Dynamic Engineers Inc.
2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA
TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

TCXO5300BM-14.85MHz-A-V
5.0 x 3.2 mm 14.85MHz SMD TCXO

Features and Benefits

Frequency range: 14.85MHz
Supply voltage: 3.3V
Steady current: 1.5mA Max
Output waveform: Clipped sinewave
Frequency stability vs. operating temperature: ±2.5ppm
Phase noise@10KHz: -148dBc/Hz
Operating temperature: -20°C--+70°C
Size: 5x3.2x1.1mm

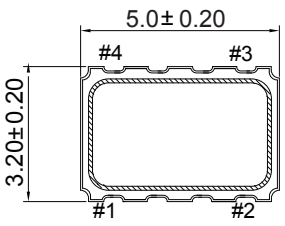
Typical Applications

WLAN
Telecommunication
Mobile Application

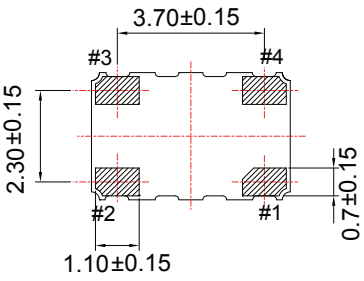
Mechanical Drawing & Pin Connections

Drawing No: MD220020-1

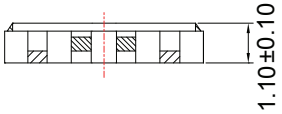
Top View



Bottom View



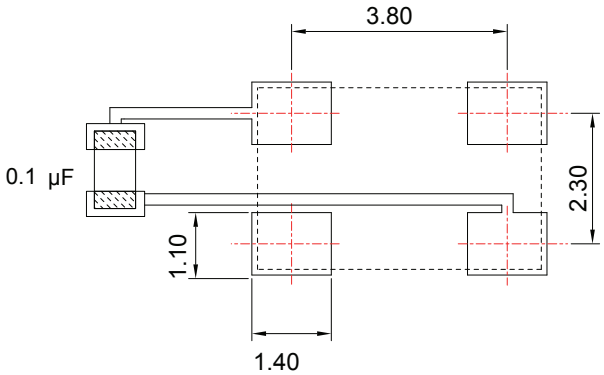
Side View



Pin#	Function
1	Vcon
2	GND
3	Output
4	Vcc

Unit in mm
1mm = 0.0394 inches

Recommended Soldering Pattern



To ensure optimal oscillator performance, place a by-pass capacitor of 0.1uF as close to the part as possible between Vcc and GND PAD

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Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	f_0			14.85		MHz	
RF Output							
Output Waveform				Clipped sinewave			
Output Level			0.8			Vp-p	
Output Load				10Kohm//10pF			
Power Supply							
Voltage	V_{cc}	±5%		5.0		V	
Current					1.5	mA	
Startup Time					2.0	mSec	
Frequency Control							
Control Voltage Range			0.5		2.5	V	
Pulling Range			±5.0			ppm	
Vc Input Impedance			500			kohm	
Frequency Stability							
Vs. Temperature		-20°C to +70°C			±2.5	ppm	
Vs. Supply Voltage		±5%			±0.2	ppm	
Vs. Load		±10%			±0.2	ppm	
Vs. Aging		1st year			±1.0	ppm	
Tolerance					±2.0	ppm	
Phase noise		@100Hz		-115		dBc/Hz	
		@1KHz		-135		dBc/Hz	
		@10KHz		-148		dBc/Hz	
Environmental Conditions							
Operating temperature range		-40°C to +85°C					