OCXO2215LS1

SMD OCXO with Sine Wave Output

Features and Benefits

Wide operating temperature range from -55°C to +85°C SMD sine wave output High frequency stability Low phase noise

Typical Applications

Base Station Synchronization Satellite Modem

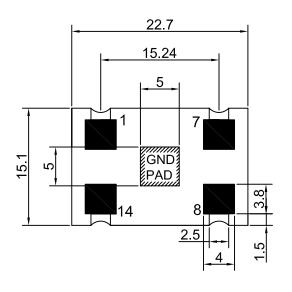
Description

OCXO2215LS series offers wide temperature operation from -55°C to +85°C with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

Drawing No:

MD170016-1





No pcbtrack beneath this area

Pin Connections

Pin	Symbol	Function		
1	Vc	Control Voltage(EFC)		
7	GND	Ground		
8	RF Out	RF Output		
14	Vs	Supply Voltage		

Unit: mm

1mm=0.0394inch

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OCXO2215LS1 SMD OCXO with Sine Wave Output

Specifications

Oscillator	Sy	0 1141		Value			
Specification	m	Condition	Min.	Тур.	Max.	Unit	Note
Frequency Range	F_{nom}		10		125	MHz	
Standard Frequencies				10/20/80/10	0	MHz	
RF Output							
Output Wave Form :				Sine wave			
Load	R_L			50		Ohm	±10%
Output Level			+3			dBm	
Harmonics					-25	dBc	
Warm-up time		$_{\triangle}f_{final}/f_{0}<\pm0.1$ ppm			2	min	
Power Supply							
Supply Voltage	Vs		3.15	3.3	3.45	V	
		Steady state			300	mA	@ +25°C
Current Consumption		Warm-up			700	mA	
Frequency Control							
Electronic Frequency			±2		±5	ppm	AT-Cut
Control(EFC)			±1			ppm	SC-Cut
EFC Voltage	V_{c}		0.15	1.65	3.15	V	
EFC Slope (△f/△Vc)				positive			
EFC input impedance			100			kOhm	
Frequency Stability							
Initial Tolerance @+25°C		V _c @ Centre value			±500	ppb	
Va Tomporatura		From -55°C to +85°C			.10	nnh	Optional: ±5ppb
Vs. Temperature		Steady state			±10	ppb	@-40°C to+85°C
Vs. Supply Voltage Variation		Vs±5%			±10	ppb	Pushing
Vs. load change		R _L +/-10%			±20	ppb	Pulling
Aging Per Day		after 30days of			±10	ppb	AT-Cut
Aging Fer Day		operation			±2	ppb	SC-Cut
Aging 1 st Year		after 30days of		±300	±500	ppb	AT-Cut
		operation		±100	±200	ppb	SC-Cut
Phase Noise				Consult o	ur sales		
Temperature Range			1				
Operating Temperature			-55°C to +85°C				
Storage Temperature	-55°C to +125°C						
Environmental Condition							
Test	IEC 60679-1 Clause		MIL-PRF-55310D Clause				
Sealing Tests	5.6.2		3.6.1.2				
Solderability Resistance to	5.6.3		3.6.52				
Soldering Heat			3.6.48				
Shock	5.6.8		3.6.40				
Vibration, Sinusoidal	5.6.7.1		3.6.38.1				
, , , , , , , , , , , , , , , , , , , ,			3.6.38.2				
Vibration, Random	5.6.7.3		3.6.38.3 3.6.38.4				
Endurance tests - ageing	5.7.1		4.8.35				
- extended aging	5.7.2						