





SURFACE MOUNT QUARTZ CRYSTAL

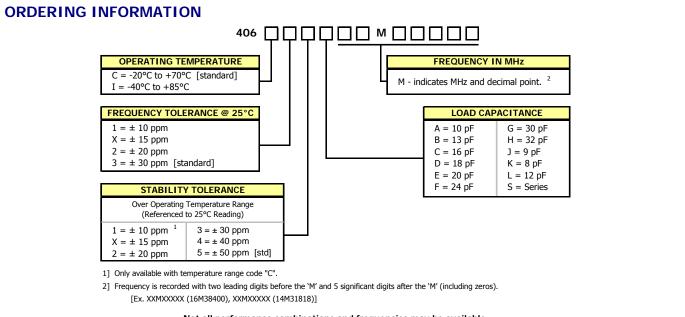
FEATURES

- Standard 6.0mm x 3.5mm Ceramic Surface Mount Package
- Fundamental Crystal Design
- Frequency Range 8 50 MHz
- Frequency Tolerance, ±30 ppm Standard [other tolerances available]
- Frequency Stability, ±50 ppm Standard [other stabilities available]
- 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

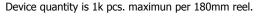
The Model 406 is a seam sealed ceramic packaged crystal offering reduced size, ideal

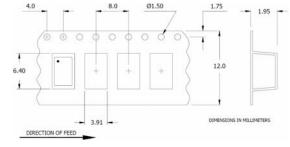
for high-density circuit board applications. M406 offers reliable precision and excellent shock performance suitable for wireless communications, broadband access, WLAN/WiMax/WIFI, portable equipment, test and measurement, PCMCIA, computers and modems.



Not all performance combinations and frequencies may be available. Contact your local CTS Representative or CTS Customer Service for availability.

PACKAGING INFORMATION [reference]





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ELECTRICAL CHARACTERISTICS

	PARAMETER	VALUE
ELECTRICAL PARAMETERS	Frequency Range	8.0 MHz to 50.0 MHz
	Operating Mode	Fundamental
	Crystal Cut	AT-Cut
	Frequency Tolerance @ 25°C	± 30 ppm standard
		$[\pm 10 \text{ ppm}, \pm 15 \text{ ppm and } \pm 20 \text{ ppm Available}]$
	Frequency Stability Tolerance	± 50 ppm standard
	[Operating Temperature Range, Referenced to 25°C Reading]	[\pm 10 ppm, \pm 15 ppm, \pm 20 ppm, \pm 30 ppm and \pm 40 ppm Available]
	Operating Temperature Range	-20°C to +70°C
		-40°C to +85°C
	Equivalent Series Resistance	See ESR Table
	Load Capacitance or Resonance Mode	See Ordering Information
	Shunt Capacitance (C_0)	4.0 pF typical
		7.0 pF maximum
	Drive Level	10 μW typical
		100 μW maximum
	Aging @ +25°C	±3 ppm/yr typical
		±5 ppm/yr maximum
	Insulation Resistance	500M Ohms @ 100V _{DC} ±15V _{DC}
	Storage Temperature Range	-55°C to +125°C
	Reflow Condition, per JEDEC J-STD-020	+260°C maximum, 10 Seconds maximum

EQUIVALENT SERIES RESISTANCE TABLE

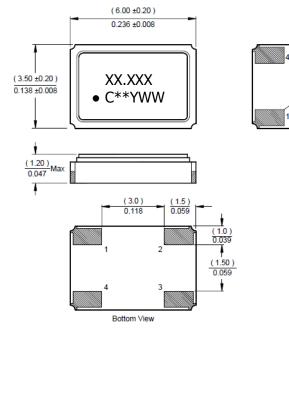
FREQUENCY RANGE	MODE of OSCILLATION	ESR Maximum
8.00 MHz - 9.999 MHz	Fundamental	80 Ohms
10.00 MHz - 15.999 MHz	Fundamental	60 Ohms
16.000 MHz - 50.000 MHz	Fundamental	40 Ohms

Top View

Key: (MM) Inch

MECHANICAL SPECIFICATIONS

PACKAGE DRAWING



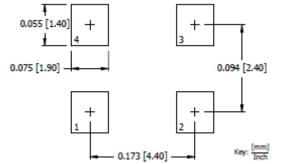
MARKING INFORMATION

- 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. Termination pads (e4); barrier plating is nickel (Ni) with gold (Au) flash plate.
- Terminations #2, #4 and metal lid are connected internally and may be connected to ground for EMI suppression.
- 4. MSL = 1.

SUGGESTED SOLDER PAD GEOMETRY



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