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XL-1CE Surface Mount Crystal Resonators



Description:

The Connor-Winfield XL-1CE crystal resonator is a fundamental AT-cut crystal for use in many crystal applications. It is available in a 7.62x5.08mm hermetic ceramic package.

Features:

- Fundamental AT-cut Crystal
- Frequency Tolerance ± 100 ppm
- Surface Mount Package
- RoHS Compliant / Lead Free

Absolute Maximum Ratings

Parameter	Minimum	Nominal	Maximum	Units	Notes
Storage Temperature	-55	-	125	$^{\circ}\text{C}$	

** Not all frequencies are available at Digi-Key

Electrical Specifications

Parameter	Minimum	Nominal	Maximum	Units	Notes
Frequency Range	8	-	40	MHz	
Frequency Tolerance	-	± 100	-	ppm	1
1st Year Aging	-	-	± 5	ppm	
Operating Temperature Range	-40	-	85	$^{\circ}\text{C}$	
Shunt Capacitance	-	-	7	pF	
Equivalent Series Resistance	See table below				
Load Capacitance	See table below				
Drive Level		0.1		mW	Typical
Shock Resistance			± 5	ppm	2
Vibration Resistance			± 5	ppm	3
Insulation Resistance	500	-	-	M Ohm	@100Vdc ± 15 Vdc

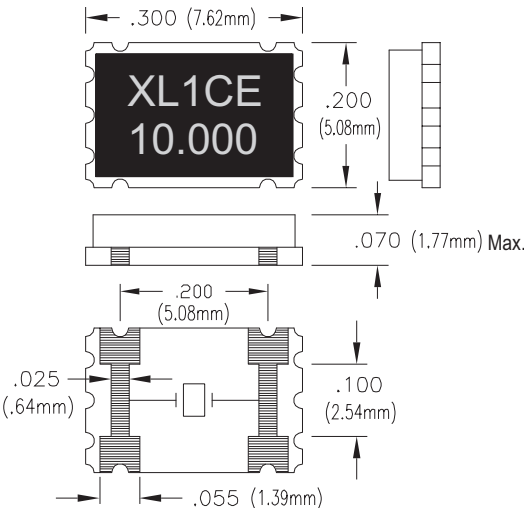
Notes:

- Inclusive of calibration and temperature
- Shock Test Standard: 3 times from 75cm height onto a hard wooden board.
- Vibration Test Standard: 10 to 500Hz, Amplitude: 1.5mm or 10G, whichever is smaller.

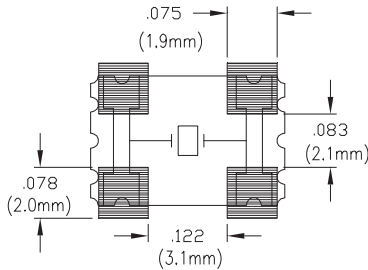
Frequency Range Table

Frequency range	Mode of Oscillation	E.S.R.	CL
8.000MHz to 15.999MHz	Fundamental	60 ohm Max	16pF
16.000MHz to 40.000MHz	Fundamental	40 ohm Max	16pF

Package Outline



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Solder Profile

