

K-Band Phase Locked Oscillator, 24.5 GHz, Internally Referenced

Description:

Model SOP-25310113-KF-I1 is a phase locked oscillator with a typical output frequency of 24.5 GHz and a nominal output power of +13 dBm. The PLO is internally referenced. The low phase noise of the oscillator is attributed to the quality of the internal reference source. The oscillator has a typical harmonic suppression of -25 dBc and spurious of -75 dBc with a phase noise of -104 dBc/Hz at 10 KHz offset.



Features:

- High Output Power
- Low Phase Noise
- Low Harmonic Components

Applications:

- Radar Systems
- Communication Links
- Transmitters and Receivers

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency		24.5 GHz	
Output Power		+13 dBm	
Phase Noise (Internally Referenced) @ 10 kHz		-104 dBc/Hz	
Harmonic Suppression		-25 dBc	
Spurious		-75 dBc	
DC Voltage Supply		+12 Vdc	
Frequency Stability (Internally Referenced)		±5 ppm	
Operating Temperature	0°C		+50°C

Mechanical Specifications:

Item	Specification	
Output	K (F)	
Bias	Solder Pin	
Case Material	Aluminum	
Finish	Nickel Plated	
Weight	4 Oz (Excluding the Heatsink)	
Size	2.25" (W) 2.25" (L) X 1.25" (H)	
Outline	OP-DC-E3	



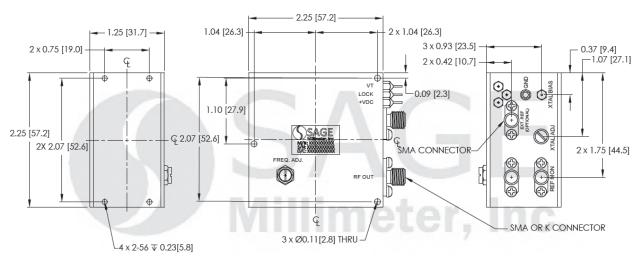


www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com



K-Band Phase Locked Oscillator, 24.5 GHz, Internally Referenced

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:

- 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.





