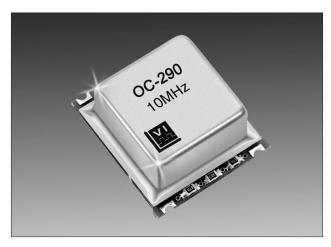
Oven Controlled Crystal Oscillators (OCXO's)

OC-290



Description:

Small SMD OCXO with tight stability. AT and SC-cut versions available.

Features

- 5 MHz, 10 MHz, 13 MHz standard. Other frequencies available from 2 to 80 MHz
- Stability as low as ±5 x 10⁻⁸ over 0°C to 50°C
- Aging: 1 x 10⁻⁹ per day
- Package: 25.4 x 22 x 10.5 mm
- Supply voltage: +3.3 or +5.0 V

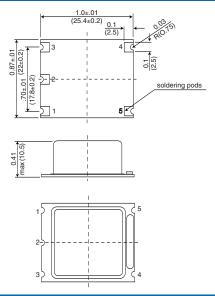
Performance Characteristics

Parameter	Characteristic
Frequency:	10, 12.8, 16.384, 19.44, 20, 24.576, 20.48, 32.768, 38.88, 40 and 77.76 MHz Available from 2 MHz to 80 MHz
Package Size:	25.4 x 22.0 x 10.5 mm (1.0" x 0.9" x 0.42")
Supply Voltage (Vdd):	$C = 5 \text{ Vdc } \pm 5\%$ $D = 3.3 \text{ Vdc } \pm 5\%$ (Other supply voltages are available upon request)
Supply Current:	<5W peak at turn-on, <1.25W stabilized @ 25°C (Temp Range B & D) <5W peak at turn-on, <1.5W stabilized @ 25°C (Temp Range F)
Output Type:	HCMOS, LVHCMOS Sinewave +0 dBm / 50 ohm 10 TTL
Standard Stability Options: Note: Not all stabilities are available with all frequency/output combinations. Please consult factory.	B - 508 = ±5x10 ⁻⁸ over 0°C to +50°C B - 758 = ±7.5x10 ⁻⁸ over 0°C to +50°C *B - ST3 = Stratum 3 over 0°C to +50°C D - 758 = ±7.5x10 ⁻⁸ over-20°C to +70°C D - 107 = ±1.0x10 ⁻⁷ over -20°C to +70°C *D - ST3 = Stratum 3 over -20°C to +70°C F -107 = ±1.0x10 ⁻⁷ over -40°C to +85°C *F -ST3 = Stratum 3 over -40°C to +85°C *F -507 = ±5.0x10 ⁻⁷ over -40°C to +85°C *STRATUM 3 per GR-1244-CORE Table 3-1 Total Stability: <4.6 x 10 ⁻⁶ for all causes and 10 years vs. Holdover: <3.2 x 10 ⁻⁷ for all causes and 24 hours vs. Temperature: <2.8 x 10 ⁻⁷ peak to peak
Stability vs. Supply:	<5 pb for a 1% change in Supply Voltage
Aging:	A : 1 x 10 ⁻⁸ /day, 2x10 ⁻⁶ /year
Electrical Frequency Adjust:	10 x 10 ⁻⁶ typical range (with Aging A or B) 2 x 10 ⁻⁶ typical range (with Aging C or D)
Initial Accuracy @ +25°C:	±1.5 ppm max after reflow

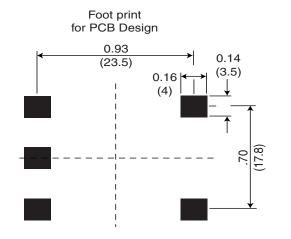
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Outline Drawing



Pad Layout

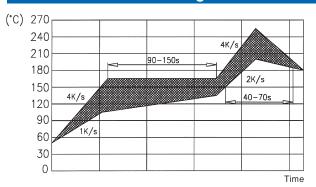


OCXO

Pin Out Information

i iii Gut iiiiGiiiiatiGii	
1	Control voltage VC
2	Reference voltage output VREF
3	Supply voltage V _B
4	RF-output
5	Ground, case

Recommended Soldering Profile



Ordering Information

