



**Features and Benefits**

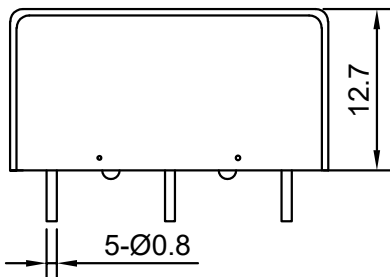
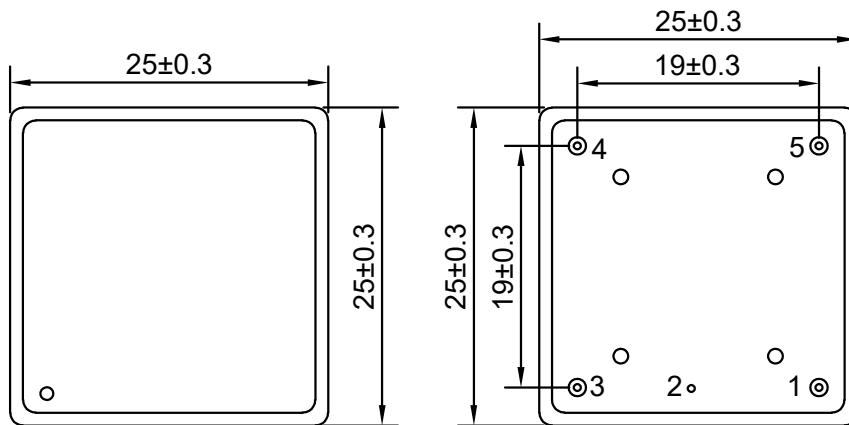
Frequency range: 100 MHz  
Supply voltage: 5V  
Steady current: 200mA/Max  
Output waveform: Sinewave  
Frequency stability vs. operating temperature: ±20ppb  
Aging: ±0.3ppm per year  
Phase noise@100KHz: -160dBc/Hz  
Operating temperature: -40°C to +85°C  
Size:25x25x12.7mm

**Typical Applications**

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

**Mechanical Drawing & Pin Connections**

**Drawing No:** MD& \$\$\*\*!%



PIN Function

Pin	Function
1	R.F. OUTPUT
2	GND
3	Control Votage
4	Reference Voltage
5	Supply Voltage

Unit in mm  
1mm = 0.039 inches



# Dynamic Engineers Inc.

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## OCXO2525CL-100MHz-A-V

100MHz High stability OCXO



Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency	F <sub>nom</sub>			100		MHz	
<b>RF Output</b>							
Signal Waveform			Sinewave				
Load	R <sub>L</sub>		50			ohm	
Output power		@25 ±5 °C	+7			dBm	
Harmonics		@25 ±5 °C			-35	dBc	
Spurious		@25 ±5 °C			-75	dBc	
<b>Power Supply</b>							
Supply Voltage	V <sub>cc</sub>			5		V	
Warm-up Time	T <sub>up</sub>	Δf/f=1e-7			5	min	
Power Consumption		Steady state, @25 ±5 °C, Still Air			200	mA	
		Warm-up, @25±5 °C			600	mA	
<b>Frequency Adjustment Range</b>							
Electronic Frequency Control (EFC)			±0.5			ppm	
EFC voltage	V <sub>c</sub>		0		5	V	
<b>Frequency Stability</b>							
Versus Operating Temperature Range		-40 °C ~+85 °C			±20	ppb	
Initial Tolerance		2.5V±0.2V , 25±5 °C			±0.2	ppm	
Versus supply voltage		±5% change, @25 ±5 °C			±5	ppb	
Versus load		±5% change, @25 ±5 °C			±5	ppb	
Aging Per Day		after 30 days of operation			±3	ppb	
Aging 1 <sup>st</sup> Year					±0.3	ppm	
SSB Phase noise (@25±5 °C)		@10Hz			-90	dBc/Hz	
		@100Hz			-120	dBc/Hz	
		@1KHz			-150	dBc/Hz	
		@10KHz			-155	dBc/Hz	
		@100KHz			-160	dBc/Hz	
<b>Environmental, Mechanical Conditions</b>							
Operation temperature range		-40°C to +85°C					
Storage temperature range		-55°C to +125°C, off working status					