

LOW NOISE OCXO –OX6749 MODEL

■ FEATURES

Low Noise OCXO

Excellent frequency stability

Mechanical / Electrical frequency adjustment available

APPLICATIONS:

- SATCOM

- BASE STATIONS

- TEST INSTRUMENTS

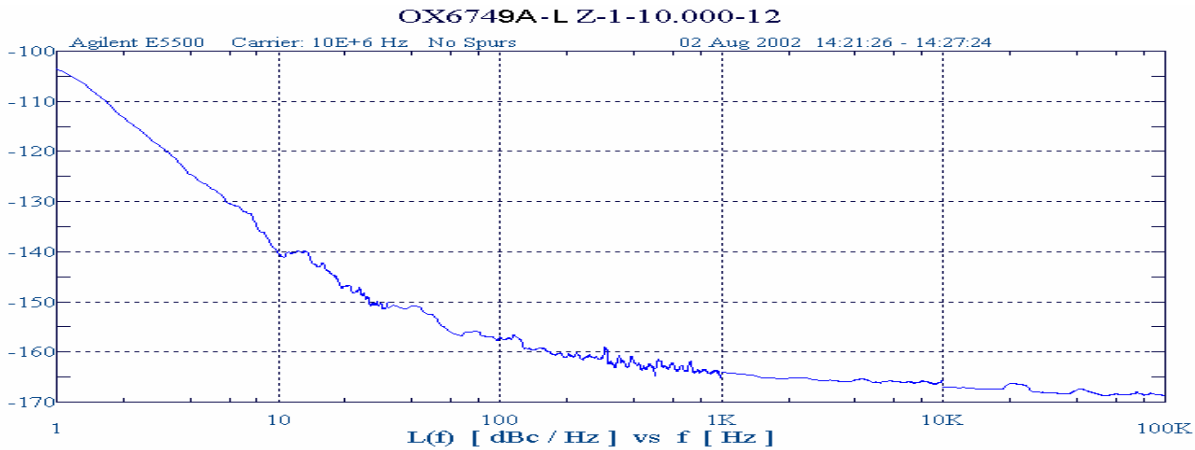
■ ELECTRICAL PERFORMANCE

PARAMETER	LOW NOISE OCXO
	SC CUT CRYSTAL
Oscillator Supply voltage, nom.	12V \pm 5%
Oven Supply voltage, nom.	12V \pm 5%
Power dissipation steady state	3 Watt Max.
Heat up power	6 Watt Max
Heat up time. max. (relative to 2 hours after turn on, following 24 hours off)	3 min Max (Measured at 25°C to within 0.1PPM of final frequency)
Frequency **	10MHz
Frequency Adjustment: Electrical (0 to 10V) Mechanical	0.6 PPM Min Enough to compensate for 10 years of aging
Freq. stability vs. temperature LZ: 0°C to 70°C	\pm 0.01 PPM (Standard, contact factory for different temp ranges and stabilities)
Freq. stability vs. supply changes	\pm 0.002 PPM Max for \pm 5% Change
Freq. stability vs. load changes	\pm 0.002 PPM Max for \pm 5% Change
Long term stability (Aging)	\pm 0.7 PPM Max for 10 Years \pm 0.1 PPM Max for 1 Years \pm 0.0005 PPM/Day Max.
Input Impedance Control Voltage pin	10K Ω
Output	Sine +7dBm
Harmonics, Sub Harmonics	-30dBc(Sine Output)
Spurious	-75dBc(Sine Output)
Short term Stability	1 E-11 /Sec
Phase Noise (Sine Output 10MHZ)	Offset Phase Noise 10Hz -130 dBc/Hz 100Hz -152 dBc/Hz 1000Hz -160 dBc/Hz 10000Hz -165 dBc/Hz 100000Hz -165 dBc/Hz

- ** For Other frequency please consult with factory.

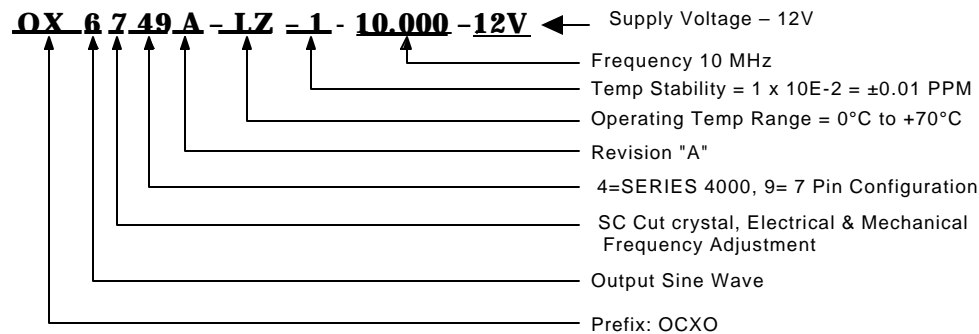
Note: All typical parameters for a 10MHz output and 12V supply. For different frequencies consult factory.

■ **TYPICAL PHASE NOISE**



■ **HOW TO ORDER (PART NUMBER)**

Example:



■ **MECHANICAL SPECIFICATION**

