

OCXO SERIES 4000

■ FEATURES APPLICATIONS

Excellent frequency stability - SATCOM
Mechanical / Electrical frequency adjustment available - BASE STA

echanical / Electrical frequency adjustment available - BASE STATIONS - TEST INSTRUMENTS

ELECTRICAL PERFORMANCE

PARAMETER	OCXO SERIES 4000						
	AT CUT CRYSTAL	SC CUT CRYSTAL					
Supply voltage, nom.	15V, 12V, 5V ±5% Standard						
Power dissipation steady state	2.5 Watt Max.						
Heat up power	5 Watt Max						
Heat up time.	7 min Max						
Frequency range	1 To 160 MHz Standard						
Frequency Adjustment: Electrical (0 to 5V) Electrical (0 to 10V) Mechanical	±10PPM Min ±15PPM Min ±1.5PPM Min	±0.7PPM Min ±1PPM Min ±0.6 PPM Min					
Freq. stability vs. temperature LX: 0°C to 60°C FZ: -30°C to 70°C	±0.05 PPM ±0.1 PPM (Standard, contact factory for diffe	±0.002 PPM ±0.005 PPM erent temp ranges and stabilities)					
Freq. stability vs. supply changes	±0.005 PPM Max for ±5% Change	±0.002 PPM Max for ±5% Change					
Freq. stability vs. load changes	±0.005 PPM Max for ±5% Change	±0.001 PPM Max for ±5% Change					
Long term stability (Aging)	± 1.5 PPM Max for 10 Years ± 0.3 PPM Max for 1 Years ±0.002 PPM/Day Max.	±0.6 PPM Max for 10 Years ±0.05 PPM Max for 1 Years ±0.0005 PPM/Day Max.					
Output	HCMOS/TTL/Sine 0 to +13dBm						
Harmonics, Sub Harmonics	-30dBc(Sine Output)						
Spurious	-75dBc(Sine Output)						
Duty cycle	40/60% to 60/40%(HCMOS)						
Rise / fall time	10nS Max. (HCMOS,10%~90%Vout, 90%~10%Vout)						
Short term Stability (10MHz)	1 E-10 /Sec	5 E-11 /Sec					
Phase Noise typical under	Offset Phase Noise	Offset Phase Noise					
static conditions	10Hz -95 dBc/Hz	10Hz -115 dBc/Hz					
(Sine Output 10MHZ)	100Hz -125 dBc/Hz 1000Hz -135 dBc/Hz 10000Hz -150 dBc/Hz	100Hz -135 dBc/Hz 1000Hz -145 dBc/Hz 10000Hz -150 dBc/Hz					

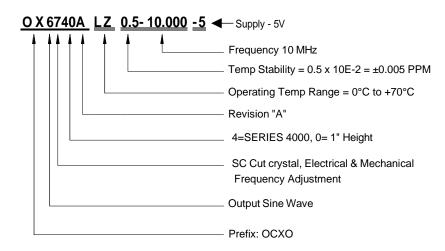
Note: All Typical parameters for a 10MHz output and 5V Supply, for different frequencies consult factory



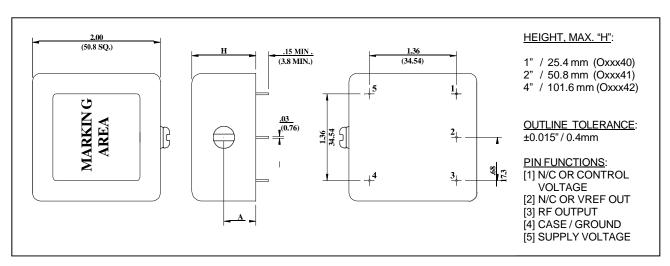
HOW TO ORDER (PART NUMBER)

Prefix	Output Type	Control Voltage	Series	Revision	Temperature Range	Stability	Frequency	Supply Voltage
OX	4:LVCMOS 6:SINE	1: No Control Voltage 5: Control Voltage	4X:4000 40: Height= 1"/25.4mm 41: Height= 2"/50.8mm 42: Height= 4"/101.6mm 44~49: Odd Height	A	First letter Lowest Temperature, Second letter Highest Temperature: From A=-55°C to Z=+70°C, Then: 1=+75°C, 2=+80°C, 3=+85°C in 5°C steps Example: LZ: +0°C to +70°C LX: +0°C to +60°C FZ: -30°C to +70°C D3: -40°C to +85°C	Value x 10E-2 in ppm Example 28=0.28 ppm 10=0.1 ppm	In MHZ	5: 5V 12; 12V 15; 15V

Example:



MECHANICAL SPECIFICATION



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