Features and Benefits

High stability: ± 1ppb over 0 to+70°C

Low aging rate: ± 0.5 ppb/day, ± 0.05 ppm/year Low Allan variance value – up to $5x10^{-12}/1s$

Typical Applications

Stratum 3E clock systems Cellular Base Stations Instrumentation Microwave applications Radar reference

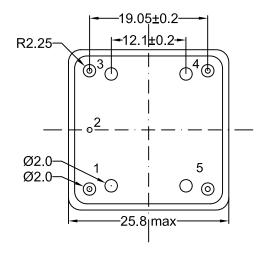
Description

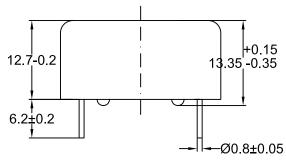
OCXO2525AW-12.8MHz-A-V offers high frequency stability, low long term aging and low phase noise, all in a compact package to suit the different communication needs.

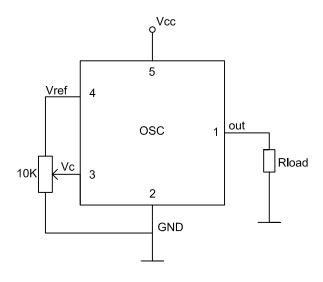
Mechanical Drawing & Pin Connections

Drawing No:

MD1' 00%\$-%







Pin connections:

Pin No.	Pin Function
1	Output
2	GND
3	Control Voltage
4	Reference Voltage
5	Supply Voltage

Unit in mm

1mm = 0.0394 inches

Dynamic Engineers Inc.

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Specifications

Oscillator		0 11/1		Value		11.2	N. 4			
Specification	Sym	Condition	Min.	Typ.	Max.	Unit	Note			
Operational Frequency	F_{nom}			12.8		MHz				
RF Output						•				
Signal Waveform			HCMOS							
Load	RL		10kohm//15pF							
H-Level Voltage	V _H		3.8			V				
L- Level Voltage	VL				0.4	V				
Duty Cycle			45		55	%				
Rise/Fall time					10	ns				
Spurious Level					-100	dBc				
Power Supply										
Reference Voltage VREF Output			4.1	4.2	4.3	V				
Supply Voltage	Vs		4.75	5	5.25	V				
Warm-up Time	T _{up}	At +25°C to			180	S	ref to freq after 15			
	I up	∆ f/f=1e-7			100	5	min of operation			
Power Consumption		Steady state, +25°C		1	1.2	W				
		Warm-up		3.2	3.5	W				
Frequency Adjustment Range										
Electronic Frequency Control (EFC)			±0.5	±1		ppm				
EFC voltage	Vc		0		4.2	V				
EFC Slope			<u> </u>	positive						
Frequency Stability										
Versus Operating Temperature Range				±1		ppb				
Versus supply voltage	Vs	Ref Vcc typ		±1		ppb				
G-Sensitivity		Worst direction	±0.5		±1.0	ppb/G				
Aging Per Day					±0.5	ppb				
		After 30 days of			±0.5	ррь				
Aging 1 st Year		operation			±0.05	ppm				
					10.00					
Allan Variance		1s	5	10		e-12				
SSB Phase noise		1Hz		-95		_				
		10Hz		-125		dBc/Hz				
		100Hz		-140						
		1kHz		-150						
		10kHz		-160						
		100kHz		-163						
Environmental, Mechanical Conditions	000 1- 70	20								
Operating temperature range	0°C to 70									
Storage temperature range		-60°C to 90°C								
Humidity Mechanical shock		Hermetically sealed Per MIL-STD-202,30G half sine pulse,11mS								
		Per MIL-STD-202, 30G hair sine pulse, 11mS Per MIL-STD-202, 10G swept sine 10 to 2000Hz								
Vibration Soldering conditions		der only, not reflow comp			inal					
						al anaugh -	In ting atoms			
Washing conditions	Washing with water or alcohol-based detergent allowed only with final enough drying stage									