## M1254 Surface Mount Crystal 2.5 x 4.0 x 0.75 mm



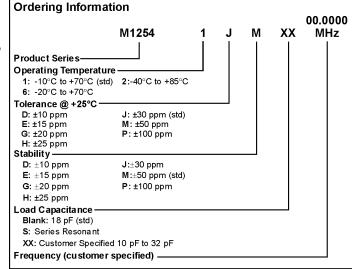
## Features:

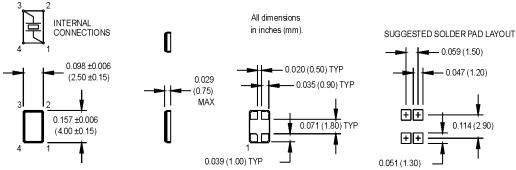
- Ultra-Miniature Size
- Tape & Reel
- · Leadless Ceramic Package Seam Sealed
- RoHS Compliant

## **Applications:**

- · Handheld Electronic Devices
- PDA, GPS, MP3
- Portable Instruments
- PCMCIA Cards







Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency Range	F	12		32	MHz	
Frequency Tolerance	F/F	See Ordering Information ppm			ppm	+25°C
Frequency Stability	F/F	See Ordering Information ppm			ppm	Over Operating Temperature
Operating Temperature	T <sub>opr</sub>	See Ordering Information °C			°C	
Storage Temperature	$T_{stg}$	-55		+125	°C	
Aging	Fa			±2	ppm/yr	+25°C
Load Capacitance	$C_L$					See Ordering Information
Shunt Capacitance	$C_0$			3	pF	
ESR						
Fundamental AT-Cut Frequencies 12.000000 to 19.999999 MHz 20.000000 to 25.999999 MHz 26.000000 to 32.000000 MHz				80 70 50	Ohms Ohms Ohms	All All All
Drive Level	$D_L$	10	100	300	μW	
Insulation Resistance	I <sub>R</sub>	500			Megohms	100 VDC
Aging	Internal Specification					168 hrs. at +55°C
Physical Dimensions	MIL-STD-883, Method 2016					
Shock	MIL-STD-202, Method 213 Condition C					100 g
Vibration	MIL-STD-202, Methods 201 & 204					10 g from 10-2000 Hz
Thermal Cycle	MIL-STD-883, Method 1010, Condition B					-55°C to +125°C
Gross Leak	MIL-STD-202, Method 112					30 sec. Immersion
Fine Leak	MIL-STD-202, Method 112					1 x 10 <sup>-18</sup> atmcc/sec. min.
Resistance to Solvents	MIL-STD-883, Method 2015					Three 1 minute soaks
Maximum Soldering Conditions	MIL-STD-202, Method 210, Condition C					Pb Free = +260°C for 10 secs. max

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.