Features and Benefits

Sine wave output
High stability SMD OCXO
+/-10ppb max from -55°C to +85°C
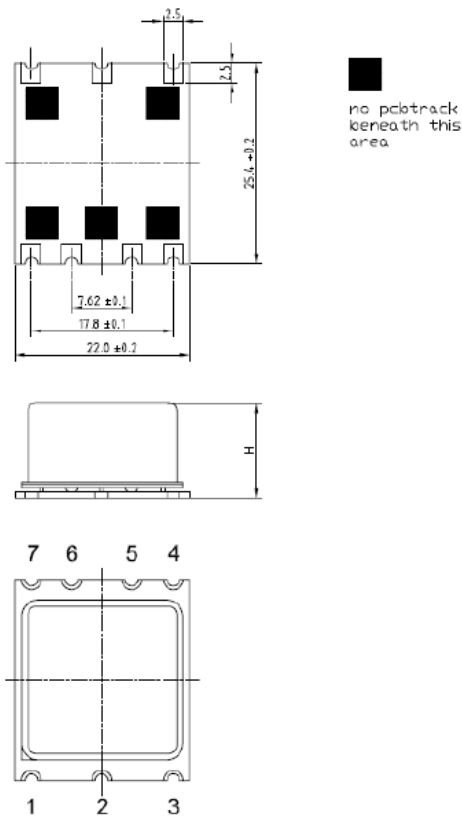25.6x22.2x14mm SMD package

Description

OCXO2523L is High stability with Sine wave Output OCXO

Typical Applications

Ref for Microwave comm.. system
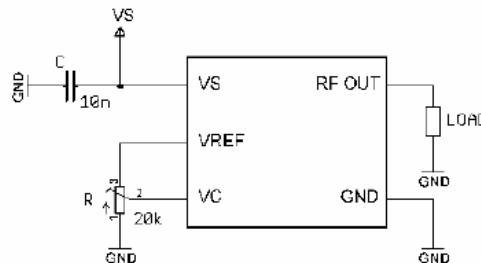Signal Analyzer Reference for internal synthesizers
SATCOM System

Mechanical Drawing & Pin Connections

Drawing No: MD140068-1

Pin connections

Pin #	Symbol	Function
1	V_C	Control Voltage (EFC)
2	VREF	Reference Voltage
3	V_S	Supply Voltage
4	RF OUT	RF Output
5	N.C.	No Connection
6	N.C.	No Connection
7	GND	Ground

Specifications

OCXO Specification	Sym	Condition	Min.	Typ.	Max.	Unit	Note
Frequency Range	F_0		10		125	MHz	
Standard Frequencies			10.000/20.000/40.000/100.000			MHz	
RF Output							
Output Waveform			Sine wave				
Output Level			+3			dBm	
Load	R_L	+/-10%		50		Ohm	
Harmonics					-25	dBc	
Power Supply							
Voltage	Vcc		3.15	3.3	3.45	V	Optional
			4.75	5.0	5.25		
			11.4	12.0	12.6		
Current Consumption	I_{Steady}	For Vcc=3.3V @ 25°C			300	mA	Optional
		For Vcc=5.0V @ 25°C			200		
		For Vcc=12.0V @ 25°C			100		
Current Consumption	$I_{Warm-up}$	For Vcc=3.3V			800	mA	Optional
		For Vcc=5.0V			600		
		For Vcc=12.0V			300		
Warm-up Time		$\triangle F_{final}/f_0 < +/-0.1ppm$ @ 25°C		3	5	min	
Frequency Control*							
Electronic Frequency Control(EFC)		For AT-Cut	+/-2		+/-5	ppm	Optional
		For SC-Cut	+/-0.8				
Reference Voltage	V_{REF}	For Vcc=3.3V		3.0		V	
		For Vcc=5.0V		4.0		V	
		For Vcc=12.0V		5.0		V	
EFC Voltage	Vc		0	$V_{REF}/2$	V_{REF}	V	
EFC Input Impedance			100			Kohm	
EFC Slope	$\triangle f/Vc$		Positive				
Frequency Stability							
Initial Tolerance		Vc @ $V_{REF}/2$ @ 25°C			+/-300	ppb	
Vs. Operating Temperature Range					+/-10	ppb	For more information, Please consult sale
Vs. Supply Voltage Variation(Pushing)		Vcc+/-5%			+/-10	ppb	
Vs. Load Change(Pulling)		Load+/-10%			+/-10	ppb	
Aging — Long Term Per Day (After 30 Days Operation)		For AT-Cut			+/-10	ppb	
		For SC-Cut			+/-2		
Aging — Long Term 1st Year (After 30 Days Operation)		For AT-Cut		+/-300	+/-500	ppb	
		For SC-Cut		+/-50	+/-200		
Phase Noise							
Consult Sale							
Environmental							
Operating Temperature Range		-55°C to +85°C					
Storage Temperature Range		-55°C to +125°C					
Packing		Tape & Reel					
Size		25.6x22.2x14mm max,					
Weight		15g max					