SOD-22301215-SF-S4

Dielectric Resonator Oscillator, 22 GHz, +15 dBm

Description:

Model SOD-22301215-SF-S4 is a mechanically tuned, dielectric resonator oscillator with a center frequency of 22 GHz and a mechanical tuning range of \pm 50 MHz. The oscillator delivers a nominal output power of +15 dBm with a low phase noise and harmonic emissions. The oscillator takes a +12 V_{DC}/380 mA DC bias. The RF output is equipped with a female SMA connector.

Features:

- Low AM/FM Noise and Harmonics
- Mechanically Tunable

Electrical Specifications:



Applications:

- Test Sources
- Signal Generation
- Lab Test Setups

Parameter	Minimum	Typical	Maximum	
Center Frequency		22 GHz		
Power Output		+15 dBm		
Mechanical Tuning Range		±50 MHz		
Frequency Stability			±5 ppm/°C	
Phase Noise @ 10 KHz Offset		-85 dBc/Hz		
Spurious			-70 dBc	
Harmonics			-20 dBc	
Bias Voltage	+10 V _{DC}	+12 V _{DC}	+15 V _{DC}	
Bias Current		380 mA		
Specification Temperature		+25 °C		
Operating Temperature	0°C		+5 0°C	

Mechanical Specifications:

ltem	Specification		
RF Port	SMA (F)		
DC Bias	Solder Pin	11.0	
Material	Aluminum	٢.	
Finish	Chem Film	7	
Weight	4 Oz		
Size	1.61" (L) x 0.98" (W) x 0.71" (H)		
Outline	OD-FCK-NW2		

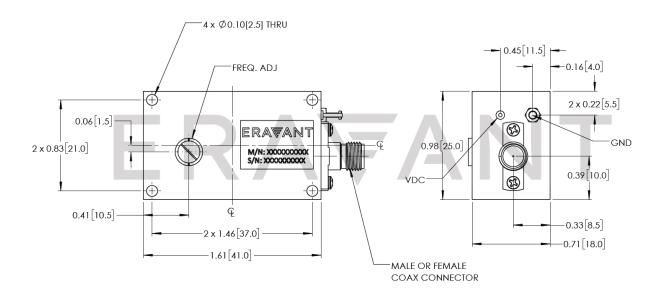


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches[millimeters])



Note:

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

Caution:

- Reversing polarity bias will destroy the device.
- 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 <u>+50°C</u>. Use 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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