## M1253 Surface Mount Crystal 2.5 x 3.2 x 0.8 mm



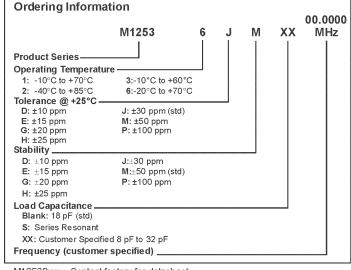
## Features:

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

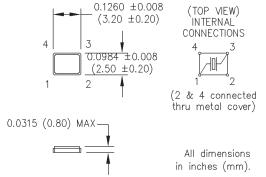
## **Applications:**

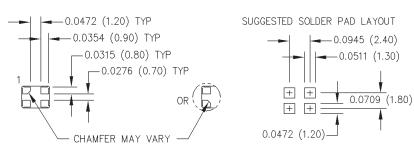
- · Handheld Electronic Devices
- PDA, GPS, MP3
- Portable Instruments
- PCMCIA Cards
- Bluetooth





M1253Sxxx - Contact factory for datasheet.





	Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Electrical Specifications	Frequency Range	F	12		54	MHz	
	Frequency Tolerance	F/F	See Ordering Information p			ppm	+25°C
	Frequency Stability	F/F	See Ordering Information			ppm	Over Operating Temperature
	Operating Temperature	$T_{opr}$	See Ordering Information			°C	
	Storage Temperature	$T_{stg}$	-55		+125	°C	
	Aging	$F_a$			±5	ppm/yr	+25°C
	Load Capacitance	$C_L$					See Ordering Information
	Shunt Capacitance	$C_0$			3	pF	
	ESR						
	Fundamental AT-Cut Frequencies 13.000000 to 19.999999 MHz 20.000000 to 29.999999 MHz 30.000000 to 54.000000 MHz				80 70 50	Ohms Ohms Ohms	All All
	Drive Level	$D_L$	10	100	300	μW	
	Insulation Resistance	I <sub>R</sub>	500			Megohms	100 VDC
Environmental	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>-8</sup> atmcc/sec. min.	
	Resistance to Solvents	MIL-STD-883, Method 2015				Three 1 minute soaks	
	Max Soldering Conditions	See solder profile, Figure 1					

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.





