



### Features and Benefits

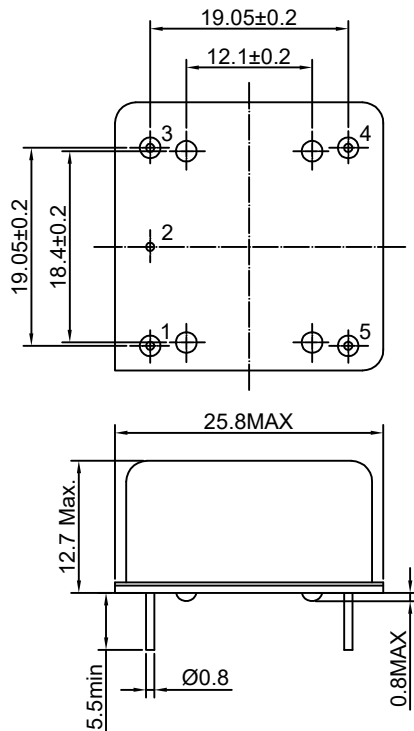
Frequency range: 1090MHz  
Supply voltage: 5.0V  
Current: 60mA Max  
Output waveform: Sinewave  
Frequency stability vs. operating temperature:  $\pm 30$ ppm  
Aging:  $\pm 5$ ppm per year  
Phase noise@10KHz: -142dBc/Hz  
Operating temperature: -40°C to +85°C  
Size: 25.8x25.8x12.7mm

### Typical Applications

Secondary Radar  
IFF  
Air Security

### Mechanical Drawing & Pin Connections

Drawing No: **MD220006-1**



Pin connections

PIN #	Symbol
1	RF OUT
2	GND
3	N.C.
4	N.C.
5	Supply Voltage

Unit in mm  
1mm = 0.0394 inches



## Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency	F <sub>nom</sub>			1090		MHz	
<b>RF Output</b>							
Signal Waveform			Sinewave				
Load				50		ohm	
Output power				+12		dBm	
Harmonics				-40		dBc	
<b>Power Supply</b>							
Supply Voltage	V <sub>cc</sub>			5		V	
Current					60	mA	
<b>Frequency Stability</b>							
Versus Operating Temperature Range					±30	ppm	
Initial Tolerance		+25°C			±10	ppm	
Aging 1 <sup>st</sup> Year					±5	ppm	
SSB Phase noise		@10Hz		-73		dBc/Hz	
		@100Hz		-100		dBc/Hz	
		@1KHz		-122		dBc/Hz	
		@10KHz		-142		dBc/Hz	
		@100KHz		-145		dBc/Hz	
<b>Environmental Conditions</b>							
Size	25.8x25.8x12.7 (mm)						
Operation temperature range	-40°C to +85°C						