

Oscillators

Miniature PLDRO, 5.2 GHz

Model: OSC039



Features:

- Small Size: 3 cubic inches
- + 16 dBm Output Power
- Low Spurious and Harmonics
- Rugged Construction: Airborne Environment
- Phase Locked to External 100 MHz Source



Electrical Specifications

Operating Freq.:	5.2 GHz
Reference Input:	100 MHz @ 0 dBm ± 3 dB
Frequency Stability:	Same as input reference signal
Output Power:	+ 16 dBm ± 1 dB
VSWR:	2:1, nominal
SSB Phase Noise (dBc/Hz, typical):	
Offset	
20 Hz	- 40
100 Hz	- 80
1 kHz	- 95
20 kHz	- 113
100 kHz	- 117
1 MHz	- 142
10 MHz	- 149
AM Noise:	0.12 % rms, max (20 to 3000 Hz)
FM Noise:	2.7 Hz rms, max (20 to 3000 Hz)
Spurious:	> - 80 dBc, typical
Harmonics:	> - 40 dBc, typical
BITE Scheme:	Phase Lock (CMOS "1" = Lock)
DC Power:	+ 15.5 V ± 4 % @ 237 mA, nominal - 15.5 V ± 4 % @ 80 mA, nominal
Power Consumption:	5 W, nominal

Environmental Specifications

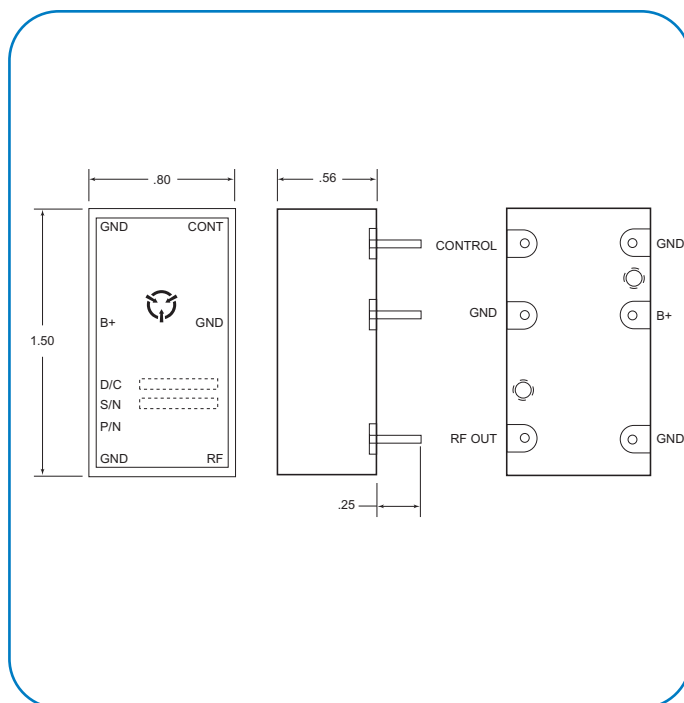
Operating Temperature: - 54 to + 85 °C, baseplate
Environment: Airborne

Mechanical Specifications

Size: (excluding projections)
2.125 x 1.5 x 0.95 inches
54 x 38 x 24 mm

Connectors: GPO type

Weight: 4.5 oz (128 g), maximum



Specifications subject to change without notice.