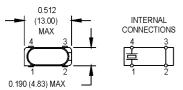


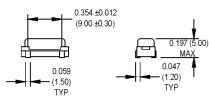
# **PTX Surface Mount Crystals**



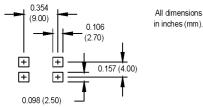


## Package A

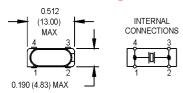


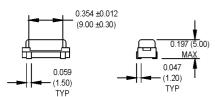


#### SUGGESTED SOLDER PAD LAYOUT

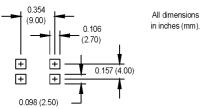


### Package B





SUGGESTED SOLDER PAD LAYOUT



Ordering Information			
Product Series	PTX A 1 M	00.0000 M XX MHz	
Package ———— "A" or "B"			
Temperature Range —			
	<b>2</b> : -40°C to +85°C		
3: -10°C to +60°C	6: -20°C to +70°C		
Tolerance			
D: ±10 ppm F			
G: ±20 ppm J	: ±30 ppm		
M: ±50 ppm P	': ±100 ppm		
Stability —			
F: ±15 ppm G			
H: ±25 ppm J			
M: ±50 ppm F	': ±100 pp m		
*Load Capacitance —			
Blank: 18 pF (std) S: Series Resonant			
XX: Customer Specified 10 pF to 32 pF			
Frequency (customer specified)			
Prefix "SR" should be used for series resonant; i.e., SRPTX-1MM 20.0000 MHz			

PARAMETERS	VALUE	
Frequency Range*	3.579 to 72.000 MHz	
Tolerance @ +25°C	See Table Above	
Stability	See Table Above	
Aging	$\pm 5$ ppm/yr. Max.	
Standard Operating Conditions	See Table Above	
Storage Temperature	-55°C to +105°C	
Shunt Capacitance	7 pF Max.	
Load Capacitance	18 pF Std.	
Equivalent Series Resistance (ESR), Max.		
Fundamental (AT cut)		
3.579 to 3.999 MHz	<b>180</b> Ω	
4.000 to 4.999 MHz	<b>150</b> Ω	
5.000 to 6.999 MHz	100 Ω	
7.000 to 14.999 MHz	<b>50</b> Ω	
15.000 to 23.999 MHz	<b>40</b> Ω	
24.000 to 40.000 MHz	<b>30</b> Ω	
Third Overtones (AT cut)		
40.000 to 72.000 MHz	<b>80</b> Ω	
Drive Level	100 μW Max.	
Holder	HC-49/US-SMD	
Mechanical Shock	MIL-STD-202, Method 213, C	
Vibration	MIL-STD-202, Method 201 & 204	
Thermal Cycle	MIL-STD-883, Method 1010, B	

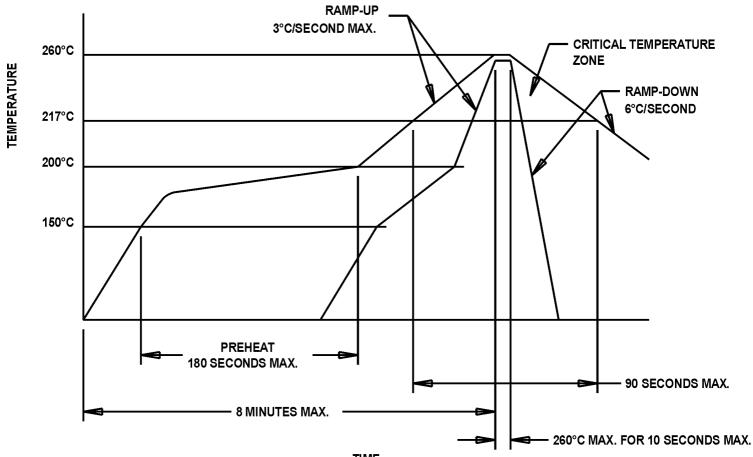
\* Because this product is based on AT-Strip technology, not all frequencies in the range stated are available. Contact the factory for availability of specific frequencies.

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Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.



## **MtronPTI Lead Free Solder Profile**



TIME

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