

### Dielectric Resonator Oscillator, 5.92 GHz, +13 dBm

#### **Description:**

**Model SOD-06304113-SF-S4-2** is a mechanically tuned, dielectric resonator oscillator with a center frequency of 5.92 GHz and a mechanical tuning range of  $\pm 20$  MHz. The oscillator delivers a nominal output power of  $\pm 13$  dBm with a low phase noise and harmonic emissions. The oscillator takes a  $\pm 12$  V<sub>DC</sub>/200 mA DC bias. The RF output is equipped with a female SMA 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		5.92 GHz	
Power Output		+13 dBm	
Mechanical Tuning Range		±20 MHz	
Frequency Stability			±5 ppm/°C
Phase Noise @ 100 KHz Offset		-90 dBc/Hz	
Spurious			-75 dBc
Harmonics			-20 dBc
Bias Voltage		+12 V <sub>DC</sub>	
Bias Current		200 mA	
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

## **Mechanical Specifications:**

Item	Specification	
RF Port	SMA (F)	
DC Bias	Solder Pin	
Case Material	Aluminum	
Finish	Chem Film	
Weight	4 Oz	
Size	1.61" (L) x 0.98" (W) x 0.71" (H)	
Outline	OD-FSX-NW1	



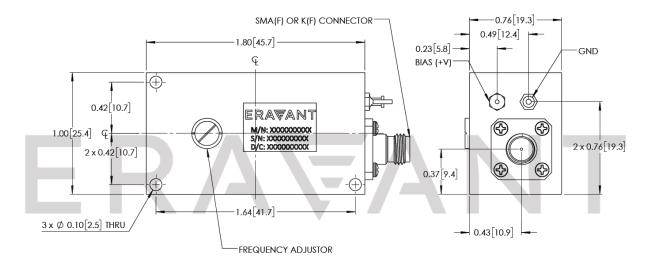
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www.eravant.com | 501 Amapola Avenue, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: support@eravant.com

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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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