

Dielectric Resonator Oscillator, 26 GHz, +26 dBm

Description:

Model SOD-26303226-KF-S1 is a mechanically tuned, dielectric resonator oscillator with a center frequency of 26 GHz and a mechanical tuning range of ± 150 MHz. The oscillator delivers a nominal output power of +26 dBm with a low phase noise and harmonic emissions. The oscillator takes a +9 V_{DC}/1400 mA DC bias. The RF output is equipped with a female K connector.



Features:

- Low AM/FM Noise and Harmonics
- Mechanically Tunable

Applications:

- Test Sources
- Signal Generation
- Lab Test Setups

Electrical Specifications:

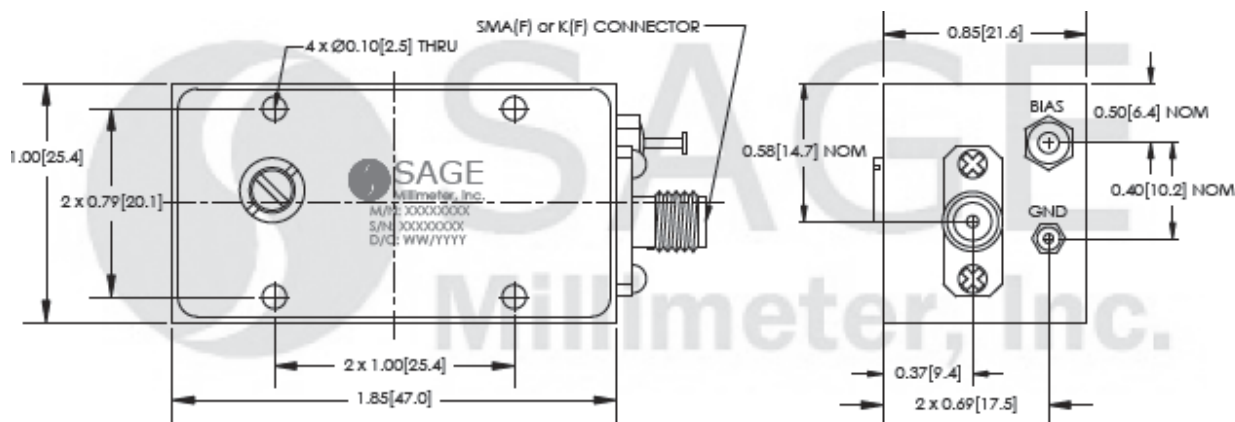
Parameter	Minimum	Typical	Maximum
Center Frequency		26 GHz	
Power Output		+26 dBm	
Mechanical Tuning Range		± 150 MHz	
Frequency Stability			± 4 ppm/ $^{\circ}$ C
Phase Noise @ 100 KHz Offset		-100 dBc/Hz	
Spurious			-75 dBc
Harmonics			-25 dBc
Bias Voltage	+8 V _{DC}	+9 V _{DC}	+12 V _{DC}
Bias Current		1,400 mA	
Specification Temperature		+25 $^{\circ}$ C	
Operating Temperature	0 $^{\circ}$ C		+50 $^{\circ}$ C

Mechanical Specifications:

Item	Specification
RF Port	K(F)
DC Bias	Solder Pin
Finish	Chem Film
Weight	4 Oz
Size	1.85" (L) x 1.00" (W) x 0.85" (H)
Outline	OD-FCK-P1

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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 **+50 °C**. 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.**

