LOW NOISE OCXO –OX6749 MODEL

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

APPLICATIONS:

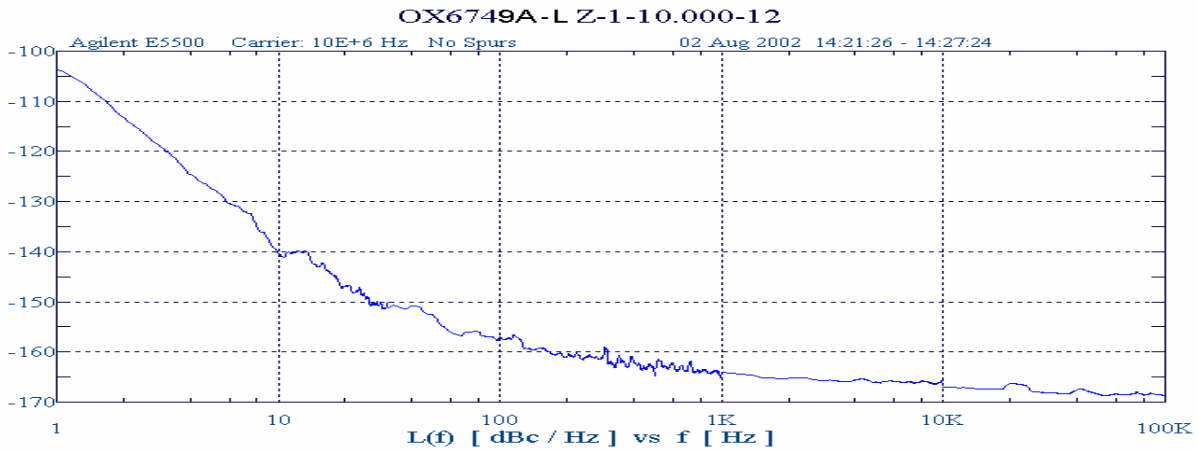
- SATCOM
- BASE STATIONS
- TEST INSTRUMENTS

- **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



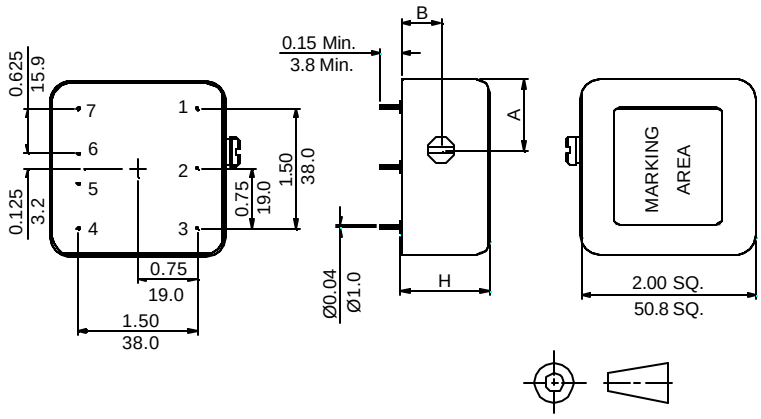
HOW TO ORDER (PART NUMBER)

Example:

OX 6 7 49 A – LZ – 1 - 10.000 –12V ← Supply Voltage – 12V

- Frequency 10 MHz
- Temp Stability = 1 x 10E-2 = ±0.01 PPM
- Operating Temp Range = 0°C to +70°C
- Revision "A"
- 4=SERIES 4000, 9= 7 Pin Configuration
- SC Cut crystal, Electrical & Mechanical Frequency Adjustment
- Output Sine Wave
- Prefix: OCXO

MECHANICAL SPECIFICATION



HEIGHT, MAX. "H":
1.0" / 25.4mm

TRIMMER LOCATION:
A=0.80" / 20.3mm
B=0.38" / 9.7

OUTLINE TOLERANCE:
±0.015" / 0.4mm

PIN FUNCTIONS:
[1] OVEN GROUND
[2] OSC. SUPPLY VOLT.
[3] CONTROL VOLTAGE
[4] CASE / GROUND
[5] OSC. GROUND
[6] RF OUTPUT
[7] OVEN SUPPLY VOLT.

NOTE:
PIN 1,4,5 INTERNALLY