Oven Controlled Crystal Oscillator

OCXO C14 Series

Features

- Good frequency stability
- Low phase noise
- RoHS Compliant / Pb Free

Specifications

Frequency Range	1.000 Mhz to 100.000Mhz	
Operating Temperature Range	0℃ to +50℃ ~ -40℃ to +75℃	
Storage Temperature Range	- 40℃ to +100℃ typical	
Frequency Stability vs. Temperature Range	±0.1ppm Max. (at center Control Voltage)	
	±0.05ppm (0℃ to +50℃)	
	± 0.2ppm (-20℃ to +70℃)	
	± 0.5ppm (-40℃ to +75℃)	
Supply Voltage	5.0V or 3.3V ±10%	
Current Consumption	20mA	
Aging	±0.05ppm, 10 years ±3ppm	
vs Load Change of ± 10%	±0.05ppm Max.	
vs Supply Voltage Change of ±5%	±0.05ppm Max.	
Supply Consumption	1.5W Max. When warm-up;0.5W Max. when	
Output Waveform	Clipped Sine	TTL/HCMOS
Output load	10KΩ/10pF	10TTL/15pF
Output Level/Voltage	>1Vpp	VoH:2.4V/90%V
		VoL :0.4V/10%V
Current	20mA	
Rise/Fall Time	6nS Max.	
Symmetry	40/60% or 45/55%	
Warm-up Time	±0.1ppm , < 1Min.	
Adjustable Frequency Range	±7.0ppm	
Control Voltage Range	0-5V	
Slope	Positive	
Linearity	±10%	
Phase Noise	at 10Hz, -100 dBc/Hz; at 100Hz, -120dBc/Hz	
	at 1KHz, -135dBc/Hz; at 10Khz -145dBc/Hz	

MSC

Oven Controlled Crystal Oscillator

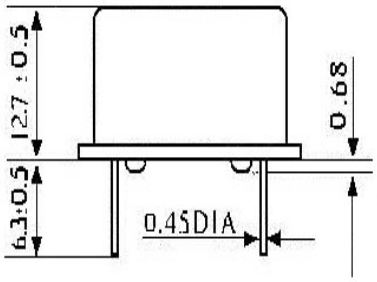
OCXO C14 Series

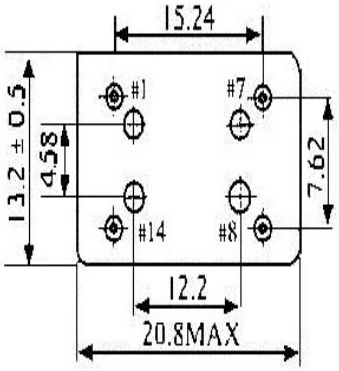
How to order

C14 — 25M — 2 — C — 0

Series	Frequency	Input Voltage	Output code	requency Stability VS. Temp. Rang
C14	20= 20Mhz	5 = 5.0V	T =TTL/HCMOS	0 = ±0.5ppm (0 ~ +50℃)
C20	25= 25Mhz	3 = 3.3V	S = Sine Wave	1 = ±1.0ppm (-10 ~ +60℃)
C25	30= 30Mhz	2 = 2.8V	C= Clipped Sine	2 = ±1.5ppm (-20 ~ +70℃)
C36	40 = 40Mhz			3 = ±2.0ppm (-40 ~ +85℃)
C38				

Dimensions (mm)





• Pin Configuration

#1	Vcontrol
#7	Ground
#8	Output
#14	V_{DD}