

AS9100 / ISO9001 Certified

Low Profile

The 230 Series Oven Controlled Crystal Oscillator provides high stability in a hermetically sealed package. The 230 Series is available with AT or SC cut crystal. The SC cut version offers a thermal stability of 15ppb over 100°C temp range and 10MHz phase noise performance of -115dBc/Hz at 10Hz offset.



Key Features

- STRATUM III, IIle Performance
- Compact Package
- Hermetically Sealed
- Available with AT or SC cut crystal
- Low Phase Noise
- Wide Frequency Range
- Wide Operating Temperature Range

Applications

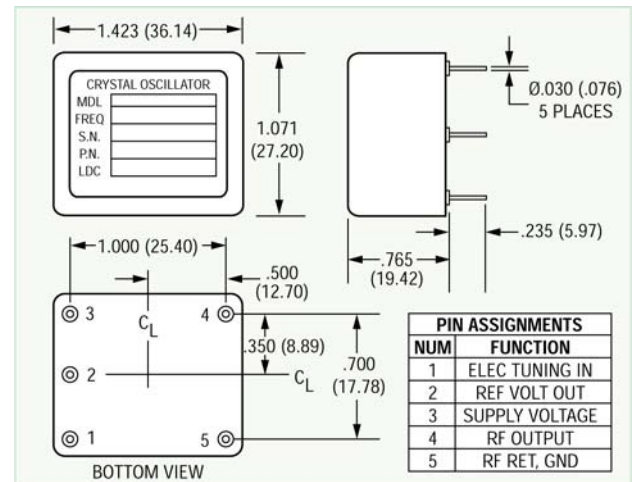
- CDMA
- GPS Receivers
- Test Equipment
- Encryption
- STRATUM III, IIle Telephony
- Cellular Base Stations
- GSM
- PCS

Typical Performance

Parameter	5MHz	10MHz	40MHz
Temperature Range	-30 to +70°C	-40 to +85°C	0 to +50°C
Thermal Stability	1.5E-08	2.5E-08	1.0E-08
Phase Noise (at 1Hz)	-103dBc/Hz	-95dBc/Hz	-80dBc/Hz
Phase Noise (at 100kHz)	-160dBc/Hz	-160dBc/Hz	-147dBc/Hz
Short Term Stability (1s)	7.0E-12	1.0E-11	1.0E-11
Short Term Stability (10s)	2.0E-11	3.0E-11	3.0E-11
Aging (per year)	2.0E-08	5.0E-08	5.0E-08
Warm-up Power	5W	6W	4W
Continuous Power (25°C)	1.4W	1.7W	1.2W

*RoHS compliant available

Interface Control Drawing

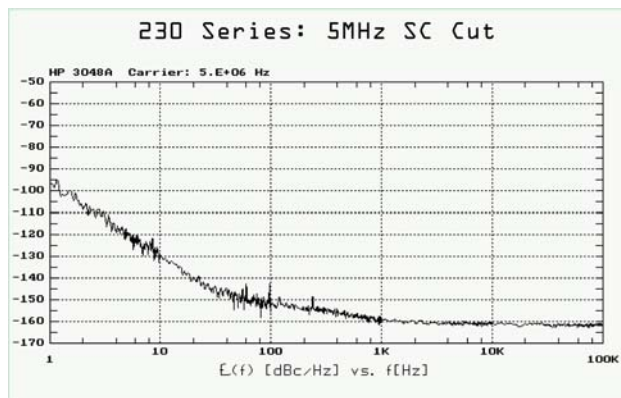


Performance Range

Parameter	Available Range
Frequency	32kHz to 60MHz
Thermal Stability	5.0E-9 to 5.0E-7
Operating Temperature	-40 to + 85°C
Aging (year)	2.0E-08 to 5.0E-07
Supply Voltage	3.3V to 15.0V
Supply Voltage Sensitivity	5.0E-09 to 5.0E-08
Output	Sine(0 to +11dBm) or CMOS
Harmonics	Down to -30dBc
Warm-up Time (25°C)	5 to 10 minutes
Warm-up Power	4W to 7W
Continuous Power (25°C)	1W to 2W
Tuning Range	±1.0E-06 to ±5.0E-06
Tuning Voltage	Within 0 to +10V

*Parameters can be modified to meet specific requirements

Phase Noise



Thermal Stability

