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

TCXO5300BM-STR3-40MHz-A
5.0 x 3.2 mm SMD TCXO

Features and Benefits

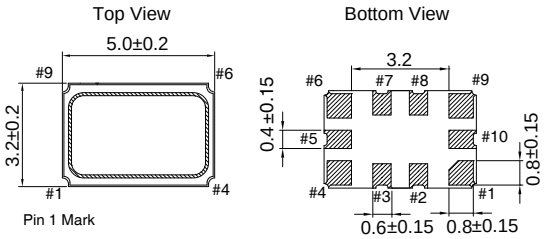
Frequency range: 40MHz
Supply voltage: 3.3V
Steady current: 3.5mA Max
Output waveform: Clipped sinewave
Frequency stability vs. operating temperature: ±0.28ppm
Phase noise@10KHz: -150dBc/Hz
Operating temperature: -40°C~+85°C
Size: 5x3.2x1.85mm

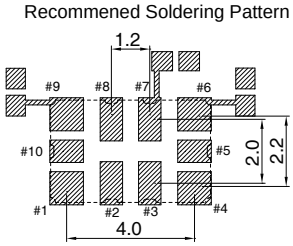
Typical Applications

Stratum 3- Femtocell
Base Stations

Mechanical Drawing & Pin Connections

Drawing No: **MD190037-1**





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

PIN#	FUNCTION
1	NC
2	NC
3	NC
4	GND
5	NC/Tri-state
6	Fout
7	VC Filter
8	NC
9	VDD
10	GND

Unit in mm
1mm = 0.0394 inches

Specifications

Specification	Condition	3.3V		Unit
		Min.	Max.	
Supply Voltage Variation (V_{DD})	V_{DD}±5%	V_{DD}-5%	V_{DD}+5%	V
Frequency Range		40		MHz
Frequency Stability	Overall, 20 Years (Please see below note1)		±4.6	ppm
Frequency Stability Vs Temp. Range	Ref. to (F_{MAX}+F_{min})/2; -40°C--+85°C		±0.28	ppm
Holdover Stability	(Please see below note2)		±0.32	ppm
Supply Current		-	3.5	mA
Output		Clipped Sinewave		
Output Level		0.8	-	Vp-p
Load		10kohm//10pF		
Phase Noise				
100Hz		-120		dBc/Hz
1KHz		-140		
10KHz		-150		
Startup Time		-	5	mSec
Storage Temperature		-55°C--+125°C		

Note1: Including calibration @ 25°C, supply voltage V_{DD}±5% , load ±10%, reflow soldering, 20 years aging and frequency stability over temperature.

Note2: Including 24hours aging, supply voltage V_{DD}±5% and frequency stability over temperature