Features and Benefits

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

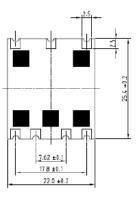
Description

OCXO2523L is High stability with Sine wave Output OCXO

Typical Applications

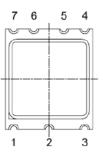
Ref for Microwave comm.. system Signal Analyzer Reference for internal synthesizers SATCOM System

Mechanical Drawing & Pin Connections





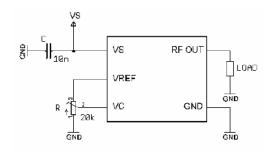




Drawing No: MD140068-1

Pin connections

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



Specifications

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Optional Optional			
Standard Frequencies	Optional			
RF Output Sine wave dBm Output Level +3 dBm Load R _L +/-10% 50 Ohm Harmonics -25 dBc Power Supply Voltage Vcc 3.15 3.3 3.45 V Current Consumption Isteady For Vcc=3.3V 300 11.4 12.0 12.6 1	Optional			
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 Current Consumption For Vcc=3.3V 300 300 MA 0 Current Consumption Isteady For Vcc=5.0V 200 mA 0 Current Consumption Iwarm-up For Vcc=12.0V 800 mA 0 Current Consumption Iwarm-up For Vcc=5.0V 600 mA 0 Warm-up Time △Friesal/fo ⟨+/-0.1ppm 3 5 min Frequency Control* For AT-Cut +/-2 +/-5 ppm 0	Optional			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Optional			
Output Level +3 dBm Load R _L +/-10% 50 Ohm Harmonics -25 dBc Power Supply Voltage Vcc 3.15 3.3 3.45 V Voltage Vcc 4.75 5.0 5.25 V C For Vcc=3.3V 300 300 To Vcc=3.3V 300 To Vcc=5.0V 300 To Vcc=12.0V 100 To Vcc=12.0V 100 To Vcc=3.3V To Vcc=5.0V 600 mA C To Vcc=12.0V 300 To Vcc=12.0V 300 To Vcc=12.0V 300 To Vcc=12.0V 300 To Vcc=12.0V To Vcc=12.0V 300 To Vcc=12.0V To Vcc=12.0V 300 To Vcc=12.0V	Optional			
Harmonics	Optional			
Power Supply 3.15 3.3 3.45 V C Voltage 4.75 5.0 5.25 V C Eor Vcc=3.3V @ 25°C 300 300 mA C For Vcc=5.0V @ 25°C 200 mA C For Vcc=12.0V @ 25°C 100 mA C Current Consumption I _{Warm-up} For Vcc=3.3V For Vcc=3.3V For Vcc=5.0V For Vcc=12.0V 800 600 For Vcc=12.0V 300 mA C Warm-up Time △F _{f-inst} /f₀ ⟨+/-0.1ppm @ 25°C 3 5 min Frequency Control* For AT-Cut +/-2 +/-5 ppm C Electronic Frequency Control(EFC) For AT-Cut +/-0.8 +/-0.8 ppm C	Optional			
Voltage Vcc 3.15 (4.75) (5.0) (5.25) (5.25) V C Current Consumption Isteady For Vcc=3.3V (2.5°C) (2.00) (2.5°C) 300 mA mA Current Consumption Isteady For Vcc=5.0V (2.25°C) (2.00) (2.25°C) (2.00) (2.25°C) 100 mA 0 Current Consumption Iwarm-up For Vcc=3.3V (2.00) (2.00) (2.00) (3.00) (Optional			
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	Optional			
	Optional			
	Optional			
Column Control* Column Column				
Frequency Control* For AT-Cut +/-2 +/-5 ppm Control (EFC)				
Electronic Frequency Control(EFC) For AT-Cut				
For SC-Cut +/-0.8				
	Optional			
Reference Voltage V _{REF} 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 +/-300 ppb				
@ 25°C				
I Vs. ()nerating Lemperature Range I I I I I I I I I I I I I I I I I I I	ore information,			
Flease	e consult sale			
Vs. Supply Voltage Variation(Pushing) Vcc+/-5% +/-10 ppb				
Vs. Load Change(Pulling) Load+/-10% +/-10 ppb Long Term Per Day For AT-Cut +/-10 ppb				
(After 30 Days Operation) For SC-Cut +/-2				
Aging (After 30 Days Operation) For SC-Cut +/-300 +/-500	-			
(After 30 Days Operation) For SC-Cut +/-50 +/-200 ppb				
Phase Noise				
Consult Sale				
Environmental				
Operating Temperature Range -55°C to +85°C	-55°C to +85°C			
Storage Temperature Range -55°C to +125°C				
Packing Tape & Reel	Tape & Reel			
Size 25.6x22.2x14mm max,				
Weight 15g max				