

# PJ Surface Mount Crystals

## 5.5 x 11.7 x 2.2 mm



### Ordering Information

Product Series: PJ 1 P P XX MHz

Temperature Range:  
 1: -10°C to +70°C    2: -40°C to +85°C  
 3: -10°C to +60°C    6: -20°C to +70°C

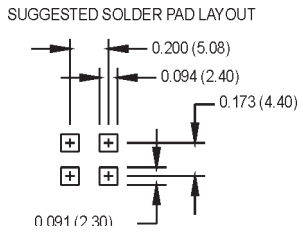
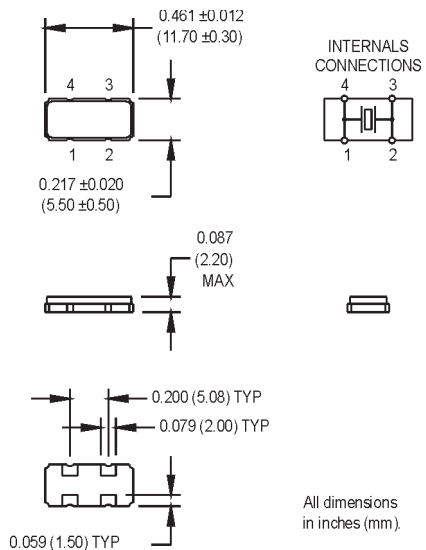
Tolerance:  
 J: ±30 ppm    M: ±50 ppm  
 P: ±100 ppm

Stability:  
 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)

M1013Sxxx - Contact factory for datasheet.



	PARAMETERS	VALUE
Electrical Specifications	Frequency Range*	3.579545 to 30.000 MHz
	Tolerance @ +25°C	See Table
	Stability	See Table
	Aging	±5 ppm/yr. Max.
	Shunt Capacitance	7 pF Max.
	Load Capacitance	18 pF Std.
	Standard Operating Conditions	See Table
	Equivalent Series Resistance (ESR), Max. Fundamental (AT-cut)	
	3.579 to 3.999 MHz	200 Ω
	4.000 to 7.999 MHz	150 Ω
8.000 to 9.999 MHz	100 Ω	
10.000 to 19.999 MHz	80 Ω	
20.000 to 30.000 MHz	50 Ω	
Drive Level		100 μW Max., 50 μW Typ., 10 μW Min.
Environmental	Mechanical Shock	MIL-STD-202, Method 213, C
	Vibration	MIL-STD-202, Method 201 & 204
	Thermal Cycle	MIL-STD-883, 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 specific frequencies.

# MtronPTI Lead Free Solder Profile

