

### Features and Benefits

Temperature stability: +/-0.5ppm to +/-2.0ppm

Operating temperature range: -40°C to +85°C

Supply voltage: 1.8V to 3.3V

Voltage control function available

Frequencies: 16.367667MHz, 16.368MHz, 16.369MHz,  
19.2MHz, 26MHz, 33.6MHz, 38.4MHz, 40MHz, 52MHz

### Typical Applications

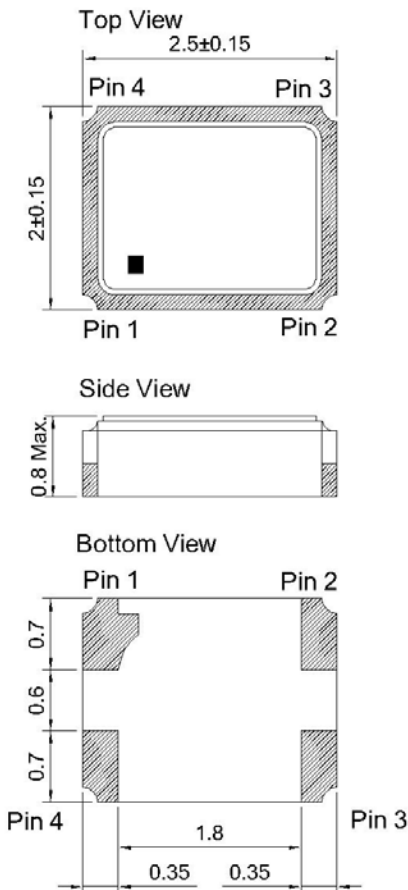
GPS

WiMAX

Cellular and Wireless Communications

### Mechanical Drawing & Pin Connections

Drawing No: MD150037-2

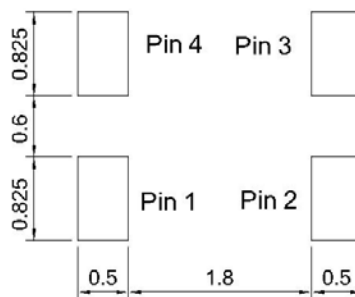


#### Pin Connection

Name	Function
Pin 1	AFC or GND
Pin 2	GND
Pin 3	OUTPUT
Pin 4	VCC

Unit : mm

#### Recommended Land Pattern



## Specifications

TCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Nominal Frequency	F <sub>nom</sub>		13		52	MHz	
Output	Output Waveform		Clipped sine wave				
	Output Voltage Level		0.8			Vp-p	
	Output Load		10Kohm//10pF				
	Start Up Time				5.0	ms	
	Harmonics				-5.0	dBc	
<b>Power Supply</b>							
Supply Voltage	V <sub>cc</sub>		1.8		3.3	V	
Supply Current					2.0	mA	
<b>Frequency Control*</b>							
Control Voltage Range	V <sub>c</sub>		0.4	1.4	2.4	V	
Tuning Range			+/-7 to +/-16			ppm	
<b>Frequency Stability</b>							
Frequency Tolerance		@+25°C after 2 reflows with typical applied to auto frequency control PIN			+/-2.5	ppm	
VS. Temperature		-40°C to +85°C			+/-0.5 or +/-2.0	ppm	
VS. Supply Voltage		V <sub>cc</sub> =Typical+/-0.1			+/-0.2	ppm	
VS. Load Change		+/-10% load change			+/-0.2	ppm	
Slope of Frequency Drift				+/-0.1	+/-0.5	ppm/°C	
First Year Aging		First year at 25°C			+/-1.0	ppm	
Phase noise (typ.)		@1 KHz		-130		dBc/Hz	
<b>Environmental Conditions</b>							
<b>Parameter</b>	<b>Reference Std.</b>			<b>Test Condition</b>			
Operating temperature range	-40°C to +85°C						
Storage temperature range	-40°C to +85°C						