

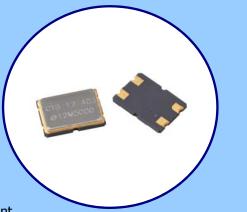




# SURFACE MOUNT QUARTZ CRYSTAL

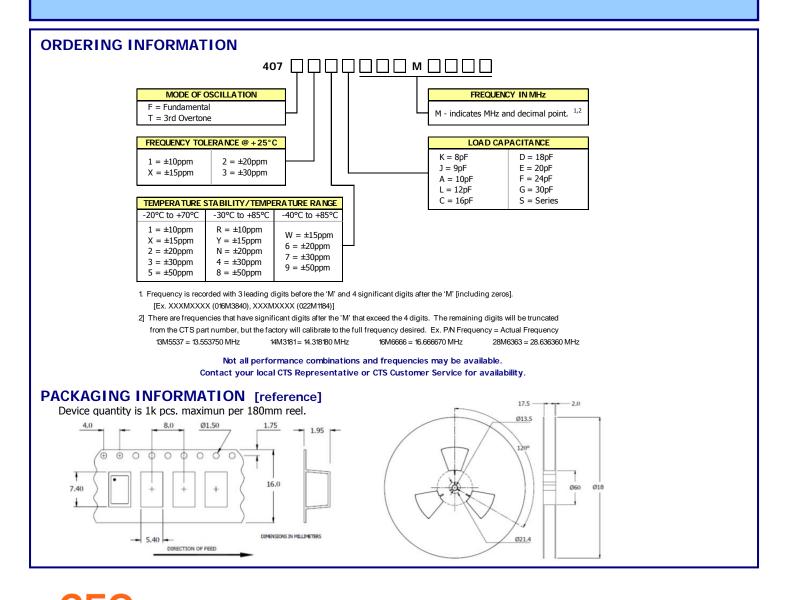
## **FEATURES**

- Standard 7.0mm x 5.0mm Ceramic Surface Mount Package
- Fundamental and 3<sup>rd</sup> Overtone Crystal Design
- Frequency Range 6 133MHz
- Frequency Tolerance, ±30ppm Standard
- Frequency Stability, ±50ppm Standard
- Operating Temperature to -40°C to +85°C
- Stable Frequency Over Temperature and Drive Level
- Tape & Reel Packaging Standard, EIA-481
- RoHS/Green Compliant [6/6]



## **APPLICATIONS**

Model 407 is a seam sealed ceramic packaged quartz resonator offering excellent performance for a wide variety of applications including; wireless communications, broadband access, WLAN/WiMax/WIFI, test and measurement, portable equipment and computer peripherals.



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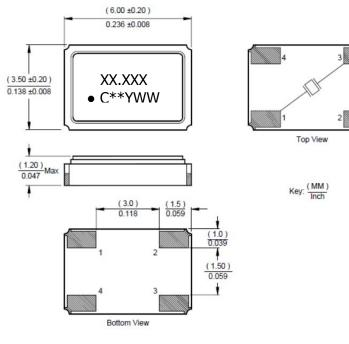


## **ELECTRICAL CHARACTERISTICS**

	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 <sub>0</sub> ]	5.0pF Typical, 7.0pF Maximum	
	Drive Level	10µW Тур., 200µW Мах.	
	Aging @ +25°C	±3ppm/yr Typical	
	Insulation Resistance	500M Ohms @ DC 100V	
	Storage Temperature Range	-40°C to +100°C	

## MECHANICAL SPECIFICATIONS

### PACKAGE DRAWING



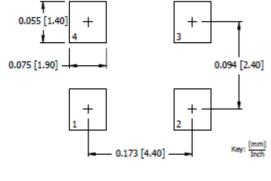
#### MARKING INFORMATION

- 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



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