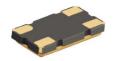
# PP & PR Surface Mount Crystals 3.5 x 6.0 x 1.2 mm



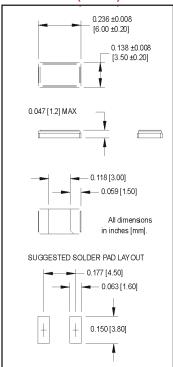




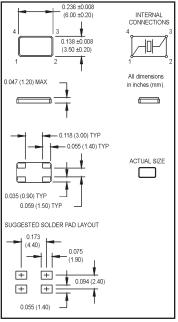


- Miniature low profile package (2 & 4 Pad)
- RoHS Compliant
- Wide frequency range
- · PCMCIA high density PCB assemblies

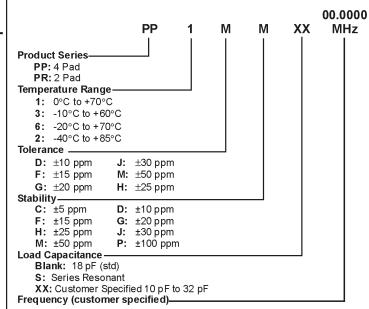
### PR (2 Pad)



#### PP (4 Pad)



## Ordering Information



M1003Sxxx & M1005Sxxx - Contact factory for datasheet.

### **Available Stabilities vs. Temperature**

T	D	F	G	Н	J	М
1	Α	Α	Α	Α	Α	Α
2	N	N	Α	Α	Α	Α
3	Α	Α	Α	Α	Α	Α
6	N	N	Α	Α	Α	Α

A = Available N = Not Available

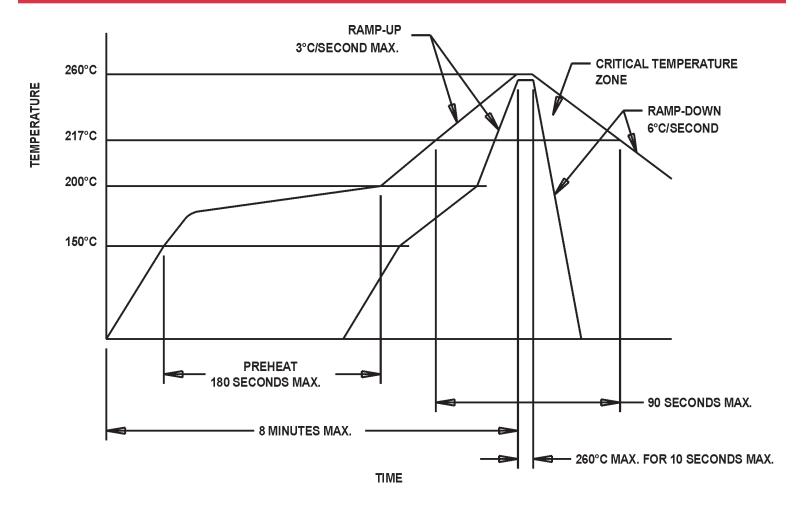
pecifications	PARAMETERS	VALUE		
	Frequency Range*	10.000 to 180.000 MHz		
	Tolerance @ +25°C	See ordering information		
	Stability	See ordering information		
	Aging	±2 ppm/yr Max		
	Shunt Capacitance	5 pF Max.		
	Load Capacitance	See ordering information		
	Standard Operating Conditions	See ordering information		
۱ĕ	Equivalent Series Resistance (ESR), Max.			
ဟ	Fundamental (AT-cut)			
ıta	10.0000 to 12.999 MHz	<b>80</b> Ω Max.		
Electrical/Environmental	13.000 to 13.999 MHz	50 Ω Max.		
	14.000 to 19.999 MHz	40 Ω Max.		
	20.000 to 45.000 MHz	30 $\Omega$ Max.		
Ē	Third Overtones (AT-cut)			
<u>a</u>	40.000 to 150.000 MHz	50 $\Omega$ Max.		
ᆙ	Fifth Overtones (AT-cut)			
	100.000 to 180.000 MHz	90 Ω Max.		
"	Drive Level	100 μW Max, 50 μW Typ, 10 μW Min		
	Mechanical Shock	MIL-STD-202, Method 213, C		
	Vibration	MIL-STD-202, Method 201 & 204		
	Thermal Cycle	MIL-STD, Method 1010, B		
	Max Soldering Conditions	See solder profile, Figure 1		

<sup>\*</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 frequencies > 100 MHz.

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# MtronPTI Lead Free Solder Profile



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