



### Features and Benefits

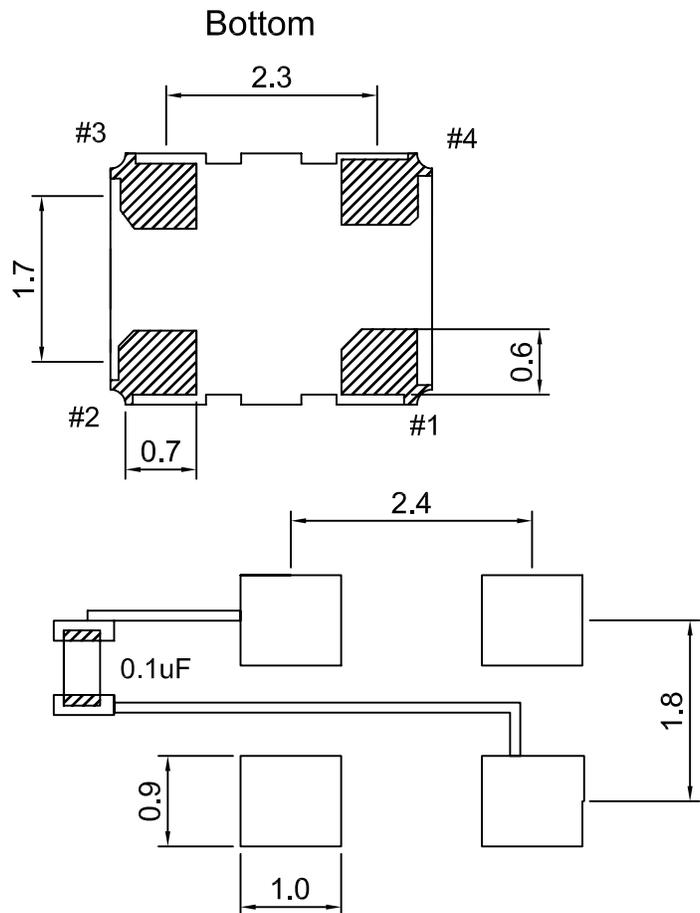
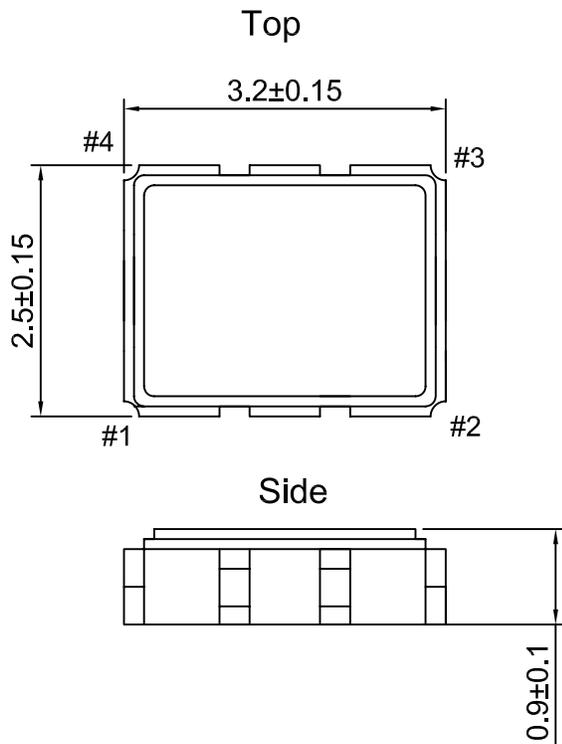
- 26MHz clipped sine wave output
- 3.2 mm x 2.5 mm x 0.9mm ceramic SMD package
- ±0.5 ppm frequency stability (over -20°C to +70°C)
- 2.8V supply voltage
- 2mA low power consumption

### Typical Applications

- WIFI/WiMAX, WLAN
- GPS
- Mobile phone

### Mechanical Drawing & Pin Connections

Drawing No: MD1\* 00%4%



Recommended soldering pattern

Pin	Funtion
Pin 1	GND/NC
Pin 2	GND
Pin 3	OUTPUT
Pin 4	VDD

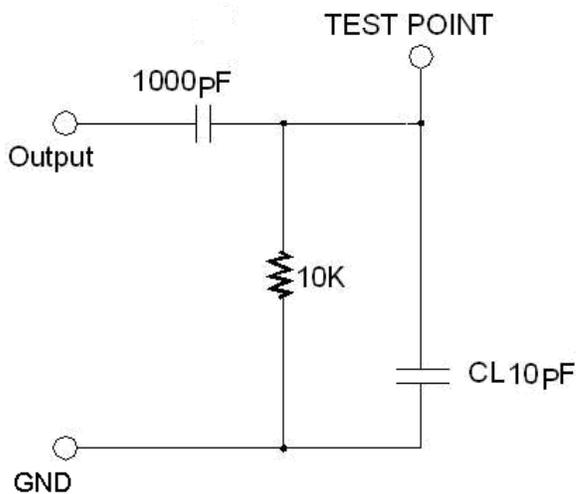
Unit in mm  
 1mm = 0.0394 inches



### Specifications

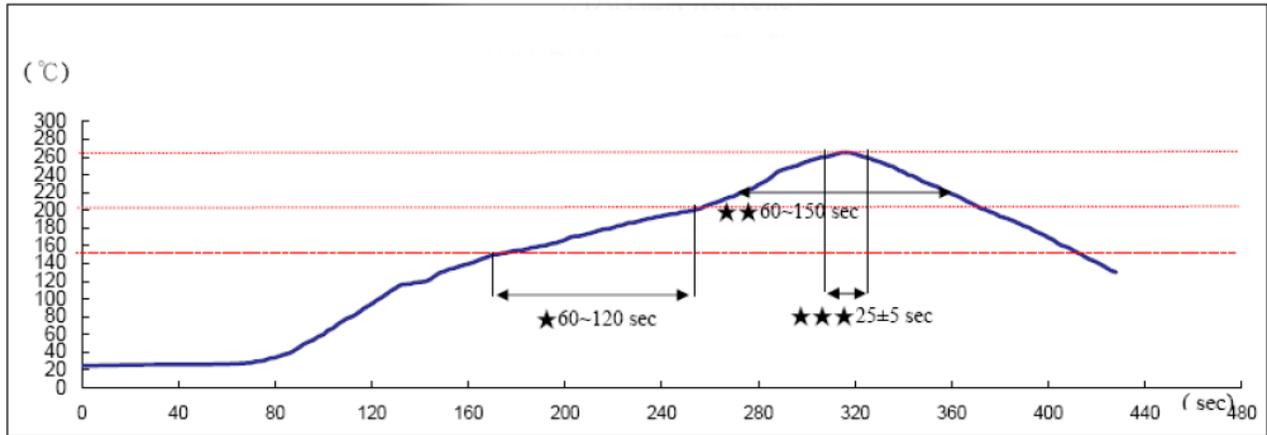
Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Nominal Frequency	F <sub>O</sub>		26			MHz	
Output Waveform			Clipped Sine Wave				
Output Level			0.8		2.0	Vp-p	
Output Load			10Kohm//10pF				
Start Time					2	msec	
<b>Power Supply</b>							
Supply Voltage	V <sub>DD</sub>	±5%		2.8		V	
Supply Current					2.0	mA	
<b>Frequency Stability</b>							
Frequency Tolerance		Frequency at +25°C, 1hour after 2times reflow			±2	ppm	
Frequency Stability Vs. Temperature		From -20°C to +70°C Referenced to the midpoint between minimum and maximum frequency value			±0.5	ppm	
Frequency Slope of Perturbations		Minimum of 1 frequency reading every 2°C			±0.2	ppm/°C	
Supply Voltage Change		Supply voltage varied ±5% at 25°C			±0.2	ppm	
Load Sensitivity		±10% load change			±0.2	ppm	
Aging		at +25°C 1 <sup>st</sup> year			±1	ppm	
Phase Noise		@ 10Hz		-90		dBc / Hz	
		@ 100Hz		-115			
		@ 1KHz		-135			
		@ 10KHz		-150			
		@ 100KHz		-152			
<b>Environmental Conditions</b>		<b>Reference Standards</b>	<b>Test Condition</b>				
Operating Temperature Range			-20°C to +70°C				
Storage Temperature Range			-40°C to +85°C				
Vibration Test		MIL-STD-883 2007 Condition A JESD22-B103 Condition 1	10~2000Hz, 1.52mm, 20g, each axis for 4hrs				
Thermal Shock		MIL-STD-883 1010 Condition B JESD22-A104 Condition B	-55°C, 125°C; soak time is 10 mins, with total 200 cycles				
Mechanical Shock		MIL-STD-883 2002 Condition B JESD22-B104 Condition B	1500G, half-sine, 0.5ms, each axis for 3 times.				

### Test Circuit





### Recommended IR Reflow Profile



Reference Standard: JEDEC-STD 020

Test conditions: ★ Pre-heating : 150°C to 200°C, 60~120secs.

★★ Heating : 217°C, 60~150sec.

★★★ Peak temperature : 260±5°C, 25±5sec.