



Features and Benefits

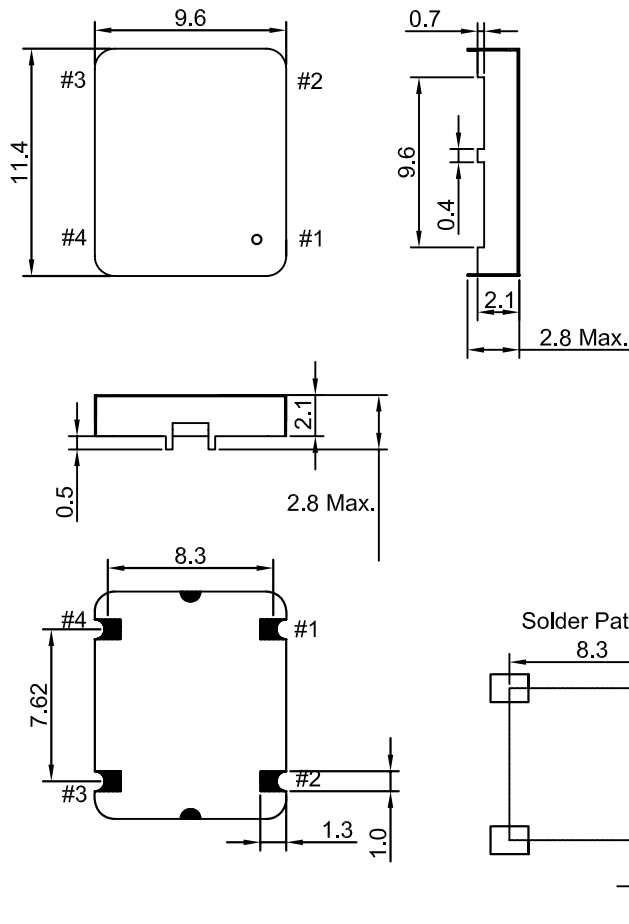
Better than ± 0.2 PPM from -40°C to $+85^{\circ}\text{C}$
3.3V supply; 7mA maximum
Phase Noise less than -140dBc/Hz @ 1KHz

Typical Applications

Mobile Radio
Communication Equipment

Mechanical Drawing & Pin Connections

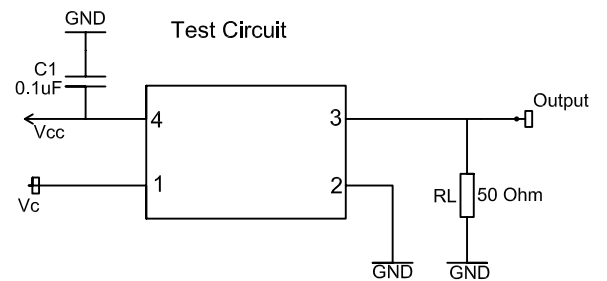
Drawing No:MD160111-3



Pin Connection:

Pin#	Symbol	Function
1	Vc	Voltage Control
2	GND	Ground
3	Output	RF Output
4	Vcc	Supply Voltage

Unit : mm
1mm=0.039inch





Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Nominal Frequency	F ₀			28.8000		MHz	
RF Output							
Output Wave Form			Sine Wave				
Output Level				> 3		dBm	
Load				50		Ω	
Power Supply							
Voltage				+3.3		V	
Current Consumption				<7		mA	
Frequency Stability							
VS. Tolerance ex factory		@ +25°C	0.0		+1.0	ppm	
VS. Temperature Reference (F _{MAX} +F _{MIN})/2		Over -40°C to +85°C		≤±0.2		ppm	
VS Supply Voltage Change Reference to frequency at nominal supply		±5%		≤±0.1		ppm	
VS.Load Change Reference to frequency at nominal load		±10%		≤±0.1		ppm	
Aging		1 st year		≤±1.0		ppm	
		Over 10 years		≤±4.0			
Frequency Slope		Over operating temperature		≤0.05		ppm/°C	
Short Term Stability ADEV		T = 1.0 s		<1 x 10 ⁻¹⁰			
Electronic Frequency Control (EFC) range	ΔF	Positive slope		>±5		ppm	
EFC Voltage	Vc			1.5		V	±1.0V
Phase Noise							
Phase noise@ 28.8 MHz		@ 10 Hz		-85		dBc/Hz	
		@ 100 Hz		-120			
		@ 1 kHz		-140			
		@ 10 kHz		-150			
		@ 100 kHz		-155			
Environmental Conditions							
Parameter		Reference Std.					
Operating Temperature Range		-40°C to +85°C					
Storage Temperature Range		-55°C to +105°C					
Reflow Profiles as per IPC/JEDEC J-STD-020C		≤260°C over 10 sec. max					
Moisture Sensitivity		Level 1 (unlimited)					
Packing Units		Tape and Reel 500 or 1000 pcs					