

Temperature Compensated Crystal Oscillator

TCXO TC14 Series

Features

- Good Frequency Stability
- Low Phase Noise
- RoHS Compliant / Pb Free



Specifications

Frequency Range	1.000 Mhz to 40.000Mhz		
Frequency Stability vs. Temperature	±0.5ppm (0 to +50℃)		
	±1.0ppm (-10 to +60℃)		
	±1.5ppm (-20 to +70℃)		
	±2.0ppm (-40 to +85℃)		
Aging	±1.0ppm Max.		
vs Load Change of ±10%	±0.2ppm Max.		
vs Supply Voltage Change of	±0.2ppm Max		
Operating Temperature	0℃ to +50℃ ~ -40℃ to +85℃		
Storage Temperature Range	- 40℃ to +100℃		
Supply Voltage	5.0V±5% or 3.0V ±10%		
Output	Waveform	Clipping Sine	TTL/HCMOS Sine Wave
	Load	10KΩ/10pF	10TTL/15pF 50KΩ
	Level/Voltage	>1Vpp	VoH:2.4V/90%V >2dB
Current		Vo1:0.4V/10%V	Harmonic Supperssion:>25dB
		10mA or 20mA	Noise Suppression:>75dB
Rise/Fall Time	6nS Max		
Symmetry	40/60% or 45/55%		
Phase Noise	at 10Hz, - 70dBc/Hz		
	at 100Hz, - 100dBc/Hz		
	at 1KHz, - 130dBc/Hz		
	at 10KHz, - 140dBc/Hz		
	at 100KHz, - 145dBc/Hz		

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How to order

TC14	27.12M	5	T	1
Series	Frequency	Input Voltage	Output code	Frequency Stability VS. Temperature Range
TC14	20= 20Mhz	5 = 5V	T =TTL/HCMOS	0 = $\pm 0.5\text{ppm}$ (0 ~ +50°C)
TC18	25= 25Mhz	3 = 3.3V	S = Sine Wave	1 = $\pm 1.0\text{ppm}$ (-10 ~ +60°C)
	30= 30Mhz			2 = $\pm 1.5\text{ppm}$ (-20 ~ +70°C)
	40= 40Mhz			3 = $\pm 2.0\text{ppm}$ (-40 ~ +85°C)

Dimensions (mm)

