Features

Frequency : 16.368000 MHz
5 mm x 3.2 mm x 1.20 mm ceramic SMD
+/- 0.5 ppm from -30C to 70C
clipped sine wave
2.8V to 3.3V supply range

Picture of Part

Typical Applications

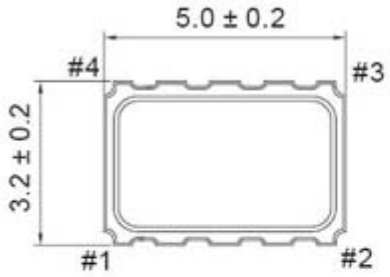
Specially Designed for GPS Receiver Module

Description

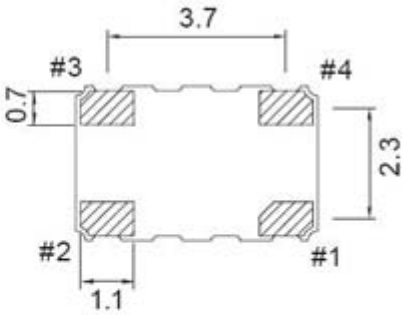
The TCXO5300TV family offers low noise compensation techniques combined with aggressive conditioning processes resulting in superior long term reliability based on many years in production.

Mechanical Drawing and PIN Connections

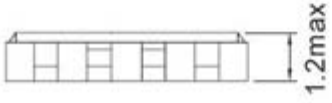
[TOP VIEW]



[BOTTOM VIEW]



[SIDE VIEW]



Pad	Function
#1	VCON:VCTCXO GND / NC:TCXO
#2	GND
#3	Output
#4	V_{DD}

Specification

TCXO Specification		Sym.	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
Operational Frequency Range		f_0			16.368000		MHz	
Clipped Sine-wave	Level	L		0.8			pk-pk	
	Load Resistance	RL			10		Kohm	
	Load Capacitance	CL			10		pF	
Power supply								
Voltage		Vcc		2.660	2.800	2.940	V	
Current consumption		Icc				2.0	mA	clipped sine wave
Frequency control*								
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 stability								
vs. temperature			-30°C to +70°C, ref 25°C	-0.500		+0.500	ppm	
vs. 5% change in supply voltage			ref Vcc typ.	-0.200		+0.200	ppm	
Tolerance at 25C				-2.000		+2.000	ppm	Frequency 1 hr after reflow
SSB Phase noise @16.368 MHz clipped sine			100 Hz		-118	-115	dBc/Hz	
			1000 Hz		-138	-135		
			10 kHz		-151	-148		
Total Aging	Per Year		Projected after 30 days operation	-1.000		+1.000	ppm	
Environmental, mechanical conditions.								
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					

Ordering inlormation

TCXO5300TV-16.368MHz