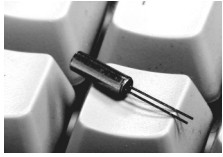


# ATS-1 and ATS-2 Crystals



Hermetically sealed AT-strip crystals for incorporation in frequency and time domain products

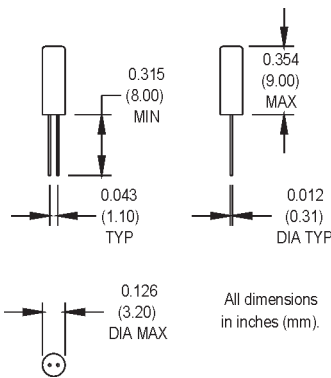
ATS-1 and ATS-2 crystals provide a convenient component for incorporation into other components or subsystems. These units are engineered for assembly in all common solder reflow processes, including typical IR and vapor phase reflow temperature profiles.

**This product is not recommended for new designs**

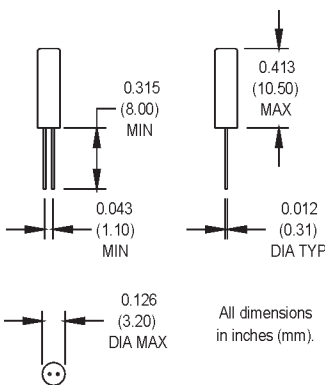
ATS-1 00.0000 MHz (customer specified frequency)

ATS-1-R 00.0000 MHz (RoHS Compliant and customer specified frequency)

M1009Sxxx - Contact factory for datasheet.



**This product is not recommended for new designs**



PARAMETERS	*ATS-1	*ATS-2
Frequency Range <sup>1</sup>	4.001 to 70.000 MHz	3.579 to 4.000 MHz
Tolerance @ +25°C	±30 ppm	±30 ppm
Stability	±50 ppm	±50 ppm
Aging	±5 ppm/yr. Max.	±5 ppm/yr. Max.
Shunt Capacitance	5 pF Max.	5 pF Max.
Load Capacitance	18 pF Std.	18 pF Std.
Standard Operating Conditions	-10°C to +60°C	-10°C to +60°C
Equivalent Series Resistance (ESR), Max.		
Fundamental (AT-cut)		200 Ω
3.579 to 3.999 MHz	150 Ω	
4.000 to 5.999 MHz	100 Ω	
6.000 to 9.999 MHz	100 Ω	
10.000 to 32.000 MHz	50 Ω	
Third Overtones (AT-cut)		
30.000 to 35.999 MHz	100 Ω	
36.000 to 70.000 MHz	80 Ω	
Drive Level	100 μW Max.	100 μW Max.
Holder (ATS-1 and ATS-2)	Compression seal	
Mechanical Shock	MIL-STD-202, Method 213, C	
Vibration	MIL-STD-202, Method 201 & 204	
Solder Conditions	Per MIL-STD-202, Method 210, Condition C	
Thermal Cycle	MIL-STD-883, Method 1010, B	

\* Series resonant designated by "SR" prefix (i.e., SRATS-1).

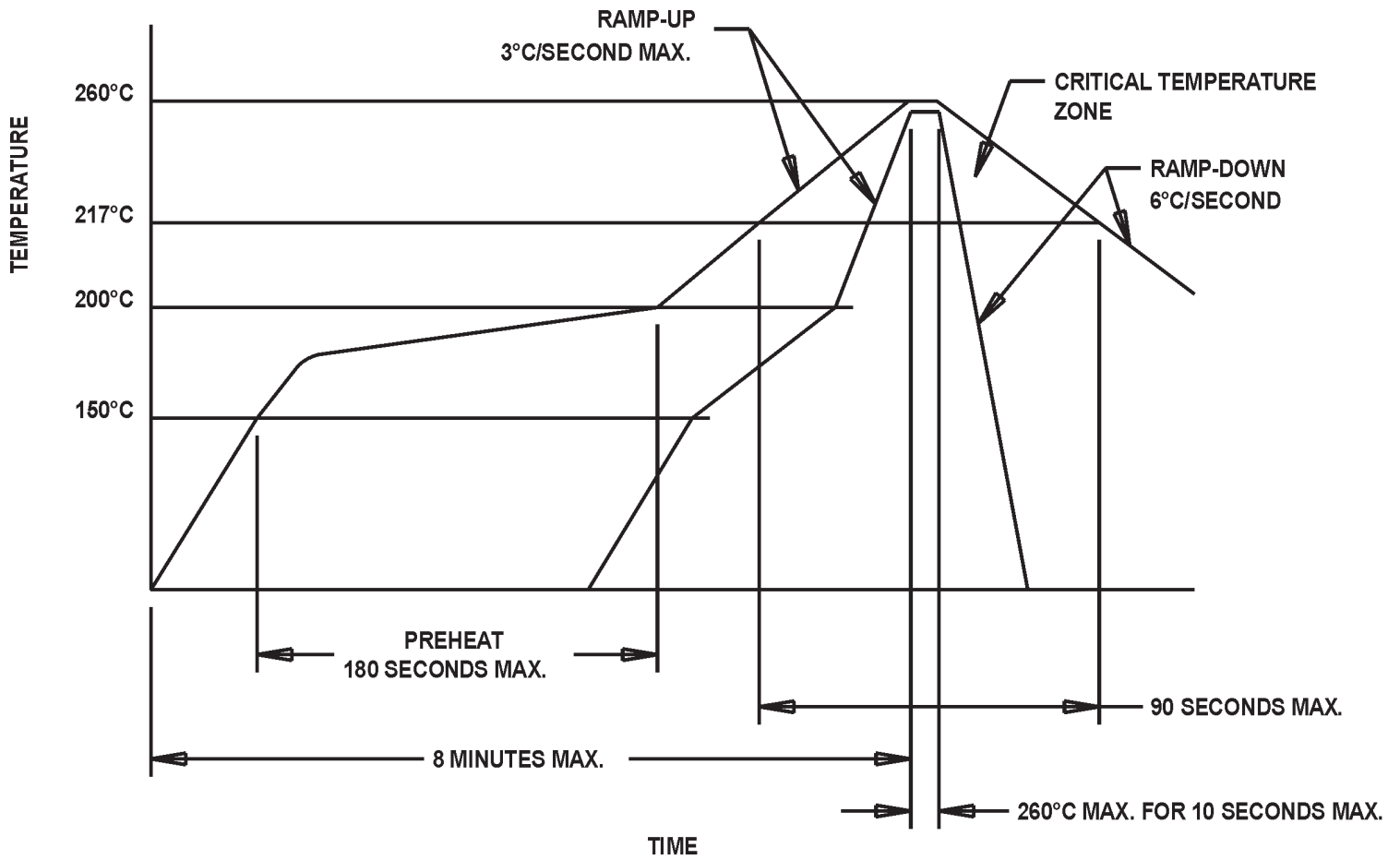
<sup>1</sup> Because this product is based on AT-strip technology, not all frequencies in the range stated are available. Contact the factory for availability of specific frequencies.

ATS-2 00.0000 MHz (customer specified frequency)

ATS-2-R 00.0000 MHz (RoHS Compliant and customer specified frequency)

M1020Sxxx - Contact factory for datasheet.

# MtronPTI Lead Free Solder Profile



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.

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