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

TCXO1496BJ-200MHz-A-V
High stability Low Phase Noise 200MHz TCXO

Features and Benefits

Frequency range:200MHz
Supply voltage: 3.3V
Steady current: 40mA Max
Output waveform: Sinewave
Frequency stability vs. operating temperature: ±0.28ppm
Aging: ±3.0ppm/10 Years
Phase noise@10KHz: -147dBc/Hz
Operating temperature: -20°C --+70°C
Size: 14.5x9.6x6.5 mm

Typical Applications

Test & Measurement Equipment
Satellite Communication Systems
Medical Equipment
Radar Systems
Military Radio Equipment
Mobile Radio Systems

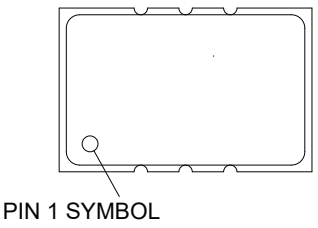
Description

TCXO1496BJ-200MHz-A-V offers wide temperature operation from -20°C to +70°C with outstanding frequency stability and low phase noise performance.

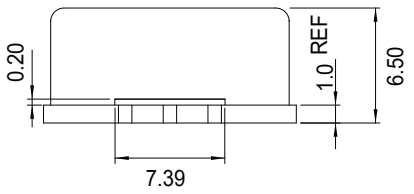
Mechanical Drawing & Pin Connections

Drawing No: **MD230043-1**

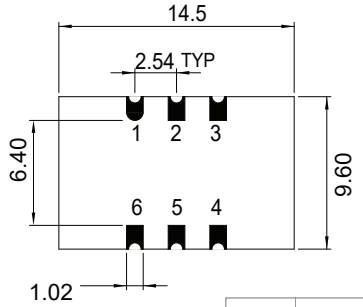
Top View



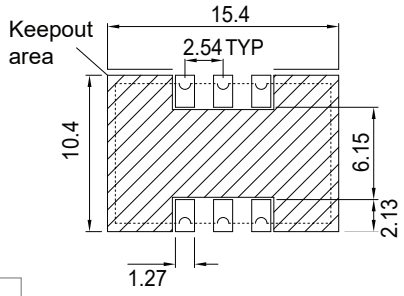
Side View



Bottom View



Recommended Soldering Layout



Pin	Function
1	Vc
2	NC
3	GND
4	Output
5	NC
6	Vcc

Unit in mm
1mm = 0.0394 inches

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Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F_{nom}			200		MHz	
Output				Sinewave			
Output level			+10			dBm	
Harmonics					-30	dBc	
Output load				50		ohm	
Power Supply							
Voltage	V_{cc}	±5%		3.3		V	
Current Consumption					40	mA	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)			±5			ppm	
EFC voltage	V_c		0		3.3	V	
EFC Slope				positive			
EFC linearity				10		%	
Frequency Stability							
Versus temperature					±0.28	ppm	
Overall frequency stability for Stratum 3(±0.28ppm): include initial tolerance, frequency stability Vs temperature, Vs voltage change, Vs Load change and 10 years aging)					±4.6	ppm	
Initial tolerance					±1.0	ppm	
Versus ±5% change in supply voltage					±0.1	ppm	
Versus ±10% change in load					±0.1	ppm	
Aging 10 years					±3.0	ppm	
Phase noise		10Hz		-75		dBc/Hz	
		100Hz		-107			
		1KHz		-135			
		10KHz		-147			
		100KHz		-151			
Environmental Conditions							
Operating temperature range	-20°C to +70°C						
Storage temperature range	-55°C to +125°C						