

# PMX Surface Mount Crystals

## 5.0 x 7.0 x 1.2 mm



Ordering Information		00.000 MHz
Product Series	PMX	
Temperature Range	1	
Tolerance	J	
Stability	J	
Load Capacitance	XX	

**Temperature Range**  
 1: 0°C to +70°C    2: -40°C to +85°C  
 3: -10°C to 60°C    6: -20°C to +70°C

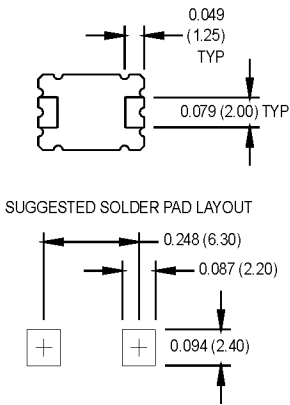
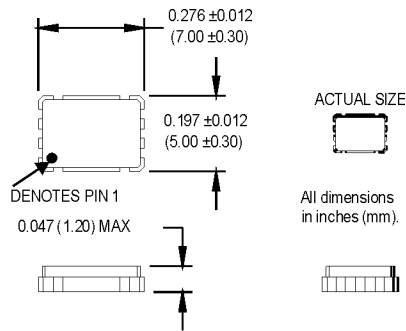
**Tolerance**  
 G: ±20 ppm\*    J: ±30 ppm  
 M: ±50 ppm    P: ±100 ppm

**Stability**  
 G: ±20 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)**

\*±20 ppm stability available over -10°C to +60°C operating temperature only



### Electrical Specifications

PARAMETERS	VALUE
Frequency Range*	9.800 to 100.000 MHz
Tolerance @ +25°C	See Table Above
Stability	See Table Above
Aging	±5 ppm/yr. Max.
Shunt Capacitance	7 pF Max.
Load Capacitance	18 pF Std.
Standard Operating Conditions	0°C to +70°C
Equivalent Series Resistance (ESR), Max.	
Fundamental (AT-cut)	
9.800 to 12.000 MHz	80 Ω
12.000 to 40.000 MHz	50 Ω
Third Overtones (AT-cut)	
40.000 to 100.000 MHz	80 Ω
Drive Level	100 μW Max.
Mechanical Shock	MIL-STD-202, Method 213, C
Vibration	MIL-STD-202, Method 201 & 204
Solder Conditions <sup>1</sup>	240°C for 10 seconds max.
Thermal Cycle	MIL-STD-883, Method 1010, B

\* 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.  
<sup>1</sup> See soldering conditions, Figure "2".