M1254 Surface Mount Crystal 2.5 x 4.0 x 0.75 mm

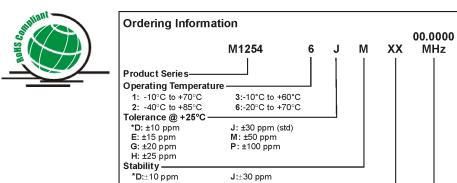


Features:

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

Applications:

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



M:±50 ppm (std) P: ±100 ppm

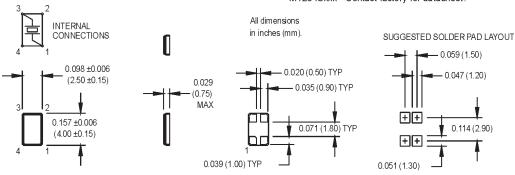
*Consult Factory

E: ±15 ppm

G: ±20 ppm H: ±25 ppm Load Capacitance – Blank: 18 pF (std) S: Series Resonant

M1254Sxxx - Contact factory for datasheet.

XX: Customer Specified 10 pF to 32 pF Frequency (customer specified) ——



	Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Electrical Specifications	Frequency Range	F	12		32	MHz	
	Frequency Tolerance	F/F	See Ordering Information			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	Fa			±2	ppm/yr	+25°C
	Load Capacitance	CL					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	DL	10	100	300	μW	
	Insulation Resistance	I _R	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 ⁻⁸ atmcc/sec. min.
	Resistance to Solvents	MIL-STD-883, Method 2015				Three 1 minute soaks	
	Maximum Soldering Conditions	See solder profiles, 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.





