

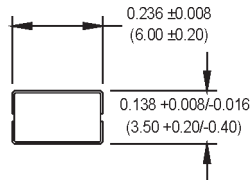
# PR Series

## 3.5 x 6.0 x 1.0 mm Surface Mount Crystals

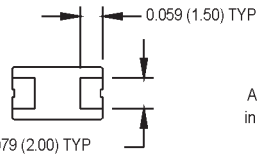
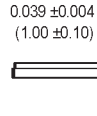


- Miniature low profile
- RoHS compliant
- Wide operating range
- PCMCIA - high density PCB assemblies

# OBSOLETE

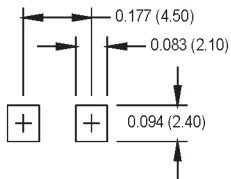


ACTUAL SIZE



All dimensions in inches (mm).

### SUGGESTED SOLDER PAD LAYOUT



Ordering Information		00.0000 MHz
Product Series	PR 1 M M XX	
Temperature Range	0°C to +70°C, -20°C to +40°C, -20°C to +85°C (AT)	
Tolerance	G: ±120 ppm, H: ±125 ppm, J: ±30 ppm, M: ±50 ppm	
Stability	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)		

M1005Sxxx - Contact factory for datasheet.

Note: Not all combinations of stability and operating temperature are available.

	PARAMETERS	VALUE
Electrical/Environmental Specifications	Frequency Range*	12.000 to 100.000 MHz
	Tolerance @ +25°C	See ordering information
	Stability	See ordering information
	Aging	±5 ppm/yr Max
	Shunt Capacitance	7 pF Max.
	Load Capacitance	18 pF Std.
	Standard Operating Conditions	-20°C to +70°C
	Storage Temperature	-40°C to +85°C
	Equivalent Series Resistance (ESR), Max.	
	Fundamental (AT-cut)	
	12.000 to 40.000 MHz	60 Ω
	Third Overtones (AT-cut)	
	40.000 to 100.000 MHz	60 Ω
	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	

# MtronPTI Lead Free Solder Profile

