

OCXO SERIES 9400

■ FEATURES

Excellent frequency stability
High Frequency up to 100MHz
Low Profile

APPLICATIONS

- TELECOM
- BASE STATION
- INSTRUMENTATION

■ ELECTRICAL PERFORMANCE

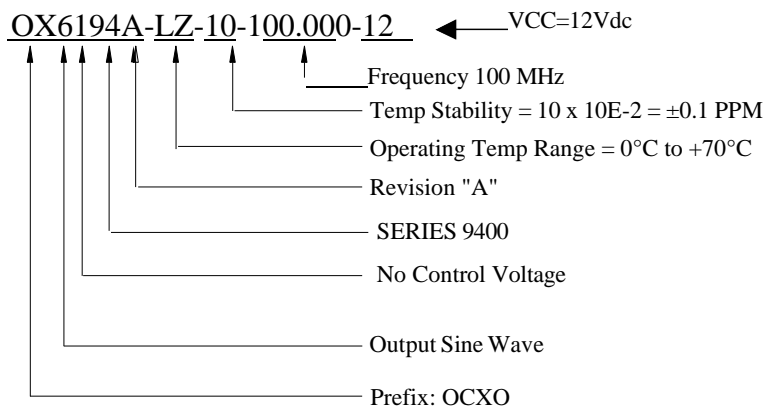
PARAMETER	OCXO SERIES 9400	
	AT CUT CRYSTAL	SC CUT CRYSTAL
Supply voltage, nom.	12V, 5V, 3.3V ±5% Standard	
Power dissipation steady state	2 Watt Max.	
Heat up power	5 Watt Max.	
Heat up time.	5 min Max	
Frequency range	10 To 100MHz Standard	
Frequency Adjustment: Electrical (0 to 5V) Electrical (0 to 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

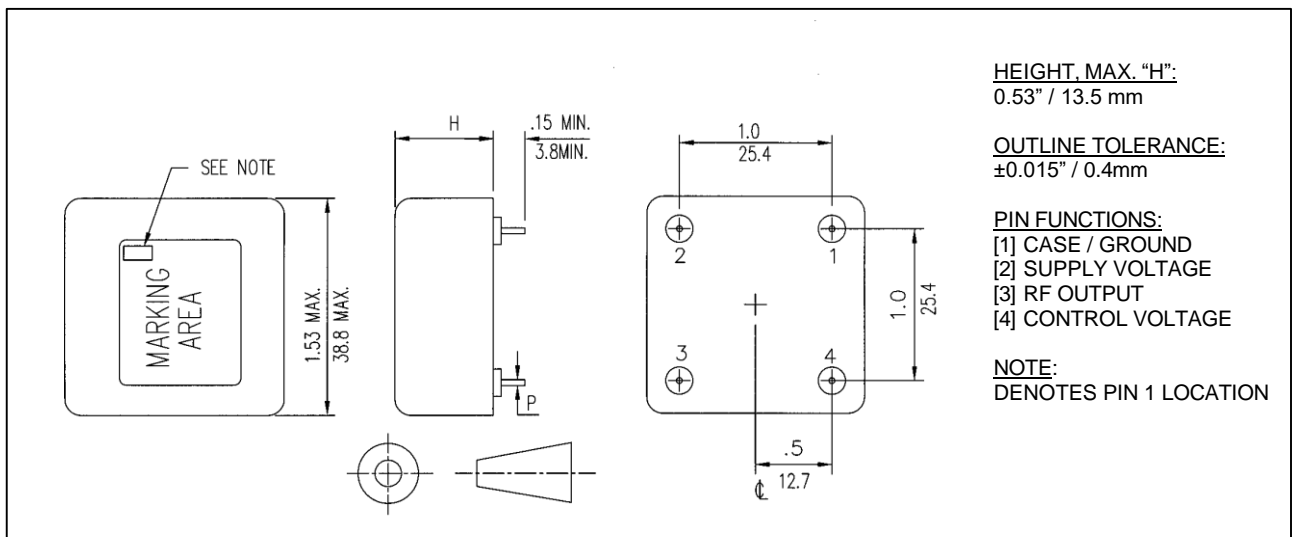
■ PART NUMBERING SYSTEM

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



Raltron Electronics/RAMI Technology USA, LLC, including its affiliates, employees, agents and other persons acting on its behalf (collectively Raltron/RAMI Tech), disclaim any and all liability for any errors or inaccuracies contained in this data sheet. While Raltron/RAMI Tech has made every reasonable effort to ensure the accuracy of all product information, specifications and data contained herein, Raltron/RAMI Tech does not guarantee that the information is accurate, reliable or current. The product information is provided for reference purposes only and is subject to change, correction or revision, at any time without notice. Raltron/RAMI Tech does not assume any liability arising out of an application or use of any product described herein and disclaims any warranties expressed or implied. The user of products in such applications shall assume all risks of such use and will agree to hold Raltron/RAMI Tech, harmless against all damages.