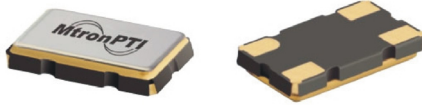


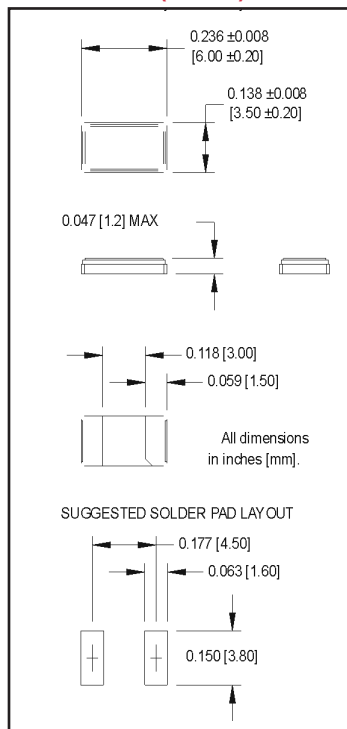
PP & PR Surface Mount Crystals

3.5 x 6.0 x 1.2 mm

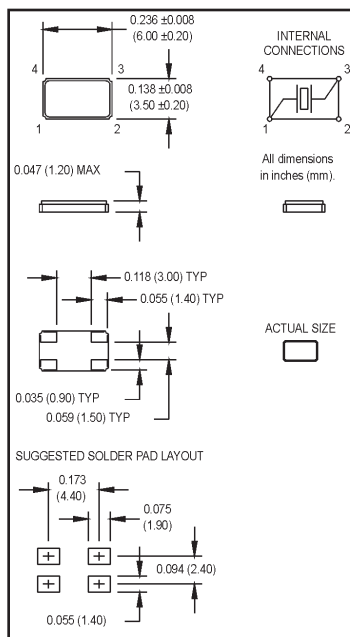


- Miniature low profile package (2 & 4 Pad)
- RoHS Compliant
- Wide frequency range
- PCMCIA - high density PCB assemblies

PR (2 Pad)



PP (4 Pad)



Ordering Information

	PP	1	M	M	XX	00.0000 MHz				
Product Series										
PP: 4 Pad										
PR: 2 Pad										
Temperature Range										
1: 0°C to +70°C										
3: -10°C to +60°C										
6: -20°C to +70°C										
2: -40°C to +85°C										
Tolerance										
D: ±10 ppm	J: ±30 ppm									
F: ±15 ppm	M: ±50 ppm									
G: ±20 ppm	H: ±25 ppm									
Stability										
C: ±5 ppm	D: ±10 ppm									
F: ±15 ppm	G: ±20 ppm									
H: ±25 ppm	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)										

M1003Sxxx & M1005Sxxx - Contact factory for datasheet.

Available Stabilities vs. Temperature

T \ S	D	F	G	H	J	M
1	A	A	A	A	A	A
2	N	N	A	A	A	A
3	A	A	A	A	A	A
6	N	N	A	A	A	A

A = Available

N = Not Available

Electrical/Environmental Specifications	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
	Equivalent Series Resistance (ESR), Max.	
	Fundamental (AT-cut)	
	10.000 to 12.999 MHz	80 Ω Max.
	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 Ω Max.
	Third Overtones (AT-cut)	
	40.000 to 150.000 MHz	50 Ω Max.
	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

* 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.

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

MtronPTI Lead Free Solder Profile

