Low Phase Noise 60MHz TCXO

Features and Benefits

Frequency range: 60MHz Supply voltage: 5.0V Steady current: 45mA Max

Output waveform: HCMOS

Frequency stability vs. operating temperature: ±1.0ppm

Aging: ±1.0ppm per year

Phase noise@1KHz: -135dBc/Hz Operating temperature: -40°C to +70°C

Size: 14.6x9.4x6.0mm

Typical Applications

Synthesizer **Base Station** Instrumentations SDH/SONET

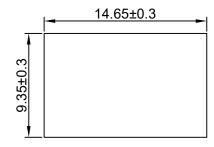
Description

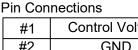
TCXO914CE-LN-60MHz-241122 offers wide temperature operation from -40°C to +70°C with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

Drawing No:

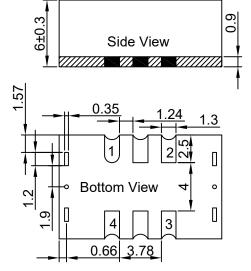
MD230039-1



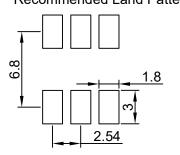


Control Voltage #2 GND Output #3 #4 Vcc

Unit in mm 1mm = 0.0394 inches



Recommended Land Pattern





Dynamic Engineers Inc.

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Specifications

Oscillator Specification	Sym Condition	Value			Unit	Note	
		Condition	Min.	Тур.	Max.	Ullit	Note
Operational Frequency	F _{nom}			60		MHz	
Output			HCMOS				
Output High Level	V _{OH}		2.4			V	
Output Low Level	V_{OL}				0.4	V	
Duty Cycle		(V _{OH} -V _{OL})/2	45		55	%	
Rise/Fall Time					6	ns	
Output load					15	pF	
Power Supply							
Voltage	V _{cc}	±5%		5.0		V	
Current with output					45	mA	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)			±5.0			ppm	
EFC voltage	V _c		0.5	1.5	2.5	V	
Tuning Slope				Positive	•		
Linearity					10	%	
Frequency Stability							
Vs temperature		-40°C to +70°C			±1.0	ppm	
Vs supply voltage changes		±5%			±0.1	ppm	
Vs load changes		±5%			±0.2	ppm	
Initial Tolerance		At shipment, nominal EFC @25°C			±1.0	ppm	
First Year Aging					±1.0	ppm	
Phase noise		1KHz		-135		dBc/Hz	@25°C
Environmental Conditions							
Operating temperature range	-40°C to +70°C						
Temperature Stress Test	IEC60068, GJB360B						
Mechanical Stress Test	IEC60068, GJB360B						
EMC Test (ESD)	IEC61000, JESD22						
Solder Ability	EIA/JESD22-B102-C						
Contact Pads	Gold over Nickel						
RoHS	RHOS Directive 2011/65/EU Annex II Recasting 2002/95/EC						