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



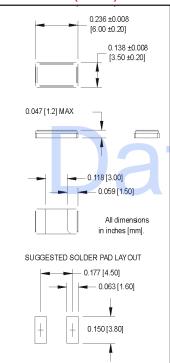




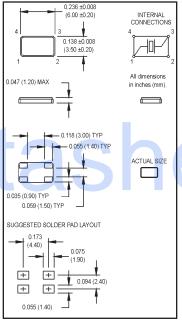


- Miniature low profile package (2 & 4 Pad)
- RoHS Compliant
- Wide frequency range
- PCMCIA high density PCB assemblies

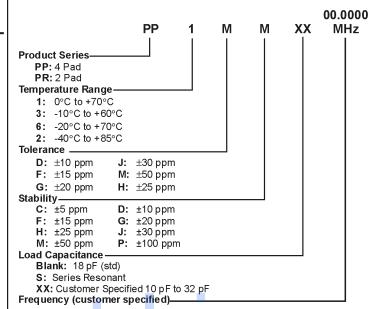
#### PR (2 Pad)



#### 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

	PARAMETERS	VALUE		
	Frequency Range*	10.000 to 180.000 MHz		
	Tolerance @ +25°C	See ordering information		
	Stability	See ordering information		
က္ခ	Aging	±2 ppm/yr Max		
Specifications	Shunt Capacitance	5 pF Max.		
cat	Load Capacitance	See ordering information		
ΙĔ	Standard Operating Conditions	See ordering information		
l ĕ	Equivalent Series Resistance (ESR), Max.			
	Fundamental (AT-cut)			
lta	10.0000 to 12.999 MHz	80 Ω Max.		
lei u	13.000 to 13.999 MHz	50 Ω Max.		
=	14.000 to 19.999 MHz	40 $\Omega$ Max.		
۱÷	20.000 to 45.000 MHz	30 Ω Max.		
ايًا	Third Overtones (AT-cut)			
a	40.000 to 150.000 MHz	50 $\Omega$ Max.		
÷	Fifth Overtones (AT-cut)			
Electrical/Environmental	100.000 to 180.000 MHz	90 Ω Max.		
۱"	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		
1	Thermal Cycle	MIL-STD, Method 1010, B		
L	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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