Dynamic Engineers Inc.
Website: www.DynamicEngineers.com
Email: Inquiry@DynamicEngineers.com

TCXO5300BM-26MHz-A-V
High Precision 26MHz TCXO_Temperature Compensated Crystal Oscillator

Features and Benefits

Frequency range: 26MHz
Supply voltage: 3.3V
Steady current: 4mA Max
Output waveform: Clipped Sinewave
Frequency stability vs. operating temperature: ±0.5PPM
Operating temperature: -40°C to +85°C
Size: 5.0x3.2x1.85mm
Package type: SMD

Typical Applications

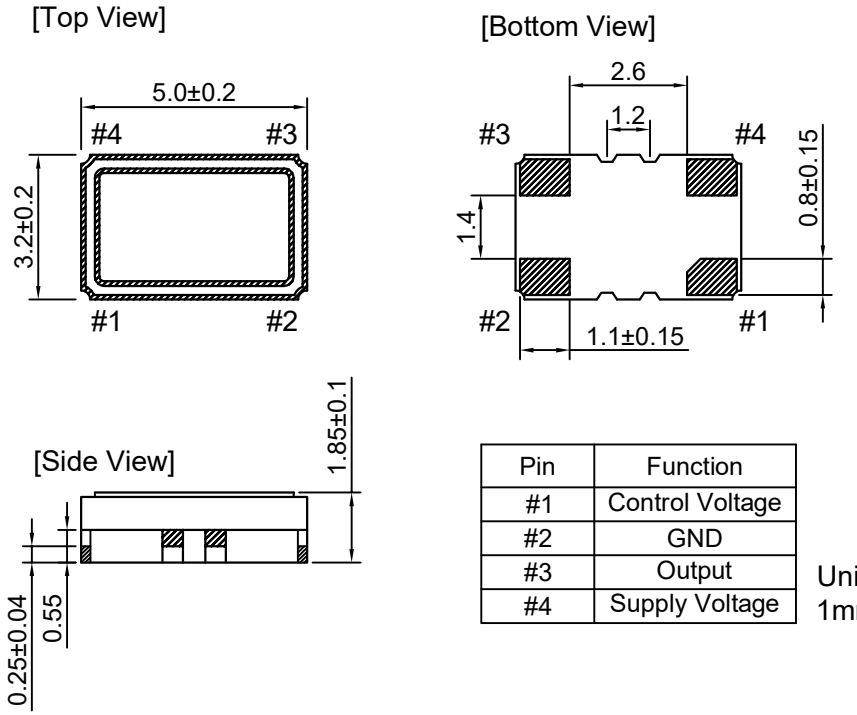
Stratum 3
Femtocell
Base Stations

Description

TCXO5300BM-26MHz-A-V is the high precision TCXO. The frequency stability can be less than ±0.5PPM. It can be widely used in the portable communication device.

Mechanical Drawing & Pin Connections

Drawing No: MD250014-1



Pin	Function
#1	Control Voltage
#2	GND
#3	Output
#4	Supply Voltage

Unit in mm
1mm = 0.039inches

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	f_0			26		MHz	
RF Output							
Output Waveform		DC Coupled clipped sine wave		Clipped sinewave			
Output Level			0.8			Vp-p	
Output Load				10Kohm//10pF			
Power Supply							
Voltage	V_{cc}		2.97	3.3	3.63	V	
Current		At maximum supply voltage			4	mA	
Startup Time					10	mSec	
Frequency Control							
Control Voltage Range	Vc		0.5	1.5	2.5	V	
Pulling Range		Referenced to Vc at 1.5V	±5			ppm	
Linearity					10	%	
Frequency Stability							
Vs. Temperature		Ref to 25°C			±0.5	ppm	
Vs. Supply Voltage		±5%, @25°C			±0.2	ppm	
Vs. Load		±10%			±0.2	ppm	
Aging		1st year, @25°C			±1	ppm	
Tolerance		@25°C, before reflow			±0.5	ppm	
Environmental Conditions							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-55°C to +125°C					
Thermal Shock		MIL-STD-883H,1010.8 Condition B. -55°C, 125°C; soak time is 10 mins, with total 200 cycles					
Damp Heat		JESD22-A101. 85°C /85% RH for 500 hrs					
Low Temp Storage		IEC 60068-2-1. -55°C for 500 hrs					
Drop Test		IEC 60068-2-32. 70, 80, 100cm,each height for 3 times on hardboard					
Mechanical Shock		MIL-STD-883H,2002.5 Condition B. 1500g, half-sine, 0.5ms, each axis for 3 times.					
Vibration Test		MIL-STD-883H,2007.3 Condition A. 10~2000Hz, 1.52mm, 20g, each axis for 4 hrs					