

FEATURES

- 100% electrical test over -40°C to +85°C and at +25°C
- CoC and Packing Slip to be included with each shipment
- Domestic USA build only
- Hermetically Sealed 5x7mm Ceramic Package
- SnPb solder tinned pads

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F ₀		10.000000		MHz	
Frequency Tolerance	F/F	-20		+20	ppm	@ +25°C
Frequency Stability	ΔF/F	-50		+50	ppm	Over Operating Temperature
Aging		-5		+5	ppm	1st year
Load Capacitance	C _L		18		pF	
Shunt Capacitance	C ₀			7.0	pF	
ESR				70	Ω	
Drive Level	D _L	10	100	500	μW	
Insulation Resistance	I _R	500			MΩ	
Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-55		+125	°C	

ENVIRONMENTAL CHARACTERISTICS

Mechanical Shock	Per MIL-STD-883, M2002, Condition C 3,000 g's
Vibration	Per MIL-STD-STD-202, M204, Condition D , 20 g's
Thermal Cycle	Per MIL-STD-883, M1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)
Fine Leak Test	Per MIL-STD-202, M112 (1 x 10 ⁻⁸ atm cc/s of Helium)
Gross Leak Test	Per MIL-STD-202, M112 (30 second immersion)
Constant Acceleration	Per MILSTD-883, M2001, Condition A, 5,000 g's Y1
Salt Atmosphere	Per MILSTD-883, M1009, Condition A
Internal Water Vapor	Per MILSTD-883, M1018, 5,000ppm Max
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1
Package Type	5.0 x 7.0 x 1.2 mm, 4-pad LLCC. Sn-Pb tinned pads.

SOLDERING CONDITIONS

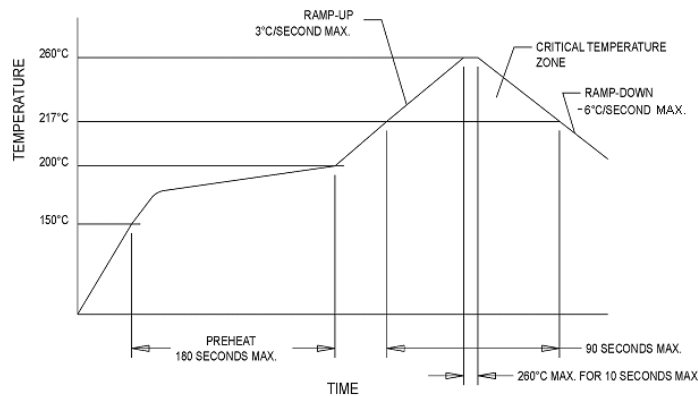


Figure 1

Applications

- Test and Measurement
- Communications Equipment
- Microprocessor Timing
- Public Safety

Quality &

Certifications

- AS9100 Rev D
- ISO9001:2008



Fast facts

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mtronpti.com

Orlando

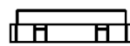
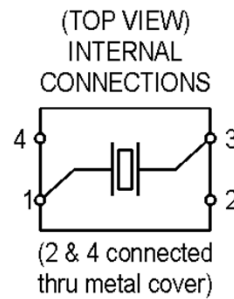
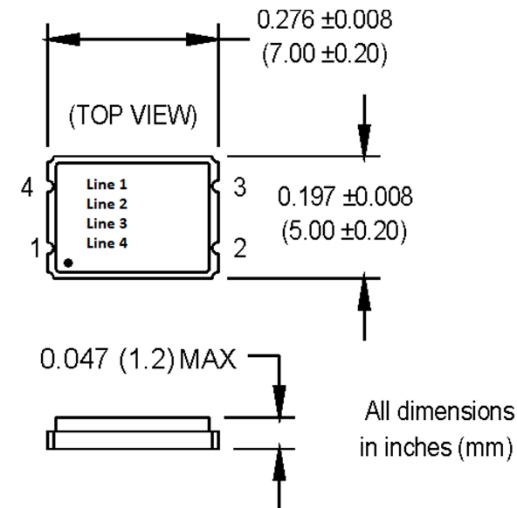
2525 Shader Rd
Orlando, FL 32804 USA
Phone: 407-298-2000
Fax: 407-293-2979

PACKAGE AND PINOUT

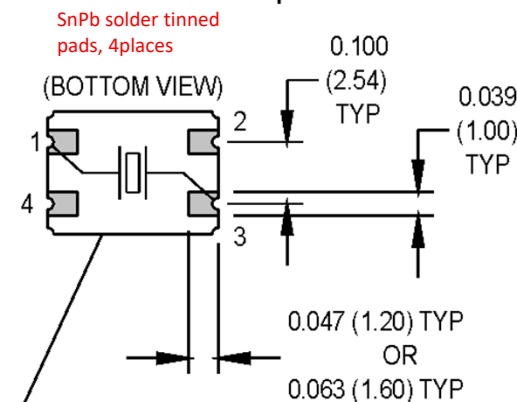
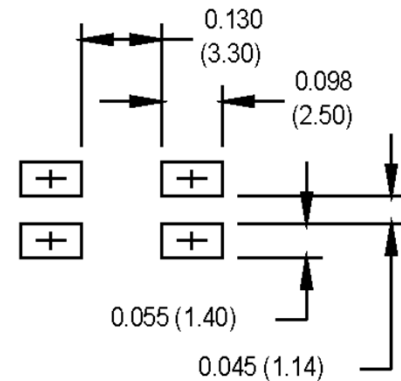
Pad	Function
1	Input / Output
2	Cover / Ground
3	Input / Output
4	Cover / Ground

Part Marking	
Line 1	M1007S161
Line 2	10M00000
Line 3	M yy ww
Line 3	MFR23875

Legend	
yy	Year
ww	Work week



SUGGESTED SOLDER PAD LAYOUT



NOTE: ORIENTATION MARKS MAY VARY;
NOT CRITICAL FOR CRYSTAL OPERATION.

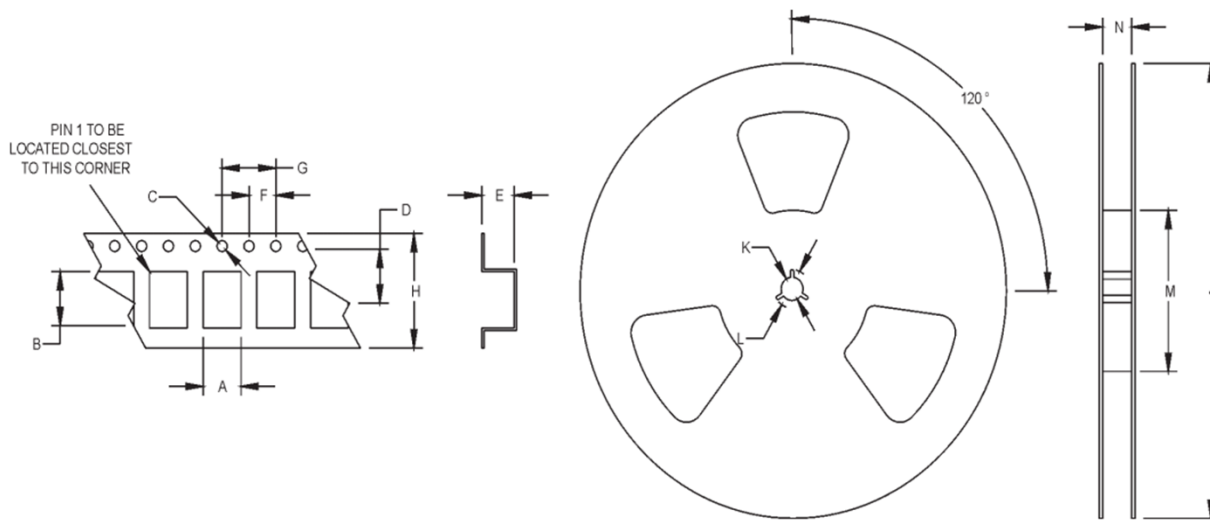
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TAPE AND REEL

All units in mm



Tape and Reel Specifications												
A	B	C	D	E	F	G	H	J	K	L	M	
5.42	7.59	1.5	7.5	1.82	4	8	16	178-330	13	21	80	