



### Features and Benefits

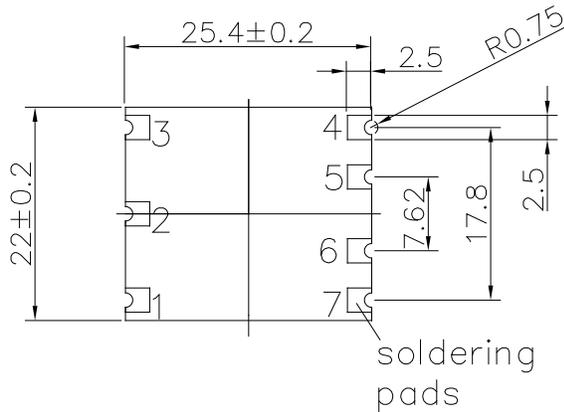
500MHz sine wave output  
Less than +/-0.5ppm from -20°C to +70°C  
3.3V supply voltage, 50mA power consumption

### Typical Applications

Clock Reference

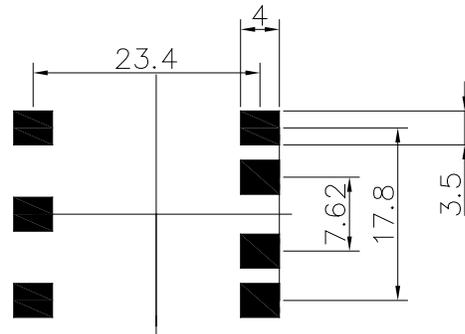
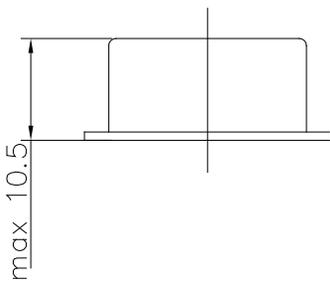
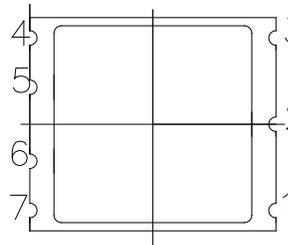
### Mechanical Drawing & Pin Connections

**Drawing No: MD150088-1**



Pin Connections:

1. N.C.
2. N.C.
3. Supply voltage  $V_s$
4. N.C.
5. GND
6. RF out
7. GND





### Specifications

TCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency Range	F <sub>nom</sub>			500		MHz	
Sine wave	Level		0	+3	+6	dBm	
	Load			50		Ohm	
	Start-up time				10	ms	
	Harmonics					50	dBc
	Subharmonics					50	dBc
<b>Power Supply</b>							
Voltage	V <sub>cc</sub>		3.15	3.30	3.45	V	
Current Consumption					50	mA	
<b>Frequency Stability</b>							
Vs. Temperature		-20°C to 70°C	-0.5		+0.5	ppm	
		-40°C to 85°C	-1.0		+1.0	ppm	
Tolerance at 25°C			-0.4		+0.4	ppm	
Vs. Supply Voltage		5% change in supply voltage	-0.1		+0.1	ppm	
Vs. Load		10% load change	-0.1		+0.1	ppm	
Total Frequency Stability:		including frequency stability vs. temperature, vs. load changes ±10%, vs. supply voltage changes ±5% and 15 years aging @ +40 °C)	-4.6		+4.6	ppm	
First Year Aging			-1.00		+1.00	ppm	
15 Year Aging			-2.5		+2.5	ppm	
Phase Noise		10 Hz		-62.0	-56.0	dBc/Hz	
		100 Hz		-103.0	-97.0		
		1000 Hz		-130.0	-125.0		
		10 KHz		-145.0	-140.0		
		100 KHz		-150.0	-145.0		
<b>Environmental Conditions</b>							
Operating Temperature Range		-40°C to 85°C					
Storage Temperature Range		-45°C to 90°C					