

AS9100 / ISO9001 Certified

Ultra Compact

The 205 Series is one of the most compacted Oven Controlled Crystal Oscillators (OCXOs) in the industry. The hermetically sealed package measures only 0.815”L x 0.515”W x 0.394”H (20.7mm x 13.1mm x 10.0mm). The 205 Series offers a thermal stability of 3.5E-06 over 100°C temperature range, warms up in less than 5 minutes and consumes less than 0.45W at 25°C, making it exceptional for battery powered applications. It can be used as a TCXO replacement for better short term stability. Phase noise is -50dBc/Hz at 1Hz offset with a noise floor of -160dBc/Hz. Frequency range is 8MHz to 200MHz.



Key Features

- Compact Package
- Hermetically Sealed
- Low Phase Noise
- Low Power Consumption
- High Reliability
- Wide Temperature Range
- Wide Frequency Range

Applications

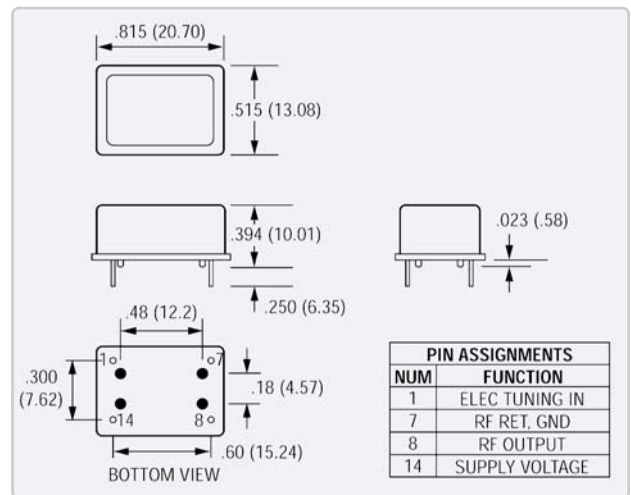
- Mobile Radios
- PCS Systems
- Home Meter Reading
- Stratum III.E
- Battery Powered App
- Instrumentation

Typical Performance

Parameter	50MHz	100MHz	150MHz
Temperature Range	-30 to +70°C	-30 to +70°C	-30 to +70°C
Thermal Stability	±2.0E-06	±3.0E-06	±5.0E-06
Phase Noise (at 1Hz)	-55dBc/Hz	-50dBc/Hz	-45dBc/Hz
Phase Noise (at 100kHz)	-160dBc/Hz	-160dBc/Hz	-160dBc/Hz
Short Term Stability (1s)	3.0E-10	5.0E-10	7.0E-10
Short Term Stability (10s)	1.5E-09	3.0E-09	5.0E-09
Aging (per year)	5.0E-07	1.0E-06	2.0E-06
Warm-up Power	2.5W	2.5W	2.5W
Continuous Power (25°C)	0.45W	0.45W	0.45W

*RoHS compliant available

Interface Control Drawing

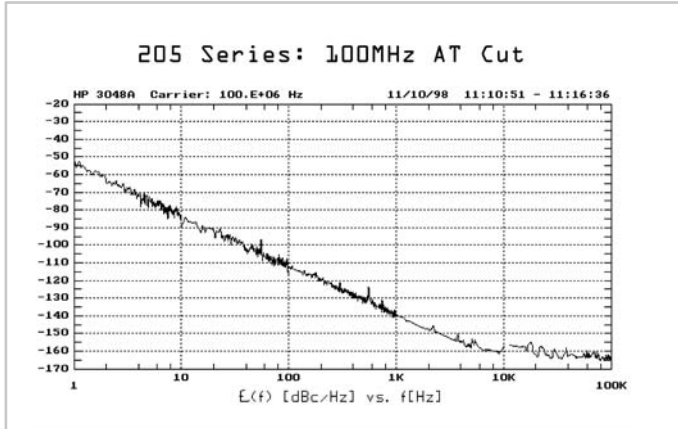


Performance Range

Parameter	Available Range
Frequency	8MHz to 200MHz
Thermal Stability	1.0E-06 to 5.0E-06
Operating Temperature	-40 to +85°C
Aging (per year)	1.0E-06 to 3.0E-06
Supply Voltage	12V
Supply Voltage Sensitivity	5.0E-07 to 1.0E-06
Output	Sine
Harmonics	Down to -30dBc
Warm-up Time (25°C)	5 minutes
Warm-up Power	2.5W
Continuous Power (25°C)	0.45W
Tuning Range	±5.0E-06 to ±2.0E-05
Tuning Voltage	Up to ±10V

*Parameters can be modified to meet specific requirements

Phase Noise



Thermal Stability

