

Dynamic Engineers Inc.

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

Features and Benefits

500MHz sine wave output Less than +/-0.5ppm from -20°C to +70°C 3.3V supply voltage, 50mA power consumption

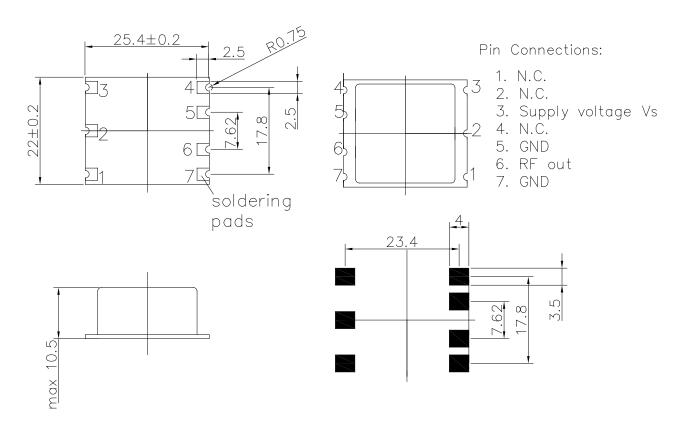
Typical Applications

Clock Reference

Mechanical Drawing & Pin Connections

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Drawing No: MD150088-1



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Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and graphs without notification to potential customers who may have earlier revisions in their possession.



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Specifications

TCXO Specification		Sym	Condition	Value			11	N
				Min.	Тур.	Max.	Unit	Note
Operational Frequency Range		Fnom			500		MHz	
Sine wave	Level			0	+3	+6	dBm	
	Load				50		Ohm	
	Start-up time					10	ms	
	Harmonics					50	dBc	
	Subharmonics					50	dBc	
Power S	upply							
Voltage		V _{cc}		3.15	3.30	3.45	V	
Current Consumption						50	mA	
Frequen	cy Stability							
Vs. Temperature			-20°C to 70°C	-0.5		+0.5	ppm	
			-40°C to 85°C	-1.0		+1.0	ppm	
Tolerance at 25°C				-0.4		+0.4	ppm	
Vs. Supply Voltage			5% change in supply voltage	-0.1		+0.1	ppm	
Vs. Load			10% load change	-0.1		+0.1	ppm	
Total Frequency Stability:			including frequency stability vs. temperature, vs. load changes ±10%, vs. supply voltage changes ±5% and 15 years aging @ +40 °C)	-4.6		+4.6	ppm	
First Year Aging				-1.00		+1.00	ppm	
15 Year Aging				-2.5		+2.5	ppm	
			10 Hz		-62.0	-56.0		
Phase Noise			100 Hz		-103.0	-97.0		
Flidseli	10156		1000 Hz		-130.0	-125.0	dBc/Hz	
			10 KHz		-145.0	-140.0		
			100 KHz		-150.0	-145.0		
Environ	mental Conditions							
Operating Temperature Range -40°C to 85°C								
Storage -	Temperature Range	-45°C t	o 90°C					