SOP-39310129-KF-E1

Ka Band Phase Locked Oscillator, 39.2 GHz, Externally Referenced

Description:

Model SOP-39310129-KF-E1 is a phase locked oscillator with a typical output frequency of 39.2 GHz and a typical output power of +29 dBm. The phase noise is proportional to the phase noise of the external reference specified in the electrical specifications below. The oscillator has a typical harmonic suppression of -20 dBc and spurious of -70 dBc. The oscillator requires a 100 MHz reference at +0 dBm typical. The power supply is +12 $V_{DC}/1.7$ A.

Features:

Applications:

- **High Output Power**
- Low Phase Noise

Electrical Specifications:

Low Harmonic Components

- Radar Systems
- **Communication Links**
- Transmitters and Receivers

Parameter	Minimum	Typical	Maximum
Frequency		39.2 GHz	
Output Power		+29 dBm	
Phase Noise	Reference Noise + 20*log(N) + 3 dB		
Harmonic Suppression		-20 dBc	
Spurious		-70 dBc	
External Reference Frequency		100 MHz	
External Reference Input Power		+0 dBm	
DC Voltage		+12 V _{DC}	
DC Supply Current		1.7 A	
Lock Indicator	TTL "High"		
Frequency Stability (Externally Referenced)	Same as reference		
Specification Temperature		+25 °C	
Operating Temperature	0°C		+50°C

Mechanical Specifications:

ltem	Specification	
Output	K (F)	
Bias	Solder Pin	
Size	2.25" (W) 2.25" (L) X 0.63" (H)	
Case Material	Aluminum	
Finish	Nickel Plated	
Outline	OP-EC-NW1	



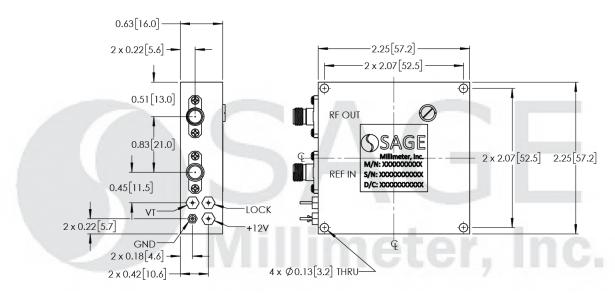
www.eravant.com | 501 Amapola Avenue, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: support@eravant.com



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



Note:

- Eravant reserves the right to change the information presented without notice.
- Other mechanical configurations are available under different model number.

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. Eravant torque wrench, model SCH-08008-S1, is highly recommended.

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