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TCXO5300ULG-ET-10MHz-A-V
Extended Temperature Very Rugged TCXO

Features and Benefits

Less than ±2 ppm over -55°C to +95°C
CMOS output
<1.0 ppm per year aging
Multiple supply voltage options; 6mA current consumption

Typical Applications

Reference clock for rugged and harsh environment
Microwave communication
Wireless systems
Portable devices

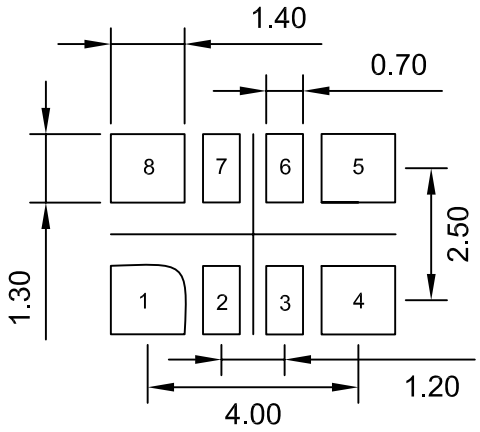
Description

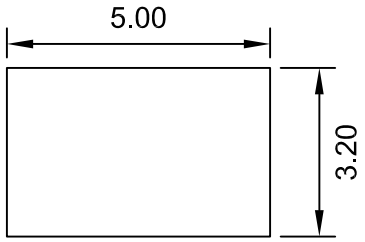
Low G-sensitivity AT-cut resonator technology is combined with advanced IC compensation techniques (6th order compensation) to deliver the best combination of frequency stability and vibration resistance in a reference clock for harsh environment.

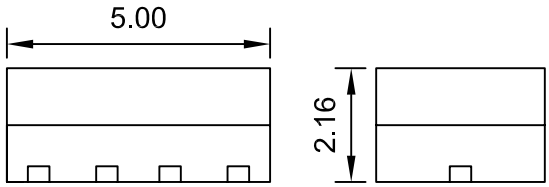
Mechanical Drawing & Pin Connections

Drawing No: MD170031-1

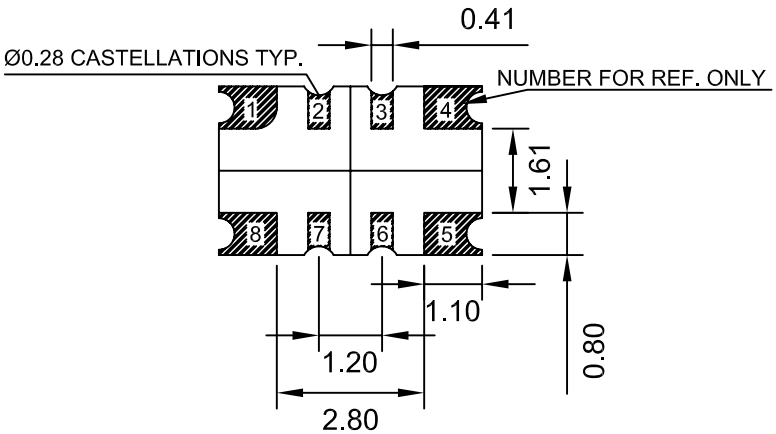
Recommended soldering pattern







Pin	Function
#1	EFC
#2	N/C
#3	N/C
#4	GND
#5	Output
#6	Tri-State (Enable Hi or Float)
#7	N/C
#8	Supply Voltage



Unit in mm
1mm = 0.0394 inches

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F_o			10.0		MHz	
Frequency vs. Reflow		After 24 hours recovery		<1		ppm	
Frequency Adjustment		Via 0 to VCC control V Positive slope		±8		ppm	Available with no adjustment
G-sensitivity				≤7x10^{-10}		/g	
Power Supply							
Supply Voltage		±5%		3.3		Vdc	
Supply Current				<6		mA	
Output							
Output Waveform				CMOS			
Symmetry		±10%		50		%	
Output Logic (3.3V) - High - Low			+2.8		+0.2	V	
Load				15		pF	
Frequency Stability							
Vs. Operating Temperature Range		-55°C to +95°C		±2		ppm	
Aging (typical)				<1		ppm / year	
Environmental Conditions	**Reference Standard**						
Operating temperature range	-55°C to +95°C						
Vibration	Per MIL-STD-202G, Method 214, Condition I-F						
Shock	Per MIL-STD-202G, Method 213, Condition D						