A RAMI TECHNOLOGY Company

OCXO

OCXO SERIES 9400

FEATURES

Excellent frequency stability
High Frequency up to 100MHz
Low Profile

APPLICATIONS

- TELECOM
- BASE STATION
- INSTRUMENTATION

ELECTRICAL PERFORMANCE

PARAMETER	OCXO SERIES 9400	
	AT CUT CRYSTAL	SC CUT CRYSTAL
Supply voltage, nom.	12V, 5V,3.3V ±5% Standard	
Power dissipation steady state	2 Watt Max.	
Heat up power	5 Watt Max.	
Heat up time.	5 min Max	
Frequency range	10 To 100MHz Standard	
Frequency Adjustment: Electrical (0 to 5V) Electrical (0 to 10V)	 ±10PPM Min ±15PPM Min	 ±0.7PPM Min ±1PPM Min
Freq. stability vs. temperature LX: 0°C to 60°C FZ: -30°C to 70°C	 ±0.05 PPM ±0.15 PPM	 ±0.010 PPM ±0.020 PPM
	(Standard, contact factory for different temp ranges and stabilities)	
Freq. stability vs. supply changes	±0.01 PPM Max for ±5% Change	±0.005 PPM Max for ±5% Change
Freq. stability vs. load changes	±0.005 PPM Max for ±5% Change	±0.002 PPM Max for ±5% Change
Long term stability (Aging)	± 0.5 PPM Max for 1 Years ±0.005 PPM/Day Max.	±0.1 PPM Max for 1 Years ±0.002 PPM/Day Max.
Output	HCMOS/TTL/Sine 0 to +10dBm	
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 static conditions (Sine Output 10MHZ)	Offset Phase Noise 10Hz -95 dBc/Hz 100Hz -125 dBc/Hz 1000Hz -135 dBc/Hz 10000Hz -150 dBc/Hz	Offset Phase Noise 10Hz -115 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

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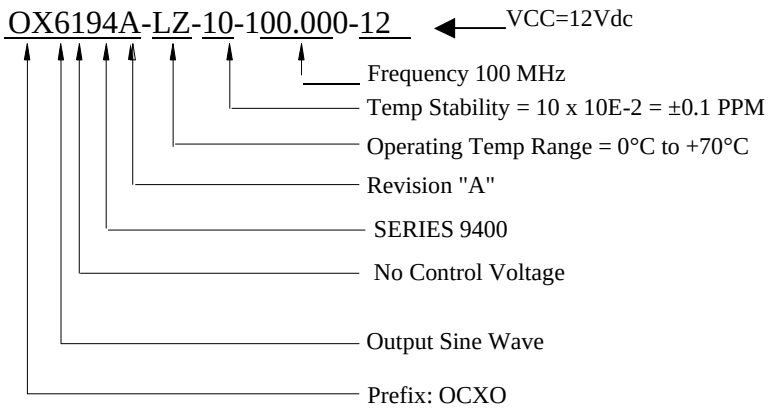
PART NUMBERING SYSTEM

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	94: 9400	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	3.3: 3.3V 5: 5.0V 12: 12V

Example:



MECHANICAL SPECIFICATION