

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

Features and Benefits

40MHz custom frequency
3.2 mm x 2.5 mm ceramic SMD package
Tolerance: ±1 ppm accuracy before customer reflow
0.5 ppm frequency stability (over -40°C to +85°C)
1.8V supply with clipped sine wave output
2.5mA low power consumption
Low height and light weight

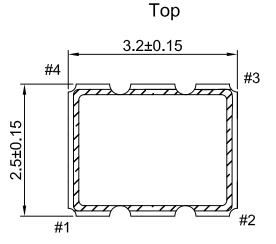
Typical Applications

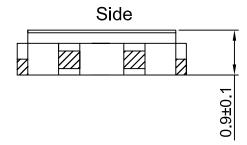
WIFI/WIMAX, WLAN GPS Mobile phone Smart grid

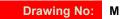
Description

TCXO3225S-40MHz-A offers superior frequency stability and low power consumption with the latest low noise integrated circuit topologies in a low height package, which is suitable for various wireless communication, GPS, smart grid and mobile applications.

Mechanical Drawing & Pin Connections

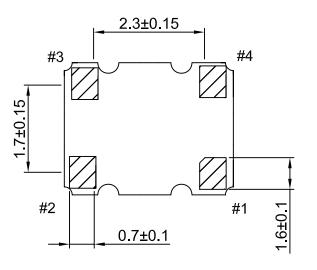






MD160035-1

Bottom



Pin Connection

PIN	Connection			
Pin 1	N.C			
Pin 2	GND			
Pin 3	OUTPUT			
Pin 4	VDD			

Unit in mm 1mm = 0.0394 inches



Dynamic Engineers Inc.

TCXO3225S-40MHz-A Ô|ā]] ^åÁÙā ^ÁY æç^Á €T P: Á∕ÔÝUÁ

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Specifications

Oscillator	Sym	Condition		Value			Note
Specification			Min.	Тур.	Max.	Unit	Note
Nominal Frequency	Fo			40		MHz	
Output Waveform			Clipped Sine Wave				
Output Level			0.8			Vp-p	
Output Load				10 10		kΩ 10pF	
Duty Cycle			45		55	%	
Rise / Fall Time					8	ns	
Start Time					2	msec	
Power Supply							
Supply Voltage	V_{DD}	±5%	1.71	1.80	1.89	V	
Supply Current		$9.5 \le F_0 \le 60MHz$			2.5	mA	
Frequency Stability							
Frequency Tolerance		before customer reflow	-1		+1	ppm	
Additional shift after 2 reflows			-1		+1	ppm	
Frequency Stability				±0.5		ppm	
Aging		at +25°C 1 st year			±1	ppm	
RMS Phase Jitter		Integrated 12 KHz – 20 MHz)			1	psec	
Phase Noise		@ 1 KHz		-132	dDa / H=		
		@ 10KHz		-149		dBc / Hz	
Environmental Conditions		Reference Standards	Test Co	ndition			
Operating Temperature Range		-40°C to +85°C					
Storage Temperature Range			-40°C to	+85°C			