

Dielectric Resonator Oscillator, 28.25 GHz, +13 dBm

Description:

Model SOD-28303213-KF-S4-2 is a mechanically tuned, dielectric resonator oscillator with a center frequency of 28.25 GHz and a mechanical tuning range of ± 150 MHz. The oscillator delivers a nominal output power of ± 13 dBm with a low phase noise and harmonic emissions. The oscillator takes a ± 8 V_{DC}/260 mA DC bias. The RF output is equipped with a female 2.92 mm connector.



Features:

- Low AM/FM Noise and Harmonics
- Wide Mechanical Tuning Bandwidth

Applications:

- Test Sources
- Signal Generation
- Lab Test Setups

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Center Frequency		28.25 GHz	
Power Output		+13 dBm	
Mechanical Tuning Range		±150 MHz	
Frequency Stability			±5 ppm/°C
Phase Noise @ 100 KHz Offset		-95 dBc/Hz	
Spurious			-75 dBc
Harmonics			-20 dBc
Bias Voltage		+8 V _{DC}	
Bias Current		260 mA	
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

Item	Specification	
RF Port	K (F)	
DC Bias	Solder Pin	
Case Material	Aluminum	
Finish	Nickel Plated	
Weight	6 Oz	
Size	2.36" (L) x 0.98" (W) x 0.71" (H)	
Outline	OD-FCA-NW1	

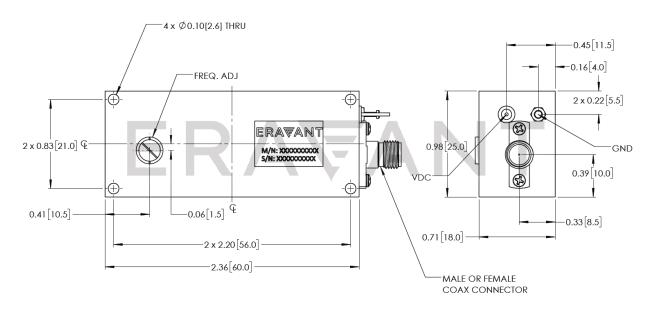


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



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 (0.90 ± 0.02 Nm), should be applied. SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.



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