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

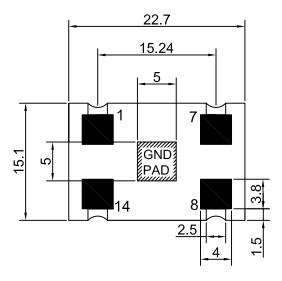
Description

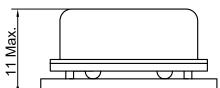
OCXO2215LS series offers wide temperature operation from -55°C to +85°C with outstanding frequency stability and low phase noise performance.

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

Dynamic Engineers Inc.

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OCXO2215LS2 SMD OCXO with Sine Wave Output

Specifications

Oscillator	Sy	.		Value			
Specification	m	Condition	Min.	Тур.	Max.	Unit	Note
Frequency Range	F_{nom}		10	7.	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		$_{\triangle}f_{\text{final}}/f_{0} < \pm 0.1 \text{ppm}$			2	min	
Power Supply		_ IIIIai 0					
Supply Voltage	Vs		4.75	5.0	5.25	V	
	- 5	Steady state		0.0	200	mA	@ +25°C
Current Consumption		Warm-up			500	mA	0 120 0
Frequency Control							
Electronic Frequency			±2		±5	ppm	AT-Cut
Control(EFC)			±1			ppm	SC-Cut
EFC Voltage	V _c		0.25	2.5	4.75	V	0000.
EFC Slope (△f/△Vc)	• 6		0.20	positive			
EFC input impedance			100	poolaro		kOhm	
Frequency Stability			100			KOTIITI	
Initial Tolerance @+25°C	T	V _c @ Centre value			±500	ppb	
		From -55°C to +85°C					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
		after 30days of			±10	ppb	AT-Cut
Aging Per Day		operation			±2	ppb	SC-Cut
		after 30days of		±300	±500	ppb	AT-Cut
Aging 1 st Year		operation		±100	±200	ppb	SC-Cut
Phase Noise		, , , , , , , , , , , , , , , , , , ,		Consult o		1 1 1 -	
Temperature Range							
Operating Temperature			-55°C to	+85°C			
Storage Temperature				+125°C			
Environmental Condition							
Test	IEC (60679-1 Clause	MIL-PR	F-55310D C	lause		
Sealing Tests	ling Tests 5.6.2		3.6.1.2				
Solderability Resistance to			3.6.52				
Soldering Heat	5.6.3	•	3.6.48				
Shock 5.6.8			3.6.40				
Vibration Sinuscidal	5.6.7.1		3.6.38.1				
Vibration, Sinusoidal	5.6.7	.1	3.6.38.2	2			
Vibration Bandom	5.6.7.3		3.6.38.3				
Vibration, Random	5.6.7	.ບ 	3.6.38.4	<u> </u>			
Endurance tests							
- ageing	5.7.1		4.8.35				
- extended aging	5.7.2						