

# Oscillators

## High Stability OCXO 100 MHz

### Model: OSC020



### Features:

- SC - Cut Crystal
- Excellent Stability:  $\pm 0.2$  ppm, typical
- Low Vibration Sensitivity:  $5 \times 10^{-10}/g$
- Wide Operating Temperature:  $- 54$  to  $+ 85$  °C
- Excellent Ripple Voltage Rejection for EMI Suppression
- DC Regulated & Filtered



### Electrical Specifications

Operating Frequency:	100 MHz
Stability:	$\pm 1$ ppm / year, maximum
Temperature Stability:	$\pm 0.2$ ppm, typical
Warm-Up Time:	6 minutes, typical
Set Accuracy:	$\pm 0.1$ ppm
Output Power:	+ 6 dBm $\pm$ 1.5 dB, typical
Output VSWR:	2.0:1, typical
SSB Phase Noise (dBc/Hz, typical):	Note 1

#### Offset

10 Hz	- 90
100 Hz	- 120
1 kHz	- 147
10 kHz	- 160

Spurious: Note 1	> - 80 dBc, typical
Harmonics:	- 50 dBc, typical
Vibration Sensitivity:	$5 \times 10^{-10}/g$ , typical
DC Power:	+ 15 V $\pm$ 2%
Ripple	200 mV <sub>pp</sub> (10 Hz to 100 kHz); all spurious within specified levels
Steady-State	180 mA, nominal ( $- 54$ °C); 45 mA, nominal ( $+ 85$ °C)
Warm-Up	300 mA, nominal
Power Consumption:	2.7 W, nominal ( $- 54$ °C)

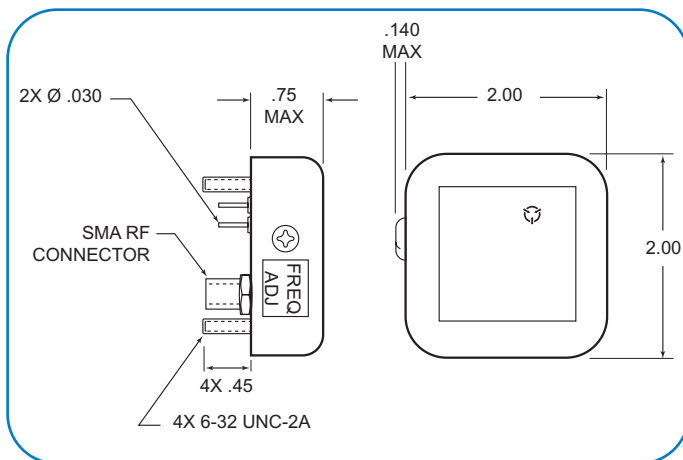
Note 1: Static conditions only.

### Environmental Specifications

Operating Temperature:	- 54 to + 85 °C, baseplate
Operating Vibration:	6 g <sub>rms</sub>
Environment:	Airborne and Ground

### Mechanical Specifications

Size (excluding connectors):	2 x 2 x 0.75 inches 51 x 51 x 19 mm
Weight:	3 oz (85 g), nominal
RF Connectors:	SMA (Female)



Specifications subject to change without notice.