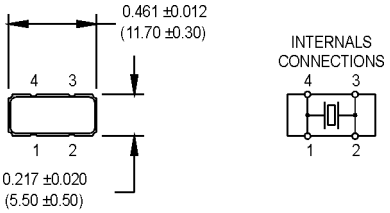
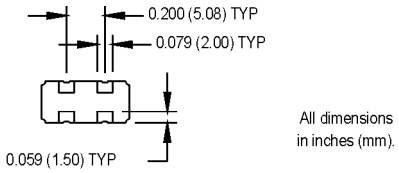
PJ Surface Mount Crystals
5.5 x 11.7 x 2.2 mm



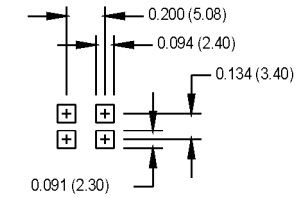
RoHS Compliant

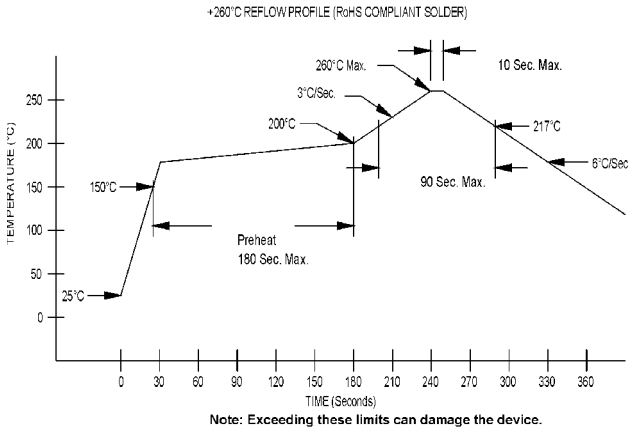




All dimensions
in inches (mm).

SUGGESTED SOLDER PAD LAYOUT





Note: Exceeding these limits can damage the device.

Ordering Information

PJ 1 P P XX MHz

Product Series

Temperature Range
- **1:** -10°C to +70°C
- **2:** -40°C to +85°C
- **3:** -10°C to +60°C
- **6:** -20°C to +70°C

Tolerance
- **J:** ±30 ppm
- **M:** ±50 ppm
- **P:** ±100 ppm

Stability
- **J:** ±30 ppm
- **M:** ±50 ppm
- **P:** ±100 ppm

Load Capacitance
- **Blank:** 18 pF (std)
- **S:** Series Resonant
- **XX:** Customer Specified 10 pF to 32 pF

Frequency (Customer Specified)

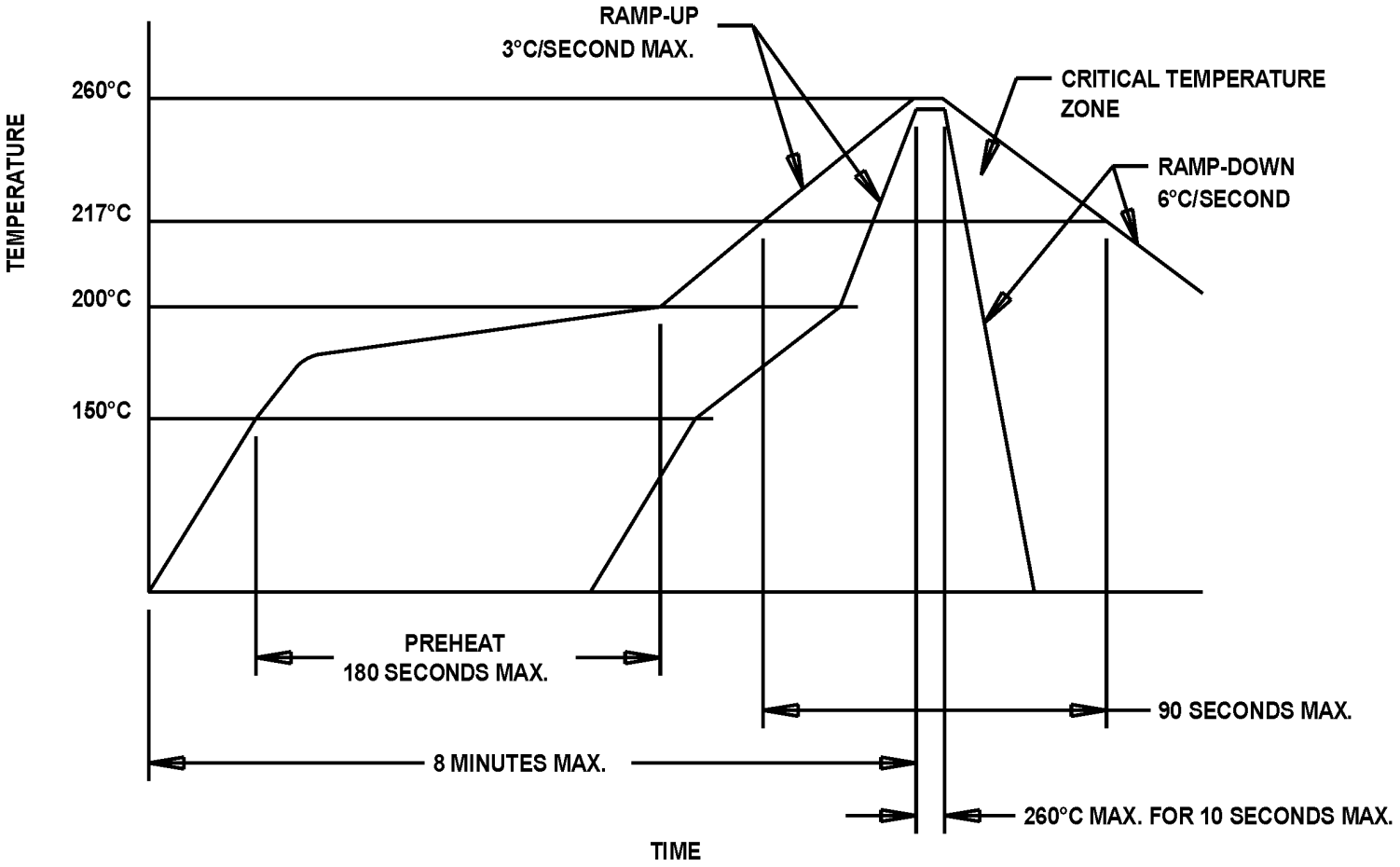
Electrical/Environmental Specifications

PARAMETERS	VALUE
Frequency Range*	3.579545 to 30.000 MHz
Tolerance @ +25°C	See Table Above
Stability	See Table Above
Aging	±5 ppm/yr. Max.
Shunt Capacitance	7 pF Max.
Load Capacitance	18 pF Std.
Standard Operating Conditions	See Table Above
Equivalent Series Resistance (ESR), Max.	
Fundamental (AT-cut)	
3.579 to 3.999 MHz	200 Ω
4.000 to 7.999 MHz	150 Ω
8.000 to 9.999 MHz	100 Ω
10.000 to 19.999 MHz	80 Ω
20.000 to 30.000 MHz	50 Ω
Drive Level	100 μW Max.
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.

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

MtronPTI Lead Free Solder Profile



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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.**