

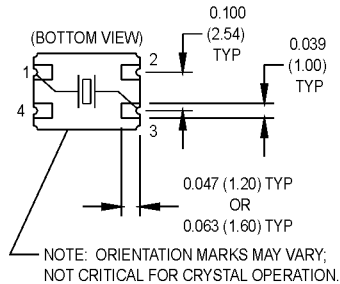
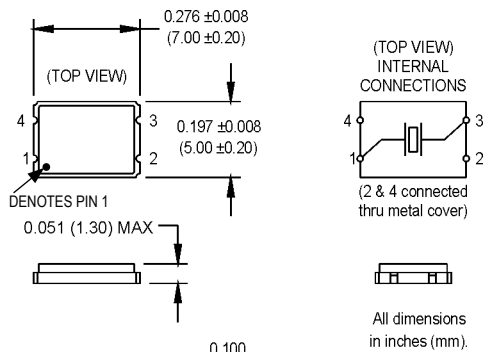
PM Surface Mount Crystals

5.0 x 7.0 x 1.3 mm

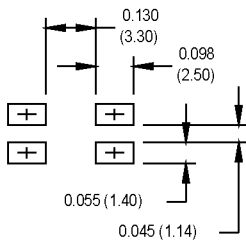


Ordering Information

Product Series	PM	1	M	M	XX	00.0000 MHz
Temperature Range	1: 0°C to +70°C 2: -40°C to +85°C 3: -55°C to +105°C 4: -55°C to +125°C 5: -10°C to +85°C 6: -20°C to +70°C					
Tolerance	D: ±10 ppm F: ±15 ppm G: ±20 ppm H: ±25 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)						



SUGGESTED SOLDER PAD LAYOUT



Available Stabilities vs. Temperature

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

A = Available S = Standard
N = Not Available

Electrical/Environmental Specifications	PARAMETERS		VALUE
	Frequency Range*		9.500 to 150.000 MHz
	Tolerance @ +25°C		See Table Above
	Stability		See Table Above
	Aging		±5 ppm/yr Max
	Shunt Capacitance		5 pF Max.
	Load Capacitance		See ordering information
	Standard Operating Conditions		See Table Above
	Equivalent Series Resistance (ESR), Max.		
	Fundamental (AT-cut)		
	9.5000 to 10.999 MHz		60 Ω
	11.000 to 13.999 MHz		50 Ω
	14.000 to 15.999 MHz		40 Ω
	16.000 to 40.500 MHz		30 Ω
	Third Overtones (AT-cut)		
	35.000 to 39.999 MHz		100 Ω
	40.000 to 49.999 MHz		80 Ω
	50.000 to 90.000 MHz		100 Ω
	Fifth Overtones (AT-cut)		
	90.000 to 150.000 MHz		100 Ω
	Drive Level		100 μW Max.
	Mechanical Shock		MIL-STD-202, Method 213, C
	Vibration		MIL-STD-202, Method 201 & 204
	Thermal Cycle		MIL-STD, 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.

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.

Revision: 02-28-07

MtronPTI Lead Free Solder Profile

