M1253 Surface Mount Crystal 2.5 x 3.2 x 0.8 mm

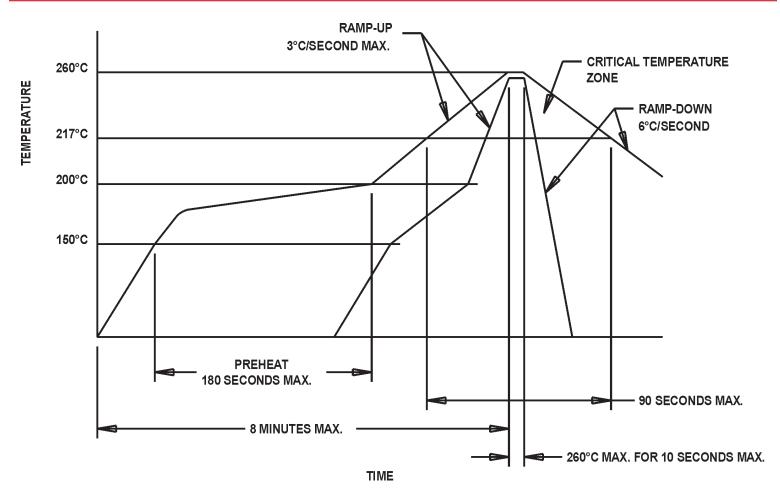


Features: **Ordering Information** Ultra-Miniature Size 00.0000 Tape & Reel M1253 6 . 1 Μ XX MHz Leadless Ceramic Package - Seam Sealed Product Series Applications: **Operating Temperature** Handheld Electronic Devices 1: -10°C to +70°C 3:-10°C to +60°C 2: -40°C to +85°C 6:-20°C to +70°C PDA, GPS, MP3 Tolerance @ +25°C Portable Instruments D: ±10 ppm J: ±30 ppm (std) E: ±15 ppm M: ±50 ppm PCMCIA Cards G: ±20 ppm P: ±100 ppm H: ±25 ppm Bluetooth Stability D: ±10 ppm J:±30 ppm E: ±15 ppm M:±50 ppm (std) G: ±20 ppm P: ±100 ppm H: ±25 ppm Load Capacitance Blank: 18 pF (std) S: Series Resonant XX: Customer Specified 8 pF to 32 pF Frequency (customer specified) 0.1260 ±0.008 M1253Sxxx - Contact factory for datasheet. (TOP VIEW) (3.20 ± 0.20) INTERNAL CONNECTIONS -0.0472 (1.20) TYP SUGGESTED SOLDER PAD LAYOUT 4 3 0.0984 ±0.008 -0.0354 (0.90) TYP -0.0945 (2.40) -111- (2.50 ± 0.20) 0.0315 (0.80) TYP -0.0511 (1.30) 2 1 -0.0276 (0.70) TYP (2 & 4 connected thru metal cover) Г + + 0.0709 (1.80) OR 0.0315 (0.80) MAX-+ +All dimensions 0.0472 (1.20) CHAMFER MAY VARY in inches (mm). Conditions Symbol Min. Units Parameter Тур. Max. **Frequency Range** F 12 54 MHz **Frequency Tolerance** F/F See Ordering Information +25°C ppm Frequency Stability F/F See Ordering Information Over Operating Temperature ppm Specifications T_{opr} See Ordering Information **Operating Temperature** °C T_{stg} Storage Temperature -55 +125 °С Aging F۵ ±5 ppm/yr +25°C Load Capacitance CL See Ordering Information Shunt Capacitance 3 C_0 pF Electrical ESR **Fundamental AT-Cut Frequencies** 13.000000 to 19.999999 MHz All 80 Ohms 20.000000 to 29.999999 MHz 70 Ohms All 30.000000 to 54.000000 MHz 50 Ohms All **Drive Level** 100 300 D 10 μW Insulation Resistance 500 Megohms 100 VDC I_{B} Aging Internal Specification 168 hrs. at +55°C Physical Dimensions MIL-STD-883, Method 2016 Environmental Shock MIL-STD-202, Method 213 Condition C 100 g Vibration MIL-STD-202, Methods 201 & 204 10 g from 10-2000 Hz -55°C to +125°C **Thermal Cycle** MIL-STD-883, Method 1010, Condition B Gross Leak MIL-STD-202, Method 112 30 sec. Immersion Fine Leak MIL-STD-202, Method 112 1 x 10⁻⁸ atmcc/sec. min. **Resistance to Solvents** MIL-STD-883, Method 2015 Three 1 minute soaks Max Soldering Conditions See solder profile, Figure 1

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MtronPTI Lead Free Solder Profile



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