

OCXO2728L
High stability SMD OCXO with Sine wave Output

Features and Benefits

Sine wave output
High stability SMD OCXO
+/-200ppb max from -55°C to +85°C
27.8x27.8x15.5mm SMD package

Description

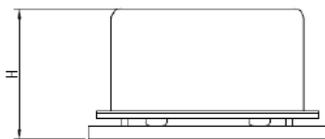
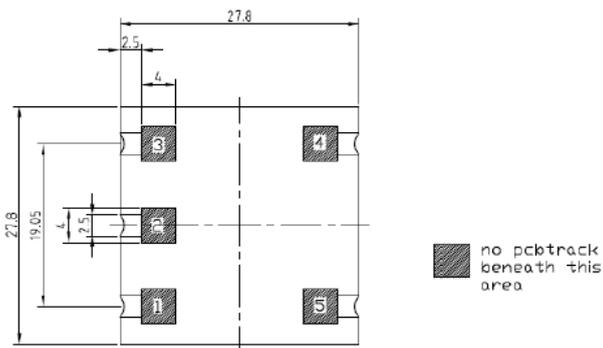
OCXO2728L is High stability with Sine wave Output OCXO

Typical Applications

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

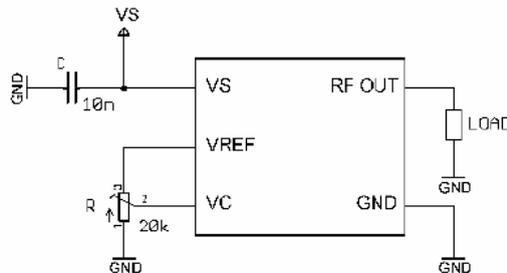
Mechanical Drawing & Pin Connections

Drawing No: MD140067-1



Pin connections

Pin #	Symbol	Function
1	RF OUT	RF Output
2	GND	Ground
3	V _C	Control Voltage (EFC)
4	VREF	Reference voltage
5	V _S	Supply Voltage



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Specifications

OCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F_0		5		150	MHz	
Standard Frequencies			10.000/100.000/125.000			MHz	
RF Output							
Output Waveform			Sine wave				
Load	R_L	+/-5%		50		Ohm	
Output Level			+7			dBm	
Harmonics					-30	dBc	
Spurious					-90	dBc	
Power Supply							
Voltage	V_{CC}		4.75 11.4	5.0 12.0	5.25 12.6	V	Optional
Current Consumption	I_{Steady}	For $V_{CC}=5.0V$ @ 25°C For $V_{CC}=12.0V$ @ 25°C			250 150	mA	Optional
Current Consumption	$I_{Warm-up}$	For $V_{CC}=5.0V$ For $V_{CC}=12.0V$			600 350	mA	Optional
Warm-up Time		$\Delta F_{final}/f_0 < +/-0.1ppm$ @ 25°C		3	5	min	
Frequency Control*							
Electronic Frequency Control(EFC)		For AT-Cut For SC-Cut	+/-2 +/-0.8		+/-5	ppm	Optional
Reference Voltage	V_{REF}	5MHz ~ 150MHz <=40MHz >40MHz		4.0 5.0 10.0		V V V	Optional
EFC Voltage	V_C		0	$V_{REF}/2$	V_{REF}	V	
EFC Input Impedance			100			Kohm	
EFC Slope	$\Delta f/V_C$		Positive				
Frequency Stability							
Initial Tolerance		$V_C @ V_{REF}/2$ @ 25°C			+/-300	ppb	
Vs. Operating Temperature Range					+/-200	ppb	For more information, Please consult sale
Vs. Supply Voltage Variation(Pushing)		$V_{CC} +/- 5%$			+/-10	ppb	
Vs. Load Change(Pulling)		Load +/-5%			+/-5	ppb	
Aging	Long Term Per Day (After 30 Days Operation)	For AT-Cut For SC-Cut			+/-10 +/-2	ppb	
	Long Term 1 st Year (After 30 Days Operation)	For AT-Cut For SC-Cut		+/-300 +/-50	+/-500 +/-200	ppb	
Phase Noise							
Consult Sale							
Environmental							
Operating Temperature Range	-55°C to +85°C						
Storage Temperature Range	-55°C to +125°C						
Packing	Palette						
Size	27.8x27.8x15.5mm max,						
Weight	20g max						