



Features and Benefits

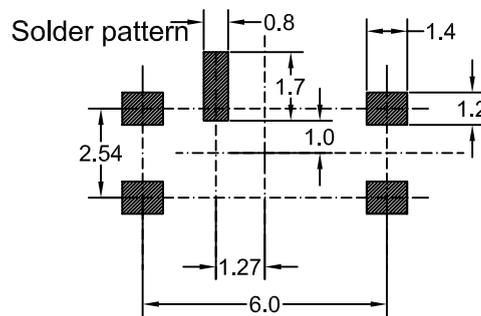
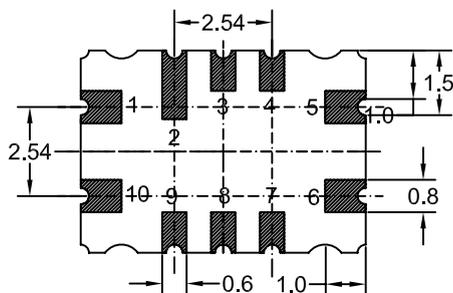
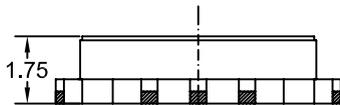
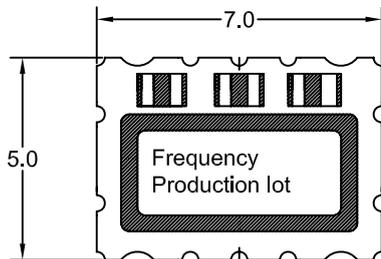
Frequency range: 12.8MHz
Supply voltage: 3.3V
Steady current: 10mA Max
Output waveform: CMOS
Frequency stability vs. operating temperature: 0.5ppm
Aging: 1.0ppm first year
Phase noise@10KHz: -151dBc/Hz
Operating temperature: -40°C to +85°C
Size: 7x5x1.75mm

Typical Applications

UHF Synthesizers
SATCOM System
Portable Microwave Applications

Mechanical Drawing & Pin Connections

Drawing No: MD150075-8



Pin Function

- #1 GND or NC
- #5 GND
- #6 Output
- #9 Tri-state or NC
- #10 Vcc

Do not connect #2, #3, #4, #7, #8

Unit in mm
1mm = 0.0394 inch



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range				12.8		MHz	
RF Output							
Output Waveform			CMOS				
Load	R _L				15	pF	
H-Level Voltage	V _H		90% V _{cc}			V	
L- Level Voltage	V _L				10% V _{cc}	V	
Tri-state function			pin #9 →high or open pin #9 →low or GND		pin #6 →oscillation pin #6 →high impedance		
Power Supply							
Supply Voltage	V _{cc}	±5%		3.3		V	
Current			2		10	mA	
Frequency Stability							
Frequency Tolerance		@+25°C			±1.0	ppm	
Versus Operating Temperature Range		Referenced to (F _{MAX} +F _{MIN})/2			±0.5	ppm	
Versus supply voltage		±5% change			±0.1	ppm	
Aging 1 st Year		@+40°C			±1.0	ppm	
SSB Phase noise		10Hz		-90		dBc/Hz	
		100Hz		-118		dBc/Hz	
		1kHz		-140		dBc/Hz	
		10kHz		-151		dBc/Hz	
Environmental, Mechanical Conditions							
Operating temperature range	-40°C to +85°C						
Storage temperature range	-55°C to +105°C						
Shock	MIL-STD-883C, Method 2002, Condition B						