

Phase Locked Oscillator, 1.52 GHz, Externally Referenced

Description:

Model SOP-15201113-SF-E1 is a phase locked oscillator with an output frequency of 1.52 GHz and a nominal output power of +13 dBm. The oscillator is phase locked to an external reference with a frequency of 10 MHz and typical power of 0 dBm. The phase noise of the oscillator is dependent on the quality of the reference source. The oscillator has a typical harmonic suppression of -25 dBc and spurious of -70 dBc.



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		1.52 GHz	
Output Power		+13 dBm	
Phase Noise	Reference Source + 20 Log (N) + 3 dB		
Harmonic Suppression		-25 dBc	
Spurious		-70 dBc	
External Reference Frequency		10 MHz	
External Reference Input Power		0 dBm	
DC Voltage		+12 V _{DC}	
DC Supply Current		120 mA	
Phase Locked Indicator	TTL "High"		
Frequency Stability (Externally Referenced)	Same as reference		
Power Stability	/ 1	±1.0 dB	
Operating Temperature	0°C	7-	+50°C

Mechanical Specifications:

Item	Specification	
RF Output Connector	SMA(F)	
REF Input Connector	SMA(F)	
Bias	Solder Pin	
Case Material	Aluminum	
Finish	Nickel Plated	
Weight	4 Oz	
Size	2.25" (W) X 2.25" (L) X 0.67" (H)	
Outline	OP-EC-E2	



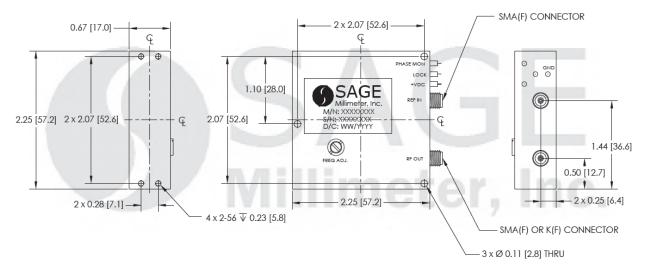
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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.
- Other mechanical configurations are available under different model numbers.

Caution:

- 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.





