

Oven Controlled Crystal Oscillator

OCXO C38 Series

Features

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



Specifications

Frequency	1.000Mhz ~ 100.000Mhz	
Operating Temperature Range	0°C to +50°C ~ -40°C to +75°C	
Storage Temperature Range	- 40°C to +100°C	
Frequency	±0.5ppm Max. (at Center Control Voltage)	
vs. Temperature range	AT:±0.01ppm (0 to +50°C)	SC:±0.002ppm (0 to +50°C)
	AT:±0.03ppm (-20 to +70°C)	SC:±0.01ppm (-20 to +70°C)
	AT:±0.05ppm (-40 to +75°C)	SC:±0.01ppm (-40 to +75°C)
Supply Voltage	5.0V or 12V ±10%	
Aging	AT:±0.001ppm/Day, first year ±0.1ppm, 10 years ±1ppm SC:±0.001ppm/Day, first year ±0.1ppm, 10 years ±1ppm	
vs. Load Change of ±10%	±0.02ppm Max.	
vs. Supply Voltage Change of ±5%	±0.02ppm Max.	
Supply Consumption	3.6W Max. When warm-up; 1.2W Max. When static	
Output	Waveform	Clipped Sine
	Load	10KΩ/10pF
	Level / Voltage	>1Vpp
		TTL/HCMOS
		10TTL/15pF
		VoH: 2.4V / 90%V VoL: 0.4V / 10%V
Current	20mA	
Symmetry	40/60% or 45/55%	
Rise/Fall Time	6nS Max.	
Warm-up Time	AT:±0.1ppm,<1Min.	SC:±0.03ppm,<1Min.
Adjustable Frequency Range	AT:±7.0ppm	SC:±1.0ppm
Control Voltage Range	0-5V	
Slope	Positive	
Linearity	±10%	
Phase Noise	at 1Hz, -80dBc/Hz; at 100Hz, -120dBc/Hz at 1KHz, -145dBc/Hz; at 10Khz -150dBc/Hz	

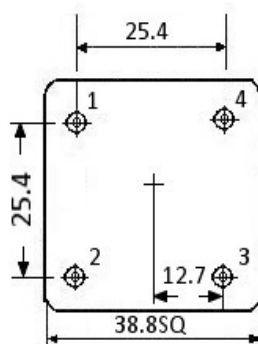
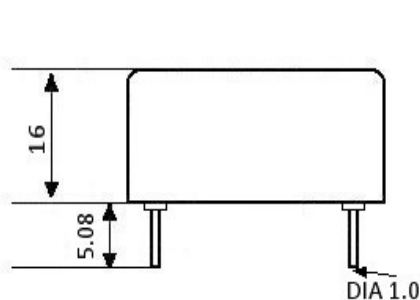
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How to order

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

Dimensions (mm)



• Pin Configuration

#1	Ground
#2	V _{DD}
#3	Output
#4	V _{control}