

**LOW NOISE OCXO –OX6749 MODEL**

■ **FEATURES**

**Low Noise OCXO**  
**Excellent frequency stability**  
**Mechanical / Electrical frequency adjustment available**

**APPLICATIONS:**

- **SATCOM**
- **BASE STATIONS**
- **TEST INSTRUMENTS**

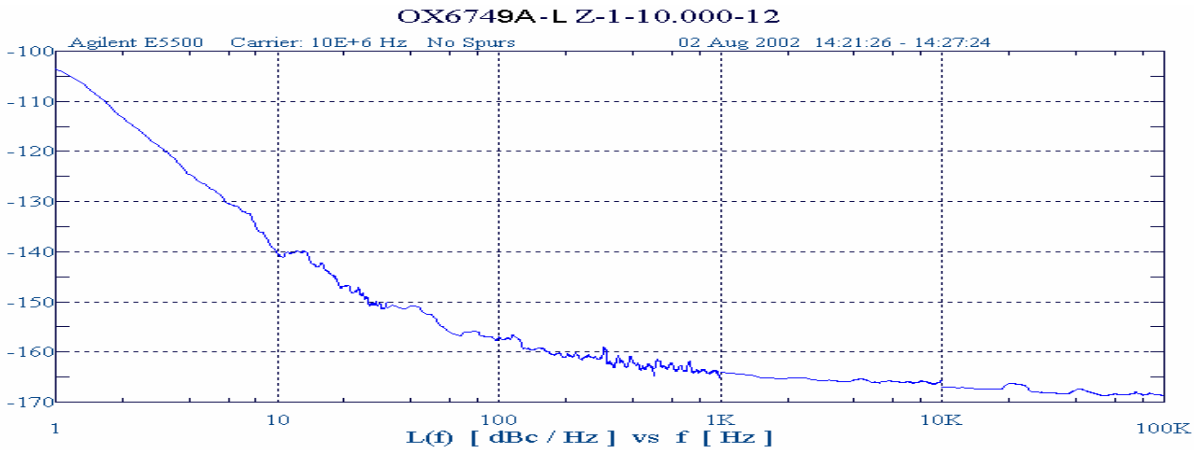
■ **ELECTRICAL PERFORMANCE**

PARAMETER	LOW NOISE OCXO	
	SC CUT CRYSTAL	
Oscillator Supply voltage, nom.	12V ±5%	
Oven Supply voltage, nom.	12V ±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	±0.01 PPM	
	(Standard, contact factory for different temp ranges and stabilities)	
Freq. stability vs. supply changes	±0.002 PPM Max for ±5% Change	
Freq. stability vs. load changes	±0.002 PPM Max for ±5% Change	
Long term stability (Aging)	±0.7 PPM Max for 10 Years ±0.1 PPM Max for 1 Years ±0.0005 PPM/Day Max.	
Input Impedance Control Voltage pin	10KΩ	
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.

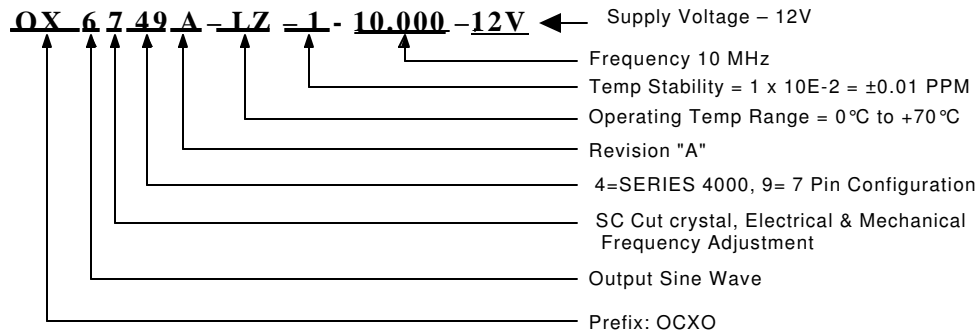
Note: All typical parameters for a 10MHz output and 12V supply. For different frequencies consult factory.

## ■ TYPICAL PHASE NOISE



## ■ HOW TO ORDER (PART NUMBER)

Example:



## ■ MECHANICAL SPECIFICATION

