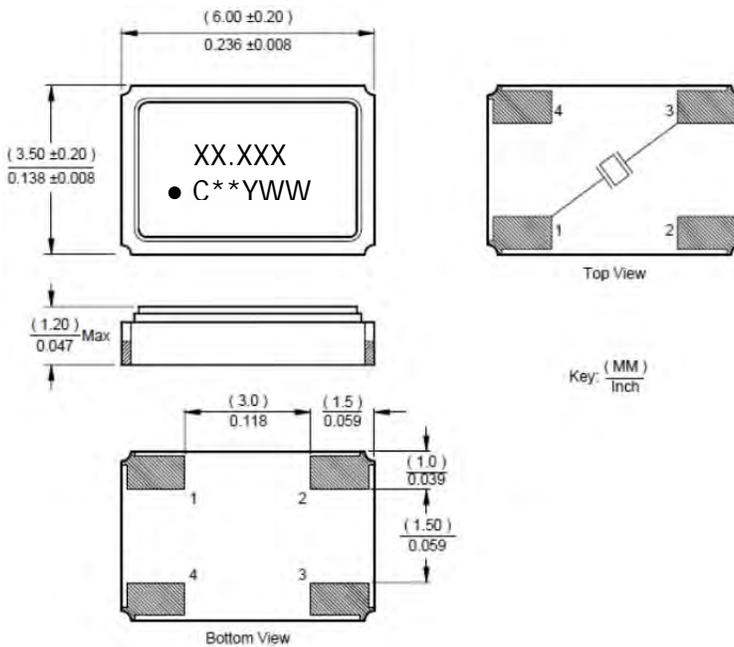


ELECTRICAL CHARACTERISTICS

PARAMETER		VALUE		
ELECTRICAL PARAMETERS	Frequency Range	6MHz to 40MHz	35MHz to 133MHz	
	Operating Mode	Fundamental	3rd Overtone	
	Crystal Cut	AT-Cut		
	Frequency Tolerance @ +25°C	±30ppm, Standard		
	Frequency Stability Tolerance [Operating Temperature Range, Referenced to +25°C Reading]	±30ppm, Standard		
	Operating Temperature Ranges	-20°C to +70°C		
		-30°C to +85°C	-40°C to +85°C	
	Equivalent Series Resistance - Fundamental Mode [Maximum]	6MHz - <10MHz	80 Ohms	
		10MHz - <14MHz	70 Ohms	
		15MHz - <20MHz	50 Ohms	
		20MHz - 40MHz	40 Ohms	
	Equivalent Series Resistance - 3rd Overtone Mode [Maximum]	35MHz - <44MHz	80 Ohms	
		44MHz - <50MHz	70 Ohms	
		50MHz - <80MHz	60 Ohms	
		80MHz - 133MHz	60 Ohms	
	Load Capacitance	See Ordering Information		
Shunt Capacitance [C ₀]	5.0pF Typical, 7.0pF Maximum			
Drive Level	10µW Typ., 200µW Max.			
Aging @ +25°C	±3ppm/yr Typical			
Insulation Resistance	500M Ohms @ DC 100V			
Storage Temperature Range	-40°C to +100°C			

MECHANICAL SPECIFICATIONS

PACKAGE DRAWING



MARKING INFORMATION

1. XX.XXX – Frequency marked with 3 significant digits after the decimal.
2. C – CTS identifier.
3. ** – Manufacturing Site code.
4. YWW – Date Code, Y – Last Digit of Year, WW – Week.

NOTES

1. Complete CTS part number, frequency value and date code information must appear on reel and carton labels.
2. Terminations #2, #4 and metal lid are connected internally and may be connected to ground for EMI suppression.
3. Termination pads (e4); barrier plating is nickel [Ni] with gold [Au] flash plate.
4. Reflow conditions per JEDEC J-STD-020; +260°C maximum, 10 seconds.
5. MSL = 1.

SUGGESTED SOLDER PAD GEOMETRY

