Features and Benefits

Frequency 12.8MHz +/-10ppb Max. from -20°C to +70°C 400mA max. warm-up current 1.3W max. steady state

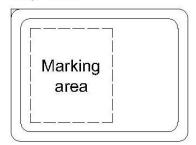
Description

12.8MHz OCXO, +12V supply voltage, +/-10ppb Max. from -20°C to +70°C

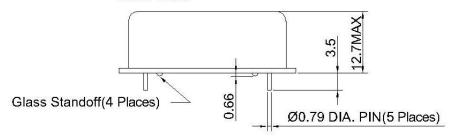
Mechanical Drawing & Pin Connections

Drawing No: MD140061-1

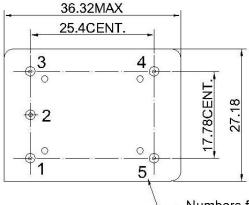




Side View



Bottom View



Pin Connections:

Pin	Function Vco Input or Not Connected Reference Voltage or Not Connected					
1						
2						
3	+VDC					
4	R,F. Output					
5	0 Volts & Case					

Unit: mm

Numbers for Reference only. (No stamped on Unit)

Specification

OCXO Specification		0	On a Relian	Value			11-2		
		Sym	Condition	Min.	Тур.	Max.	Unit	Note	
Frequency Range		F ₀			12.800000		MHz		
RF Output									
Output waveform					Rectangular				
Level					HCMOS				
"1" level				+2.6			V		
"0" level	"0" level					+0.4	V		
Load					15		pF		
Spurious						-60	dBc		
Duty Cycle			@+1.65V	40	50	60	%		
Rise/Fall Time			10% to 90%			5	ns		
Power Supply	y				_	<u>, </u>			
Voltage		Vcc		11.400	12.000	12.6000	V		
Current Consumption			Warm-up			400	mA		
	<u> </u>		Steady-state@+25°C			1.3	W		
Frequency Co	ontrol*		11000001		1	T	ı		
Frequency Adjust Range			VCO@ 0V	-0.8		-0.4	ppm	Tuning Slope: Positive	
			VCO@ 5V	+0.4	.0.5	+0.8		9	
Control Voltage				0	+2.5	+5	V %		
Linearity				-10 100		+10			
Internal resistance Frequency Stability				100			Kohm		
Frequency 3	ability					ı		<=90 days follow date	
Initial Tolerance @+25°C			@+25°C+/-1°C After turn on power 15+/-5minutes	-0.1		+0.1	ppm	code VCO input voltage@+2.5+/- 0.001V	
Vs. Operating Temperature Range			-20 °C to +70°C Reference +25°C	-10		+10	ppb		
Vs. Supply Voltage Change			+/-5% change	-1		+1	ppb		
Warm-up			In 5minutes@+25°C +/-1°C	-50		+50	ppb	Reference to 1hour	
Aging	Daily		After 30 days	-0.5		+0.5	ppb		
	Yearly			-50		+50	ppb		
	10 years			-0.3		+0.3	ppm		
Phase noise			10 Hz			-110			
			100 Hz			-125	dBc/Hz		
			1 KHz			-135	ubc/nz		
			10 KHz			-140			
Environmenta	al								
Operating temperature range		-40°C to +85°C							
Storage temperature range		-40°C to +85°C							
Storage temper	Jialai o Taligo								
Storage temporal Vibration Shock	srataro rango		TD-202, Method 202. Test TD-202, Method 213, Test						