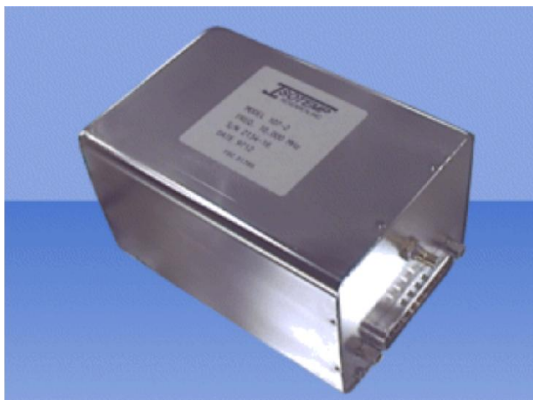


OCXO 107 SERIES



The OCXO107 series oscillators are Isotemp's best offering for frequency stability in quartz crystal oscillators. Features include dual ovens to minimize frequency drifts due to temperature effects, an onboard voltage regulation system and a sixteen bit D/A converter for disciplining the output frequency. These oscillators compare favorably with rubidium standards in harsh environmental conditions.

Specification Table

Parameters	OCXO 107-3
Frequency	10.000000 MHz
R.F. Output	Sine Wave > +3 dBm into 50 ohms Harmonics < -30 dBc Sub-harmonics < -30 dBc
Change in Frequency Versus ..	
Temperature (Ambient) (0°C .. +60°C) Referenced to +25°C	< +/- 0.06 PPB
Time* (Aging) Daily 1st Year	< +/- 0.2 PPB < +/- 30 PPB
Time (Warm-Up) Frequency at 25 minutes After power on @ +25°C Referenced to Frequency at 4 hours	< +/- 10 PPB
Input Voltage (+/- 5% change)	< +/- 0.02 PPB
Other Parameters	
Phase Noise @ 10 Hz	-120 dBc
Electrical Frequency Adjustment Range** By internal 16 bit DAC	> +/- 0.1 PPM < +/- 0.2 PPM
Input Power Oscillator and DAC DAC Oven	+12 VDC +/- 5% < 60 mA -12 VDC +/- 5% < 10 mA +12 VDC +/- 5% < 1.6 A @ turn on, < 6 Watts Steady State @ +25°C
Package	4.00 x 2.72 x 2.35 inches (LxWxH)
Units	1 PPM = 1×10^{-6} 1 PPB = 1×10^{-9}

* All aging stabilities are after storage of up to 1 year and apply after 30 days of continuous operation.
The daily aging rate also applies at the time of shipment from factory.

** The Electrical Frequency Adjustment Range is sufficient for the life of the oscillator.

Specifications subject to change with frequency.

Available Frequency Range: 5 MHz to 50 MHz
Including 5.0, 10.0, 10.23, 10.24, 12.352, 15.36, 16.384, 19.44, and 19.6608 MHz

AVAILABLE OPTIONS:

Square Wave Output, Low Phase Noise, Fast Warm-Up.

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