

AS9100 / ISO9001 Certified

Ultra High Stability

The 260 Series is an ultra high stability/high reliability oven controlled quartz crystal oscillator (OCXO). The 260 Series OCXO offers thermal stabilities from 2.0E-010 to 4.0E-009 over a 100°C temperature range, rivaling Rubidium atomic clock performance without the wearout phenomena associated with Rubidium standards. The 260 Series OCXO has been used in many applications worldwide as a direct replacement for atomic clocks, providing a substantial cost savings both in the short and long term.



Key Features

- Fast Warm-up
- Low Phase Noise
- Hermetically Sealed Package
- AT and SC Crystal Cuts Available
- Wide Frequency Range
- Available in Space Flight Version
- Meets Stratum III, IIIe Requirements

Applications

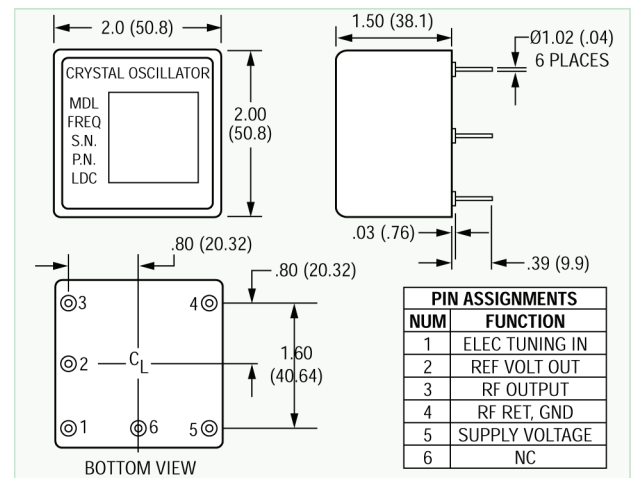
- Base Stations
- GPS Receivers
- Test Equipment
- Rack Mounted Applications
- Military Communication Equipment
- Atomic Standard Replacement

Typical Performance

Parameter	5MHz	10MHz	20MHz
Temperature Range	-30 to +70°C	-30 to +70°C	-30 to +70°C
Thermal Stability	2.0E-10	2.0E-10	2.0E-10
Phase Noise (at 1Hz)	-110dBc/Hz	-95dBc/Hz	-95dBc/Hz
Phase Noise (at 100kHz)	-160dBc/Hz	-160dBc/Hz	-150dBc/Hz
Short Term Stability (1s)	1.0E-12	7.0E-12	2.0E-12
Short Term Stability (10s)	3.5E-12	2.0E-11	6.0E-12
Aging (per year)	1.0E-08	4.0E-08	2.0E-08
Warm-up Power	12W	12W	12W
Continuous Power (25°C)	2.7	2.7	2.9

*RoHS compliant available

Interface Control Drawing

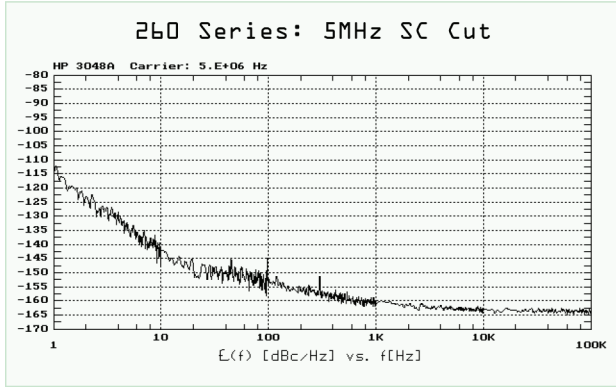


Performance Range

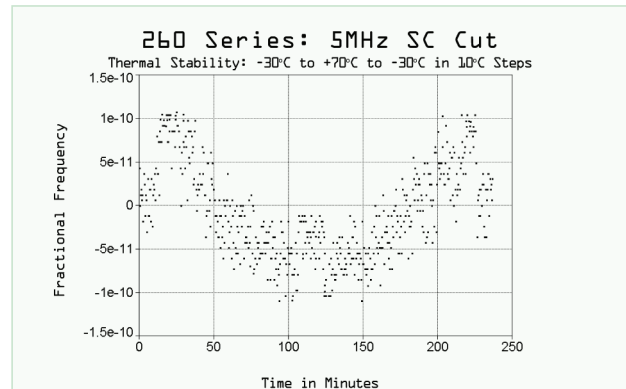
Parameter	Available Range
Frequency	32kHz to 30MHz
Thermal Stability	2.0E-10 to 1.0E-09
Operating Temperature	-40 to +80°C
Aging (per year)	1.0E-08 to 5.0E-08
Supply Voltage	11V to 15V
Supply Voltage Sensitivity	2.0E-11 to 5.0E-10
Output	Sine or CMOS
Harmonics	Down to -30dBc
Warm-up Time (25°C)	15 minutes
Warm-up Power	10 to 12W
Continuous Power (25°C)	2.5 to 3.2W
Tuning Range	±5.0E-07 to ±2.0E-06
Tuning Voltage	Up to ±10V

*Parameters can be modified to meet specific requirements

Phase Noise



Thermal Stability



Aging

