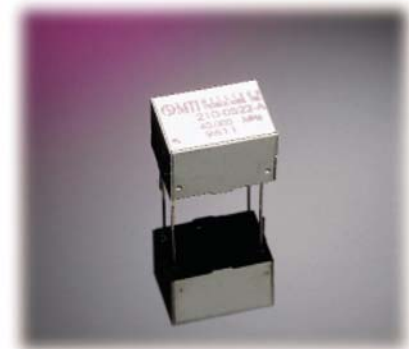


## AS9100 / ISO9001 Certified

The 210 series Oven Controlled Crystal Oscillator is an ideal replacement for any 14-Pin DIP clock oscillator or TCXO where superior performance is required. The 210 Series offers ovenized performance with a thermal stability of 5.0E-07 over 100°C temperature range and 0.7W continuous power consumption at 25°C. The low power consumption makes the 210 series ideal for battery powered applications, point-to-point wireless and instrumentation.



### Key Features

- Low Phase Noise
- Low Power Consumption
- Wide Frequency Range
- 14-Pin Dip Package
- STRATUM III Performance
- TCXO Replacement for better Short Term Stability
- Wide Tuning Voltage Range

### Applications

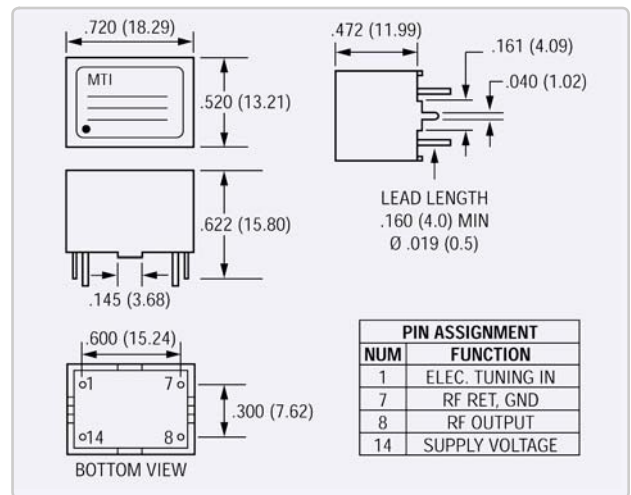
- Microwave Radios
- GPS Receivers
- SONET Clocks
- Instrumentation
- STRATUM III Performance
- V-SAT Terminals

### Typical Performance

Parameter	50MHz	100MHz	150MHz
Temperature Range	-30 to +70°C	-40 to +85°C	-30 to +70°C
Thermal Stability	2.0E-07	5.0E-07	5.0E-07
Phase Noise (at 1Hz)	-60dBc/Hz	-55dBc/Hz	-40dBc/Hz
Phase Noise (at 100kHz)	-155dBc/Hz	-155dBc/Hz	-150dBc/Hz
Short Term Stability (1s)	1.0E-10	3.0E-10	5.0E-09
Short Term Stability (10s)	8.0E-10	1.5E-09	3.0E-09
Aging (per year)	5.0E-07	1.0E-06	5.0E-06
Warm-up Power	2.5W	3.0W	2.5W
Continuous Power (25°C)	0.7W	0.8W	0.7W

\*RoHS compliant available

### Interface Control Drawing

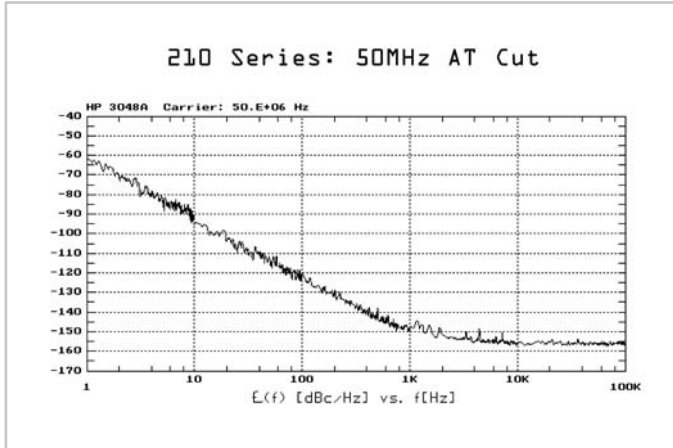


### Performance Range

Parameter	Available Range
Frequency	32kHz to 150MHz
Thermal Stability	1.0E-07 to 1.0E-06
Operating Temperature	-55 to +85°C
Aging (per year)	1.0E-07 to 1.0E-06
Supply Voltage	5V to 12V
Supply Voltage Sensitivity	5.0E-08 to 5.0E-07
Output	Sine or CMOS
Harmonics	Down to -30dBc
Warm-up Time (25°C)	5 minutes
Warm-up Power	2W to 4W
Continuous Power (25°C)	0.5 to 1.0W
Tuning Range	±5.0E-06 to ±1.0E-05
Tuning Voltage	Up to ±10VDC

\*Parameters can be modified to meet specific requirements

## Phase Noise



## Thermal Stability

