SOD-26303226-KF-S1

Dielectric Resonator Oscillator, 26 GHz, +26 dBm

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 +8 V_{DC}/600 mA DC bias. The RF output is equipped with a female 2.92 mm (K) connector.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Center Frequency		26 GHz	
Power Output		+26 dBm	
Mechanical Tuning Range		±150 MHz	
Frequency Stability			±4 ppm/°C
Phase Noise @ 100 KHz Offset		-100 dBc/Hz	
Spurious			-75 dBc
Harmonics			-20 dBc
Bias Voltage		+8 V_{DC}	
Bias Current		600 mA	700 mA
Specification Temperature		+25 ˚C	
Operating Temperature	0 ˚C		+50 ˚C

Mechanical Specifications:

Item	Specification
RF Port	2.92 mm (K) Female
DC Bias	Solder Pin
Case Material	Aluminum
Finish	Chem Film
Weight	2.2 Oz
Size	2.36” (L) x 0.98” (W) x 0.71” (H)
Outline	OD-FCK-NW3

ECCN

EAR99

FEATURES

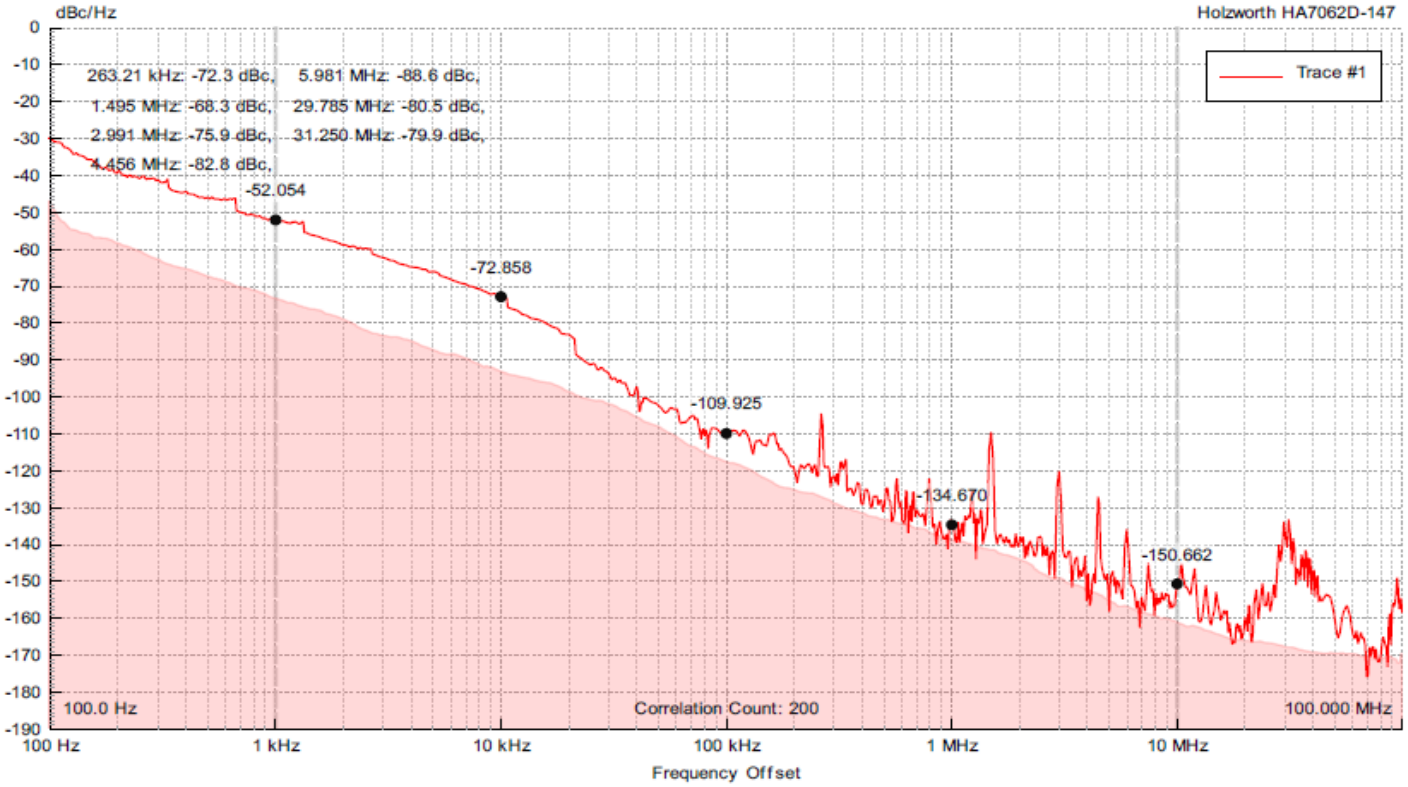
- Low AM/FM Noise and Harmonics
- Wide Mechanically Tuning Bandwidth

APPLICATIONS

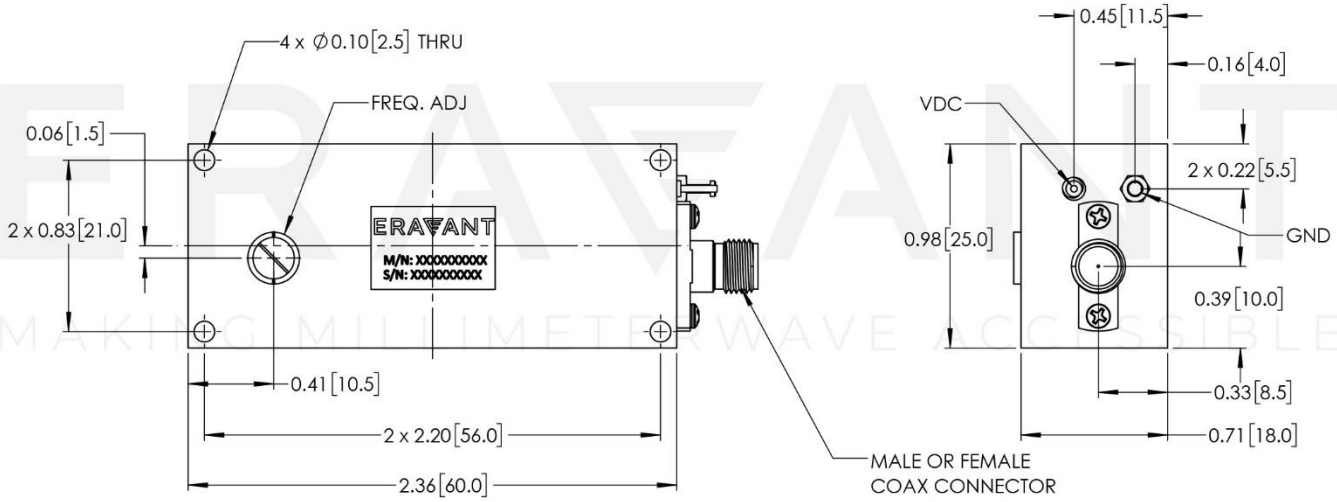
- Test Sources
- Signal Generation
- Lab Test Setups

SUPPLEMENTAL DETAILS

Typical Phase Noise vs. Frequency Offset:



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



NOTE:

- Eravant 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.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model SCH-08008-S1 is highly recommended.