

M1253 Surface Mount Crystal

2.5 x 3.2 x 0.65 mm



Features:

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

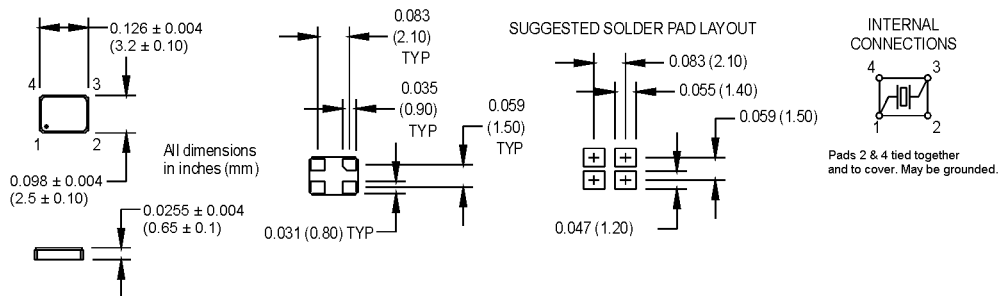


Applications:

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

Ordering Information

	M1253	6	J	M	XX	00.0000
Product Series						
Operating Temperature	3:-10°C to +60°C					
	2: -40°C to +85°C					
	6: -20°C to +70°C					
Tolerance @ +25°C						
	D: ±10 ppm		J: ±30 ppm (std)			
	E: ±15 ppm		M: ±50 ppm			
	G: ±20 ppm		P: ±100 ppm			
	H: ±25 ppm					
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)						



	Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Electrical Specifications	Frequency Range	F	13		54	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	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			80	Ohms	All
		20.000000 to 29.999999 MHz			70	Ohms	All
	30.000000 to 54.000000 MHz			50	Ohms	All	
	Drive Level	D _L	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	

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Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.

MtronPTI Lead Free Solder Profile

