Features and Benefits

Frequency range: 25MHz Supply voltage: 3.3V Current: 10mA Max.

Frequency stability vs. temperature: ±2.5PPM

Aging: ±1PPM first year

Operating temperature: -40°C to +85°C

Size: 2.5x2.0x0.85 mm

Typical Applications

- RTC Reference Clock
- Smart Grid
- Mobile Phones

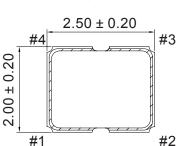
Description

TCXO2520BM-25MHz-A is the small size and low phase noise TCXO. The frequency stability can less than ±2.5PPM. It can be widely used in the portable communication equipment.

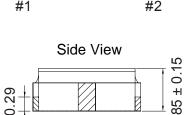
Mechanical Drawing & Pin Connections

Drawing No:

MD220022-2

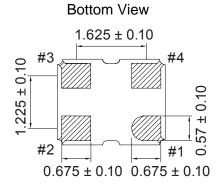


Top View

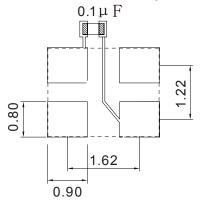


Pin#	Function
1	Tri-state
2	GND
3	Output
4	Vcc

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

TCXO2520BM-25MHz-A 2.5 x 2.0mm SMD TCXO

Specifications

Oscillator	Oscillator Specification Sym	Condition	Value			Unit	Note
Specification			Min.	Тур.	Max.		
Operational Frequency	f_0			25		MHz	
RF Output							
Output Waveform				CMOS			
Output Level High			2.97			V	
Output Level Low					0.33	V	
Duty Cycle			45		55	%	
Rise & Fall Time		measured between 10% and 90% of V _{cc}			8	ns	
Startup Time					5	ms	
Tri-State		Enable (High voltage or floating)	2.31			V	
(Input to Pin1)		Disable (Low voltage or GND)			0.99	V	
Power Supply							
Voltage	Vcc		3.135	3.3	3.465	V	
Current					10	mA	
Frequency Stability							
Vs. Temperature		-40°C to +85°C			±2.5	ppm	
Aging@+25°C		1 st year			±1.0	ppm	
		@10Hz		-83		dBc/Hz	
		@100Hz		-110		dBc/Hz	
Phase Noise		@1KHz		-135		dBc/Hz	
		@10KHz		-148		dBc/Hz	
		@100KHz		-152		dBc/Hz	
Environmental Conditio	ns						
Operating temperature ra	nge	-40°C to +85°C					
Storage temperature range	ge	-55°C to +125 °C					