

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

Features

Frequency 10 MHz
7mm x 5mm x 1.85mm ceramic SMD
Compact and lightweight
Low power consumption
Low cost | excellent stability

Typical Applications

Femtocell base stations Wireless Communications WLAN | WiMAX | WIFI

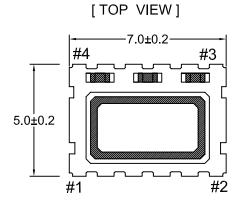
Description

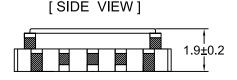
The TCXO3403 family offers low noise compensation techniques combined with high volume manufacturing processes resulting in low cost , tightly distributed performance parameters, and very good overall long term frequency stability and reliability.

Mechanical Drawing and PIN Connections

Drawing No:

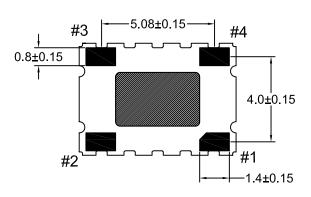
MD130008-2



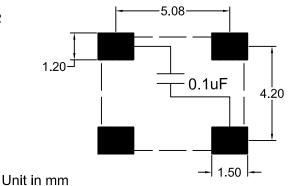


PIN	FUNCTION			
#1	Vcon: VC-TCXO			
	GND/NC: TCXO			
#2	GND			
#3	OUTPUT			
#4	VDD			

[BOTTOM VIEW]



Recommended Soldering Pattern



1mm = 0.0394 inches



Dynamic Engineers Inc.

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TCXO3403-10.000MHz-A High volume High Performance TCXO

Specifications

TCXO Specification		Sym.	Condition	Value			Unit	Note	
				Min.	Typ.	Max.			
Operational Frequency Range		f_0			10.000000		MHz		
Clipped	Level	L		0.8			Vpk-pk		
Sine-wave	Load Resistance	RL			10		Kohm		
Option	Load Capacitance	CL			10		pF		
	-				1	I	_		
Power supp	lv	<u> </u>		1			ļ	l	
Voltage		Vcc		3.135	3.300	3.465	V		
		Icc				2.5	mA		
Current consumption		icc				2.3	IIIA		
Frequency	control*								
Control voltage range		Vc		0.5	1.65	3.3	V	Positive tuning slope	
Tuning range				+/- 8			ppm		
Vc Input Impedance						500	Kohm		
Frequency		Į.		ı	1	Į.	Į.		
vs. temperature			-40°C to +85°C, ref 25°C	-0.5		+0.5	ppm		
vs. 5% change in supply voltage			ref Vcc typ.	-0.200		+0.200	ppm		
Tolerance at 25C				-1.0		+1.0	ppm	Frequency 1 hr after reflow	
			10 Hz						
SSB Phase noise			100 Hz		-115				
			1 kHz 10 kHz		-135 -140		dBc/Hz		
			100 kHz		-140				
			100 kHz		-143			4	
	Per Year		Projected yearly aging after	-1.0		+1.0	ppm		
Aging			30 days operation	110		12.0	p p	1	
Environmen	ntal, mechanical cond	litions.		1	ı	ı	ı		
Operating temperature range			-40°C to +85°C maximum range available that is standard						
Storage temperature range			-55°C to +125°C						
Mechanical	shock								
Vibration									
Soldering									