

Dynamic Engineers Inc.

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Features and Benefits

Frequency range: 1160MHz

Supply voltage: 5.0V Current: 200mA Max Output waveform: Sinewave

Frequency stability vs. operating temperature: ±1.0ppm

Aging: ±2.0ppm per year

Phase noise@10KHz: -110dBc/Hz
Operating temperature: -40°C to +55°C

Size:25.4x25.4x8.0mm

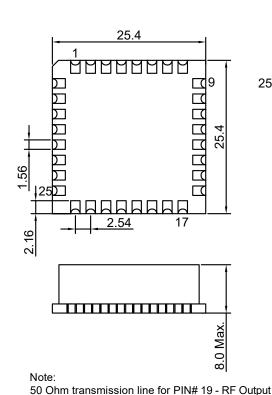
Typical Applications

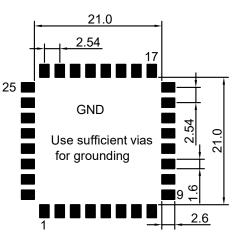
Secondary Radar IFF Air Security

Mechanical Drawing & Pin Connections

Drawing No:

MD22001(-1





Pin connections

PIN#	Function					
1	Lock Detect					
2	N.C.					
19	RF Output					
22	Gate Input or N.C.					
31,32	Supply Voltage					
Others	GND, CASE					

Unit in mm

1mm = 0.0394 inches



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Specifications

Oscillator	Sym	Condition	Value			11.74	
Specification			Min.	Тур.	Max.	Unit	Note
Frequency	F _{nom}			1160		MHz	
RF Output							
Signal Waveform			Sinewave				
Load			50			ohm	
Output level GATE ON			+10		+26	dBm	@V _{GATE} >+3.5V
Output level variation					±2.0	dB	
Output level GATE OFF				-60	-50		@V _{GATE} <+1.5V
Spurious					-80	dBc	
Harmonics					-30	dBc	
Power Supply							
Supply Voltage	V _{cc}		4.75	5.0	5.25	V	
Current (Note 2)					200	mA	
Lock detect output LD (Note 1)			3.0			V	PLL Locked
Gate Function							
Low level input voltage V _{GL}				0	1.5	V	
High level input voltage V _{GH}			3.5	5.0	5.5	V	
Input resistance				10		kohm	
Input capacitance					10	pF	
Turn-on time				35	40	ns	
Turn-off time				25	30	ns	
Frequency Stability							
Versus Operating Temperature Range					±1.0	ppm	
Initial Tolerance		+25°C			±1.0	ppm	
Aging 1 st Year					±2.0	ppm	
		@10KHz		-110		dBc/Hz	
Phase noise		@100KHz		-130		dBc/Hz	
		@1MHz		-150		dBc/Hz	
Environmental Conditions							
Operation temperature range	-40°C to +	55°C					

Note 1: Internal PLL with TCXO reference

Note 2: Current consumption depends on output level