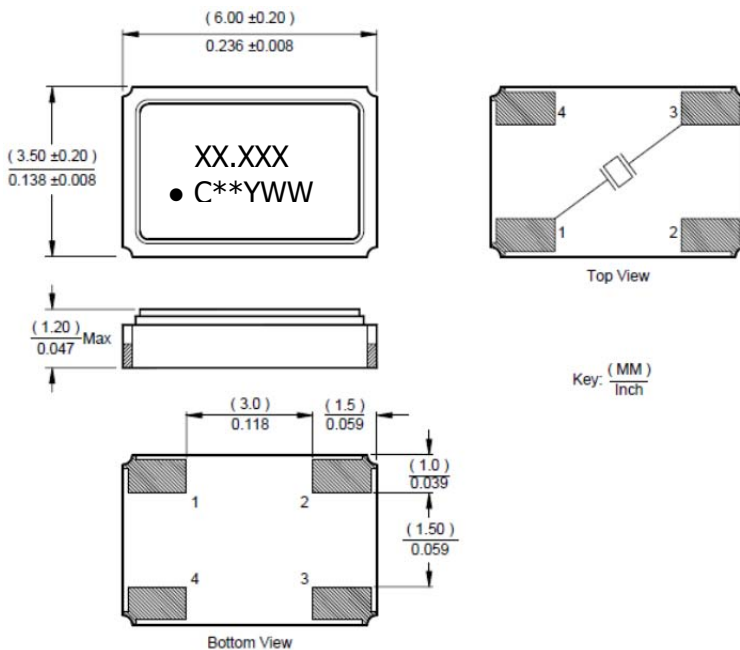


ELECTRICAL CHARACTERISTICS

ELECTRICAL PARAMETERS	PARAMETER	VALUE	
	Frequency Range		6MHz to 40MHz
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

