Features

Frequency 16.368000 MHz 5 mm x 3.2 mm x 1.65 mm ceramic SMD +/- 2.5 ppm total aging over 20 years Clipped sine wave +/- 0.5 ppm from -30C to 70C

Picture of Part



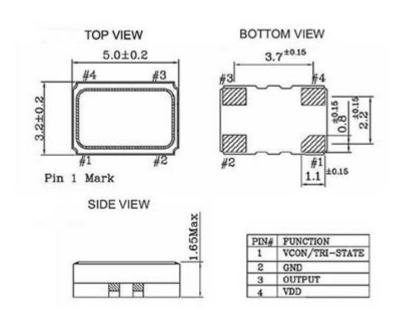
Typical Applications

Femtocells, GPS Receivers Mobile Radio System Clocks for wide range of applications

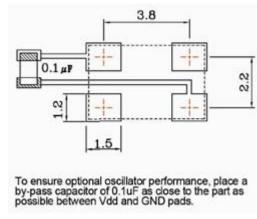
Description

The TCXO5300THP family offers low noise compensation techniques combined with aggressive conditioning processes resulting in outstanding long term frequency stability, tightly distributed performance parameters, and superior long term reliability.

Mechanical Drawing and PIN Connections



Solder Pad Layout (mm)



Specification

TCXO		Crima	Condition Value			Unit	Note	
Specification		Sym.	Condition	Min.	Typ.	Max.	Ullit	Note
Operational Frequency Range		f_0		IVIIII.	16.368000	Iviax.	MHz	
Operational Frequency Kange		10			10.306000		MITIZ	
	Level	L		0.8			pk-pk	
Clipped	Load Resistance	RL		0.0	10		Kohm	
Sine-wave					_			
	Load Capacitance	CL			10		pF	
Power supp	ly							
Voltage		Vcc		3.135	3.300	3.465	V	
Current con	umntion							
Current consumption		Icc				3.5	mA	clipped sine wave
Frequency of	ontrol*				<u> </u>	Į	ļ.	
					1.5	2.5	17	
Control voltage range		Vc		0.5	1.5	2.5	V	Positive tuning slope
Tuning range				+/- 5.0			ppm	
Vc Input Impedance				100			Kohm	
Frequency s	tability				<u> </u>	Į	ļ.	
vs. temperature			-30°C to +70°C, ref 25°C	-0.500		+0.500	ppm	
vs. 5% change in supply voltage			ref Vcc typ.	-0.100		+0.100	ppm	
Tolerance at 25C			31	-2.000		+2.000	ppm	Frequency 1 hr after reflow
			100 Hz		-125	-122	rr	
SSB Phase noise @16.368 MHz clipped sine			100 Hz 1000 Hz		-145	-142	dBc/Hz	
			1000 Hz		-143	-142		
			10 KHZ		-130	-132		
								+
T-4-1	Over 20 years		Projected after	2.500		. 2.500	nnm	
Total Aging	Over 20 years		30 days operation	-2.500	1	+2.500	ppm	1
		• . •	30 days operation					
	ital, mechanical cond	itions.						
Operating temperature range			-30°C to +70°C					
Storage temperature range			-55°C to +125°C					
Mechanical shock			1500G; half sine; 0.5 ms; each AXIS for three times					
Vibration			10 to 2000 Hz; 1.52mm; 20G; each axis for 4 hrs					
v ibiation			10 2000 112 , 1.32mm , 200 , Cath axis 101 4 ms					

Ordering information

TCXO5300THP-16.368MHz