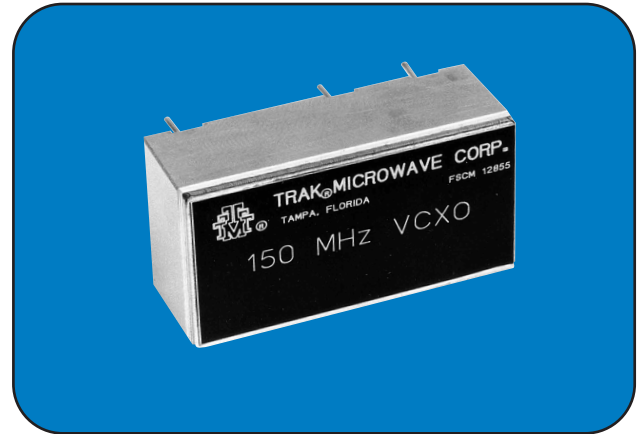


Oscillators  
Miniature VCXO, 150 MHz  
Model: OSC022



**Features:**

- Pin Mount Package: < 0.7 cubic inches
- Low Spurious: > - 80 dBc
- Low Vibration Sensitivity: <  $2.5 \times 10^{-9}$ /g, typical



**Electrical Specifications**

Operating Frequency:	150 MHz <sup>Note 1</sup>
Electrical Tuning Range:	$\pm 30$ kHz (200 ppm)
Tuning Voltage Range:	$\pm 5$ V
Frequency Settling Time:	300 $\mu$ sec to within 10 Hz of the final value for a 5 V change
Temperature Stability:	less than 0.625 Hz/sec after warm-up
Warm Up Time:	less than 3 minutes from - 32 °C
Output Power:	+ 10 dBm $\pm 1$ dB, typical
SSB Phase Noise (dBc/Hz, typical):	
<b>Offset</b>	
10 Hz	- 60
100 Hz	- 92
1 kHz	- 120
10 kHz	- 142
Spurious:	- 80 dBc, maximum @ offsets < 10 MHz - 60 dBc, maximum @ offsets 10 MHz
Harmonics:	- 50 dBc, typical
Output VSWR:	2.0:1 maximum
Frequency Pulling:	0.3 kHz, typical; 2 kHz, maximum <sup>Note 2</sup>
Frequency Pushing:	< 0.1 kHz/V, typical; 2 kHz/V, maximum <sup>Note 2</sup>
Vibration Sensitivity:	$2.5 \times 10^{-9}$ /g, typical; $5 \times 10^{-9}$ /g, maximum
DC Power:	+ 15 V $\pm 10\%$ @ 100 mA, nominal
Power Consumption:	1.5 W, nominal

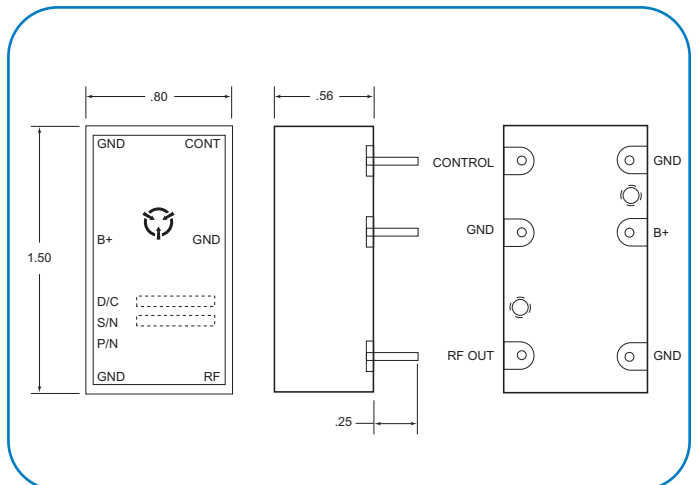
Note 1: Other operating frequencies are available.  
Note 2: Pushing and pulling requirements are referenced to 10 dB return loss at all phases.

**Environmental Specifications**

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

**Mechanical Specifications**

Size (excluding pins): 1.5 x 0.8 x 0.56 inches  
38 x 20 x 14 mm  
Weight: 0.73 oz (20.7 g), nominal  
DC & RF Connectors: Pins



Specifications subject to change without notice.