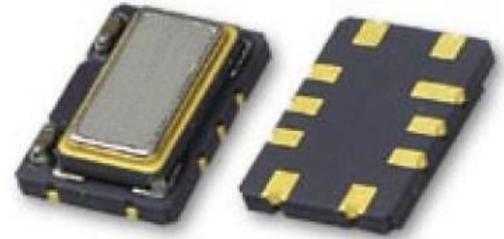


Features

Frequency 19.200000 MHz
 7mm x 5mm x 1.85mm ceramic SMD
 +/- 4.6 ppm total stability over 20 years
 Clipped sine wave
 Tri-state Enable / Disable Function
 +/- 0.50 ppm from -40 to +85 centigrade degree

Picture of Part



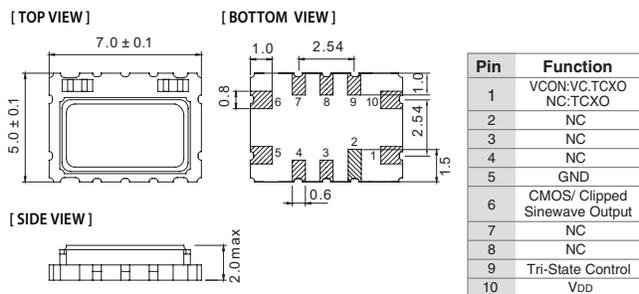
Typical Applications

Base stations
 10 G-bit ethernet
 SONET
 GSM,CDMA, 3G, and 4G cellular

Description

The TCXO3404 family offers low noise compensation techniques combined with aggressive conditioning processes resulting in outstanding long term stability, tightly distributed performance parameters, and superior long term reliability.

Physical Dimensions and Pin Connections



Specifications

TCXO Specification	Sym.	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency Range	f_0			19.200000		MHz	
Clipped Sine-wave ONLY	Level	L	0.8			pk-pk	
	Load Resistance	RL		10		Kohm	
	Load Capacitance	CL		10		pF	
Power supply							
Voltage	Vcc		3.135	3.300	3.465	V	
Current consumption	Icc				3.5	mA	clipped sine wave
Frequency control*							
Control voltage range	Vc		N/A				
Tuning range			N/A				
Vc Input Impedance			N/A				
Frequency stability							
vs. temperature		-40 °C to +85 °C, ref = see below	-0.500		+0.500	ppm	See note below
vs. 5% change in supply voltage			-0.300		+0.300	ppm	
Tolerance at 25C			-1.000		+1.000	ppm	Frequency 1 hr after reflow
SSB Phase noise @ 19.2 MHz Clipped sine typical		100 Hz			-120	dBc/Hz	
		1000 Hz			-140		
		10 kHz			-148		
	Tri-state Enable / Disable	Output OFF			0.3Vcc		
		Output ON	0.7Vcc				
Total Tolerance	Over 20 years	Projected after 30 days operation	-4.600		+4.600	ppm	
Environmental, mechanical conditions.							
Operating temperature range	-40 °C to +85 °C maximum range available that is standard						
Storage temperature range	-55 °C to +125 °C						
Frequency Stability Reference	+/- 0.500 ppm over temperature is with respect to : $F_{max} + F_{min} / 2$						
	All frequencies at different operating temperatures are compared to the midpoint between the maximum and						
	Minimum frequencies recorded over the entire operating temperature range.						