Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

H7 LC) ' \$\$I @ !%\$A < n!5 !J Tight Temp Stability Very Rugged TCXO

Features and Benefits

Less than ±0.2 ppm over -40°C to +85°C CMOS output <1.0 ppm per year aging Multiple supply voltage options; 6mA current consumption

Typical Applications

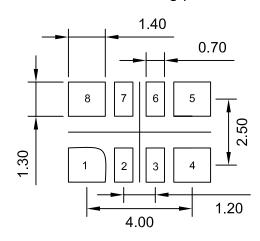
Reference clock for rugged and harsh environment Microwave communication Wireless systems Portable devices

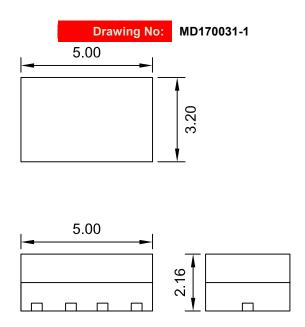
Description

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

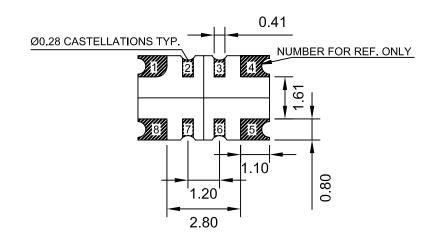
Recommended soldering pattern





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





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Specifications

Oscillator	Sym	Condition	Value			Unit	Note		
Specification			Min.	Тур.	Max.	Unit	Note		
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			+2.8			V			
- Low					+0.2				
Load				15		pF			
Frequency Stability									
Vs. Operating Temperature Range		-40°C to +85°C		±0.2		ppm			
Aging (typical)				<1.0		ppm / year			
Environmental Conditions	Reference Standard								
Operating temperature range	-40°C to +85°C								
Vibration	Per MIL-STD-202G, Method 214, Condition I-F								
Shock	Per MIL-STD-202G, Method 213, Condition D								