output power with low phase noise and harmonic emissions. The tuning voltage range is from 0 to +15 V_{DC}. The oscillator measures 1.8" long, 1.0" wide and 0.7" tall. The RF output port is equipped with an SMA(F) connector and the tuning part is with an SMA(F) connector.

Features:

- Broad Tuning Bandwidth
- Flat Output Power

Applications:

- Test Sources
- Signal Generation
- Lab Test Setups

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	8.00		13.00
Power Output	+16 dBm		
Electrical Tuning Range		±2.5 GHz	
Phase Noise @ 100 KHz Offset	f_{Out} = 8.3 GHz: -85 dBc/Hz f_{Out} = 10.0 GHz: -85 dBc/Hz f_{Out} = 12.0 GHz: -85 dBc/Hz f_{Out} = 13.3 GHz: -85 dBc/Hz		
Bias Voltage	+8.0 V_{DC}	+12.0 V_{DC}	+16.0 V_{DC}
Bias Current		300 mA	
Tuning Voltage Range	0 V_{DC}		+15 V_{DC}
Specification Temperature		+25 °C	
Operating Temperature	20 °C		+70 °C

Mechanical Specifications:

Item	Specification
RF Port	SMA (F)
Tuning Port	SMA (F)
Bias Port	Soldered Pins
Case Material	Aluminum
Finish	Gold Plated
Weight	1 Oz
Size	1.8" (L) x 1.0" (W) x 0.7" (H)
Outline	OW-PC-1

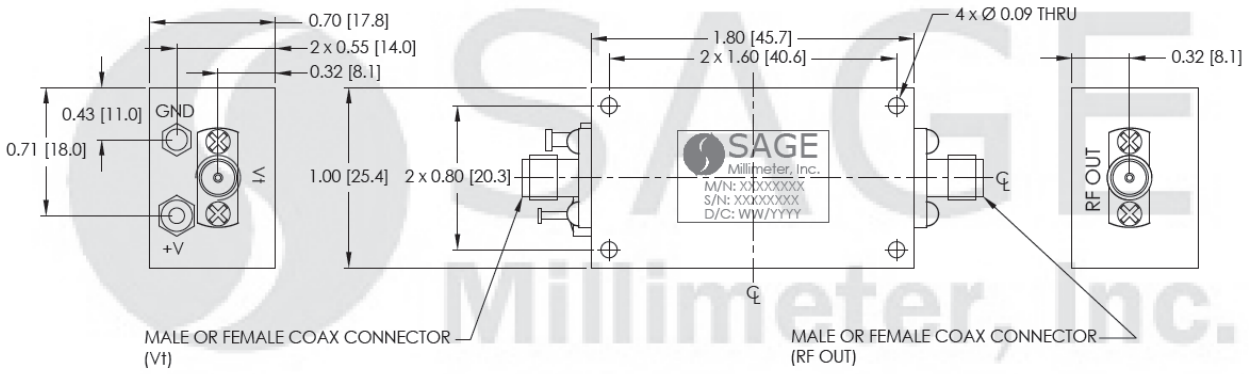
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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- The data given above was tested under case temperature **35°C**.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Reversing polarity will destroy the device.
- The VCO bias voltage should never exceed **+16.0 Volts** and Varactor bias voltage should never exceed **+16 Volts**.
- The case temperature of the device should never exceed **+70˚C**. Use an additional heatsink or fan if necessary.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.92 ± 0.05 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

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