



### Features and Benefits

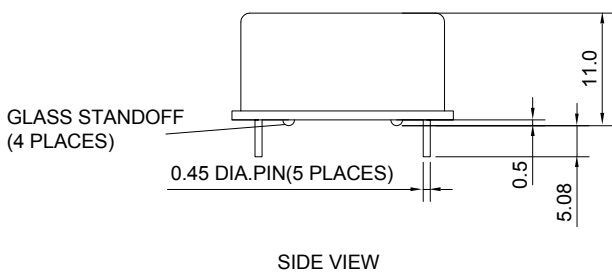
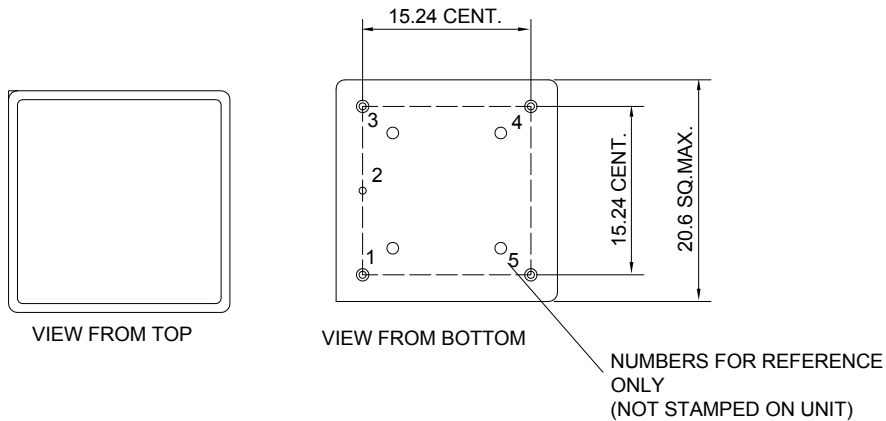
Dimension 20.6x20.6x11.0mm typical  
SC cut crystal

### Typical Applications

SDH/SONET, Telecommunication base station  
Test and measurement equipment  
Synthesizer, Digital switch, Reference Timing Circuit  
SATCOM ground station reference

### Mechanical Drawing & Pin Connections

Drawing No: MD160045-1



#### PIN CONNECTION 1

Pin	Signal
1	CONTROL VOLTAGE
2	REFERENCE VOLTAGE
3	GND
4	R.F. OUTPUT
5	VCC

Unit: mm  
1mm=0.039inch



**Specifications**

OCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F <sub>0</sub>			10.000000		MHz	
<b>RF Output</b>							
Output Waveform				Rectangular			
Level				HCMOS			
Output Level <sup>"1"</sup>			+3.5			V	
Output Level <sup>"0"</sup>					+0.5	V	
Load				15		pF	
Duty Cycle		@+2.0V	45	50	55	%	
Spurious					-60	dBc	
<b>Power Supply</b>							
Voltage	V <sub>cc</sub>		4.75	5.0	5.25	V	
Current		Warm-up			500	mA	
		Steady State			1.0	W	@+25°C
<b>Reference Voltage</b>							
Reference Voltage			3.8	4.0	4.2	V	
Load			9			Kohm	
<b>Frequency Control</b>							
Tuning Range		VCO @ 0V			-0.4	ppm	Ref. to frequency at nominal center voltage
		VCO @ 4V	+0.4			ppm	
Control Voltage	V <sub>c</sub>		0	2.0	4.0	V	
Slope				Positive			
Input Impedance			100			Kohm	
<b>Frequency Stability</b>							
Vs. Operating Temperature Range			-40°C to +85°C			+/-50	ppb
Vs. Supply Voltage Change			+/-5% change			+/-0.5	ppb
Warm-up			In 3 minutes			+/-50	ppb
Aging	Per Day		@+25°C ref. to 1hour			+/-0.5	ppb
	Per Year		After 30 Days			+/-50	ppb
	10 Years					+/-0.3	ppm
<b>Phase Noise</b>							
Phase Noise		@10Hz				-115	dBc/Hz
		@100Hz				-135	dBc/Hz
		@1KHz				-145	dBc/Hz
		@10KHz				-150	dBc/Hz
<b>Environmental</b>							
Operating Temperature Range			-40°C to +85°C				