

## SPECIFICATION FOR LOW-PROFILE SMT CRYSTAL

### MtronPTI P/N: M1007S165

#### Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F <sub>0</sub>		10.368000		MHz	
Frequency Tolerance	F/F	-10		+10	ppm	@ +25°C
Frequency Stability	ΔF/F	-10		+10	ppm	Over Operating Temperature
Operating Temperature	T <sub>A</sub>	-20		+70	°C	
Aging		-2		+2	ppm	First year
Load Capacitance	C <sub>L</sub>		9		pF	
Shunt Capacitance	C <sub>0</sub>			5	pF	
ESR				37	Ω	
Motional Capacitance	C <sub>1</sub>		6.7		fF	
Drive Level	D <sub>L</sub>	10	50	100	μW	
Insulation Resistance	I <sub>R</sub>	500			MΩ	

#### Environmental & Mechanical Requirements:

Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sinewave)
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)
Thermal Cycle	Per MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)
Hermeticity	1 X 10 <sup>-8</sup> atm cc/sec minimum
Storage Temperature	-55°C to +125°C
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 leadless ceramic. RoHS compliant. PM-type

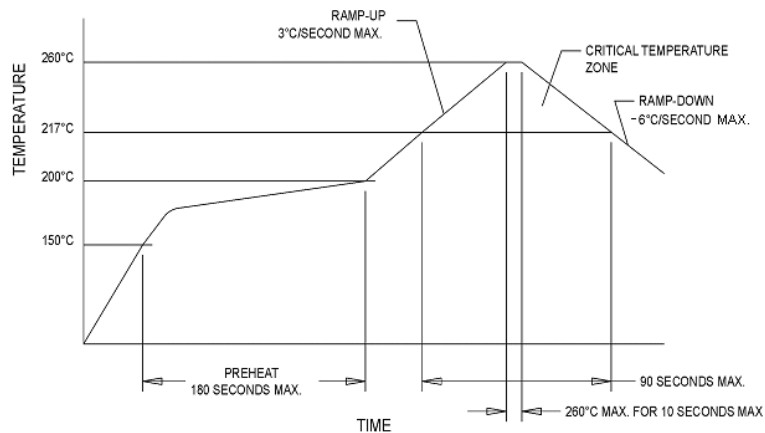


Figure 1

## SPECIFICATION FOR LOW-PROFILE SMT CRYSTAL

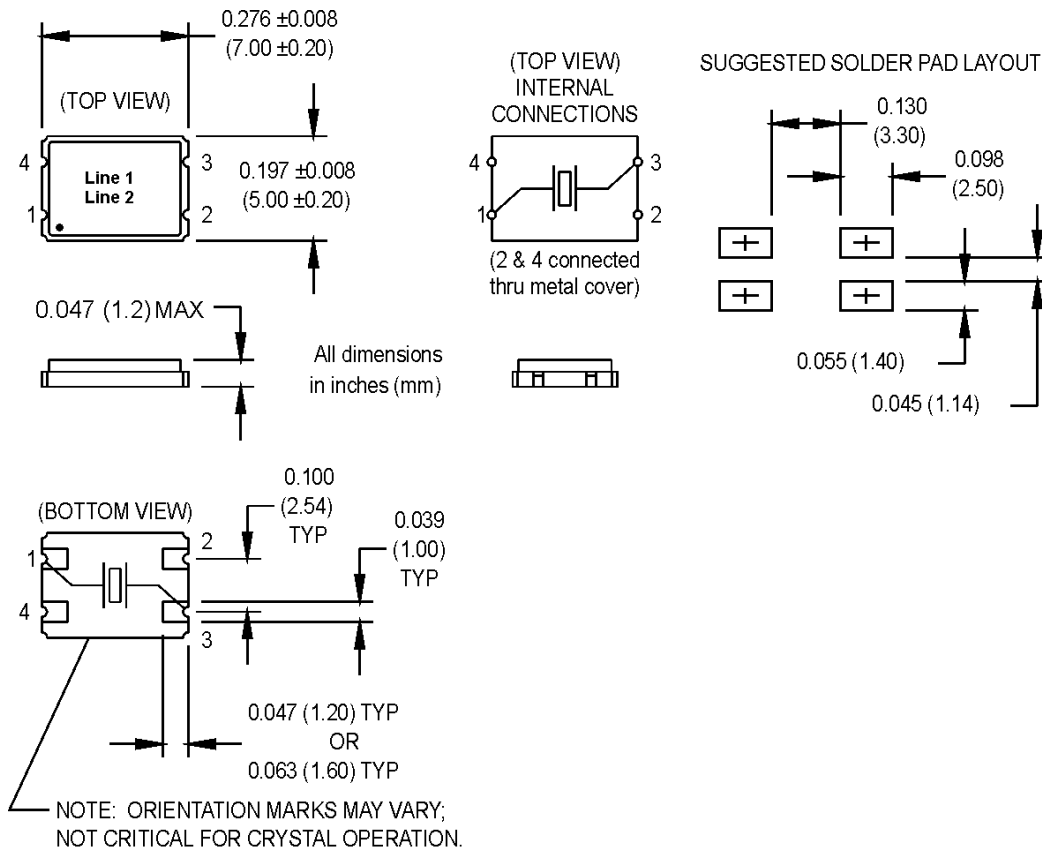
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#### Dimensions, Marking, and Pin Out Information :

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

Part Marking	
Line 1	M1036VXY
Line 2	M1007S165

Legend	
M	MtronPTI
V	Vendor code
X	Month
Y	Year



#### DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
12/10/10	0	DCO	Original release.