



### Features and Benefits

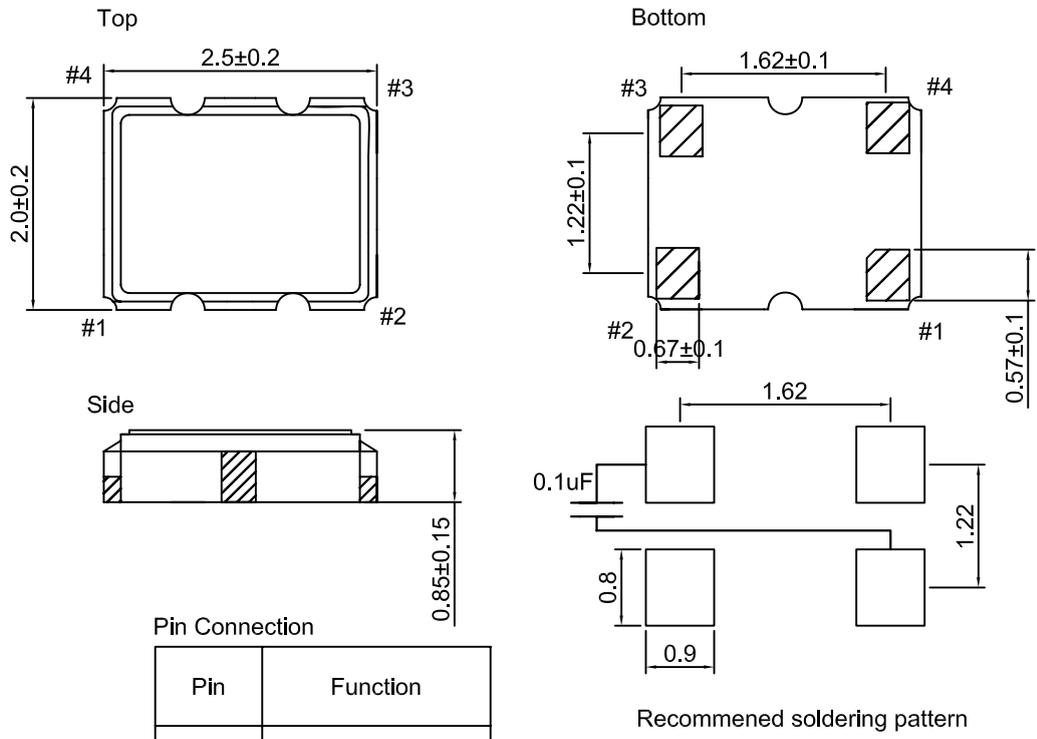
- Tolerance:  $\pm 2\text{PPM}$  @25°C
- $\pm 2.5\text{PPM}$  from -40°C to +85°C
- LVC MOS output
- 1.8V supply voltage
- Femto second phase jitter and -145dBc/Hz @10KHz offset

### Typical Applications

- Wireless
- Smart grid

### Mechanical Drawing & Pin Connections

**Drawing No:** MD160110-2



Pin Connection

Pin	Function
#1	Tri-state
#2	GND
#3	Output
#4	Vdd

Unit : mm  
1mm=0.0394inch



**Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	f <sub>0</sub>			26		MHz	
<b>RF Output</b>							
Output Waveform			CMOS				
Load				15		pF	
Output High(Logic"1")			0.9Vdd			V	
Output Low(Logic"0")					0.1Vdd	V	
Duty Cycle			45		55	%	
Rise & Fall Time					8	nSec.	
Start Time					5	mSec.	
Tri-State(Input to Pin 1)		Enable(High voltage or floating)	1.26			V	
		Disable(Low voltage or GND)			0.54	V	
<b>Power Supply</b>							
Voltage	V <sub>cc</sub>		1.71	1.8	1.89	V	
Current					5	mA	
<b>Frequency Stability</b>							
Vs. Temperature		From -40°C to +85°C			±2.5	ppm	
Tolerance		@25°C			±2.0	ppm	
Aging (1 <sup>st</sup> Year)		@25°C			±1.0	ppm	
RMS Phase Jitter		Integrated 12KHz to 20MHz			1.0	pSec.	
Phase Noise		10 Hz			-80	dBc/Hz	
		100 Hz			-110		
		1 KHz			-130		
		10 KHz			-145		
<b>Environmental Conditions</b>							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-55°C to +125 °C					