



M1620 Series 1.6 x 2.0 mm Surface Mount Crystal

FEATURES

Leadless Ceramic package
Tape and Reel
Low Profile (0.5 mm Height)
Fully RoHS 6 compliant

APPLICATIONS

Communications
IoT
Portable and wearable devices
Industrial and Instrumentation

ORDERING INFORMATION

M1620	2	J	M	XX	00.0000 MHz
Product Series					
Temperature Range 6: -20°C to +70°C H: -30°C to +85°C 2: -40°C to +85°C					
Tolerance D: ± 10 ppm J: ± 30 ppm G: ± 20 ppm					
Stability D: ± 10 ppm J: ± 30 ppm E: ± 15 ppm M: ± 50 ppm G: ± 20 ppm					
Load Capacitance XX: Customer Specified 6 pF to 32 pF Blank: 18 pF (standard)					
Frequency (Customer Specified)					

Example Part Number: M16202JM 20 .0000 MHz

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency Range	F ₀	16		80	MHz	
Frequency Tolerance	F/F	See Ordering Information			ppm	@ +25°C, see ordering information.
Frequency Stability	ΔF/F	See Ordering Information			ppm	Over the operating temperature range
Aging		-3		+3	ppm	1 st year
Load Capacitance		6		32	pF	Customer specified
Shunt Capacitance				3	pF	
ESR		See ESR Table				
Drive Level	DL			100	μW	
Insulation Resistance	IR	500			MΩ	100VDC

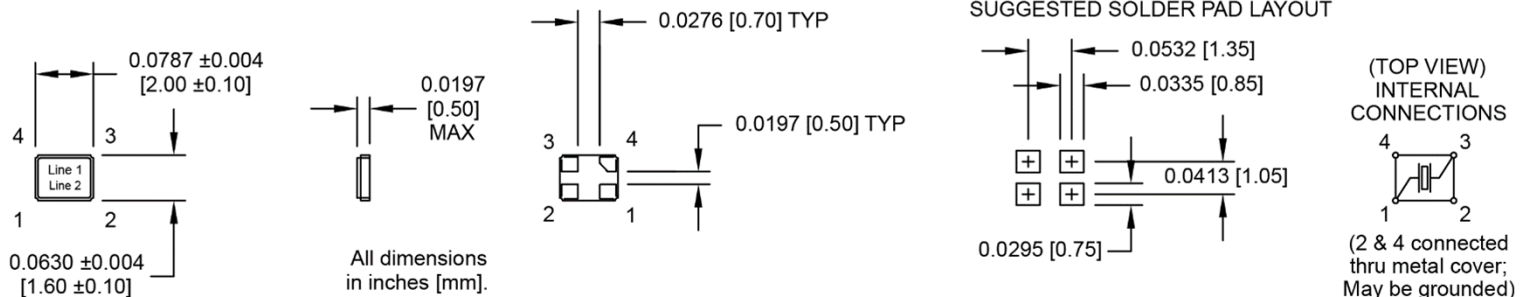
Temperature

Operating Temperature	T _A	See Ordering Information			°C	
Storage Temperature	T _S	-55		+125	°C	

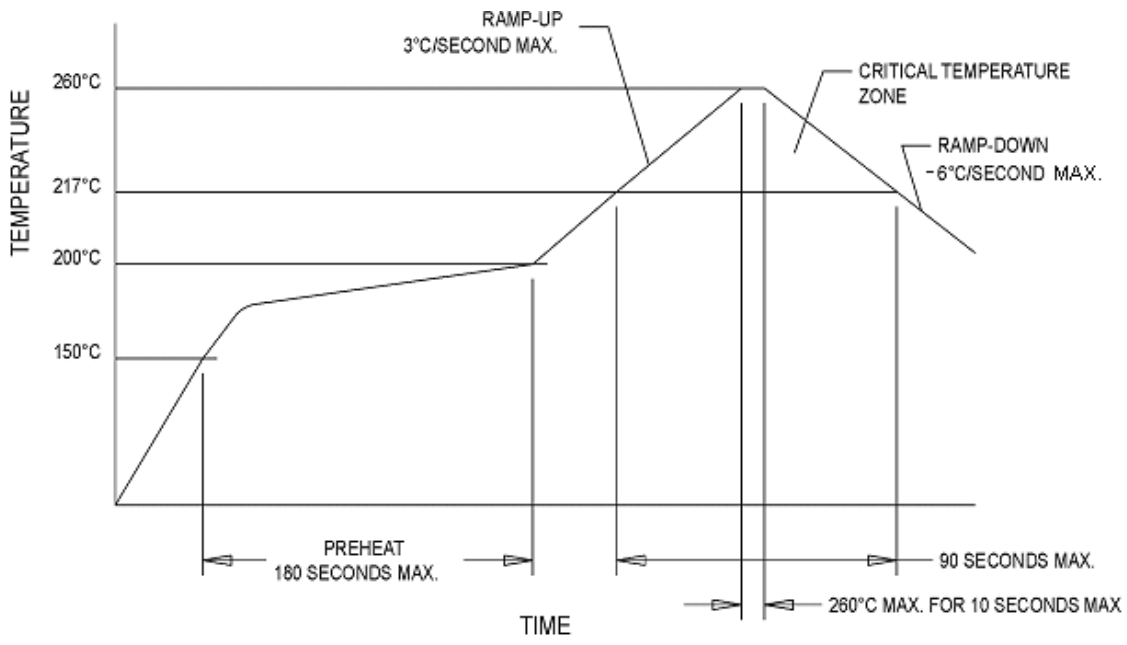
ESR Table

Frequency Range	ESR (MAX)
Fundamental (AT-cut)	
16 to 24 MHz	100 Ω
24 to 32 MHz	80 Ω
32 to 40 MHz	50 Ω
40 to 80 MHz	40 Ω

MECHANICAL AND PIN OUT INFORMATION



LEAD FREE SOLDER PROFILE



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.