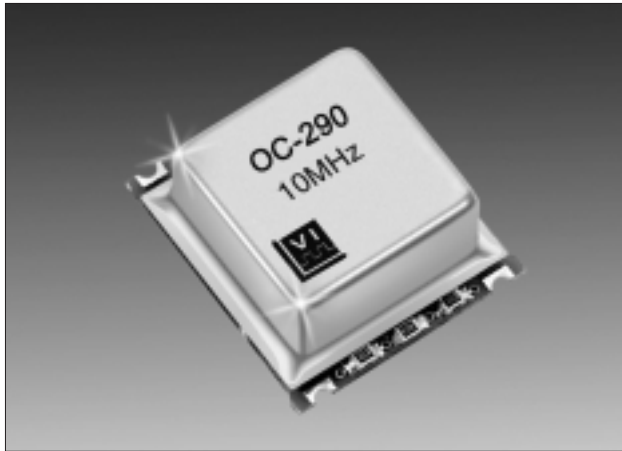


Oven Controlled Crystal Oscillators (OCXO's)

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 $\pm 5 \times 10^{-8}$ over 0°C to 50°C
- Aging: 1×10^{-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 Vdc $\pm 5\%$ D = 3.3 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:	<p>B - 508 = $\pm 5 \times 10^{-8}$ over 0°C to +50°C B - 758 = $\pm 7.5 \times 10^{-8}$ over 0°C to +50°C *B - ST3 = Stratum 3 over 0°C to +50°C D - 758 = $\pm 7.5 \times 10^{-8}$ over -20°C to +70°C D - 107 = $\pm 1.0 \times 10^{-7}$ over -20°C to +70°C *D - ST3 = Stratum 3 over -20°C to +70°C F - 107 = $\pm 1.0 \times 10^{-7}$ over -40°C to +85°C *F - ST3 = Stratum 3 over -40°C to +85°C F - 507 = $\pm 5.0 \times 10^{-7}$ over -40°C to +85°C</p> <p>*STRATUM 3 per GR-1244-CORE Table 3-1 Total Stability: <math>4.6 \times 10^{-6}</math> for all causes and 10 years vs. Holdover: <math>3.2 \times 10^{-7}</math> for all causes and 24 hours vs. Temperature: <math>2.8 \times 10^{-7}</math> peak to peak</p>
Note:	Not all stabilities are available with all frequency/output combinations. Please consult factory.
Stability vs. Supply:	<5 pb for a 1% change in Supply Voltage
Aging:	<p>A: 1×10^{-8}/day, 2×10^{-6}/year C: 1×10^{-9}/day, 3×10^{-7}/year B: 3×10^{-9}/day, 1×10^{-6}/year N: PTR Stratum 3</p>
Electrical Frequency Adjust:	<p>10×10^{-6} typical range (with Aging A or B) 2×10^{-6} typical range (with Aging C) (with F; no frequency adjustment)</p>
Initial Accuracy @ +25°C:	± 1.5 ppm max after reflow

