

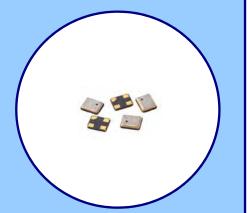




# SURFACE MOUNT QUARTZ CRYSTAL

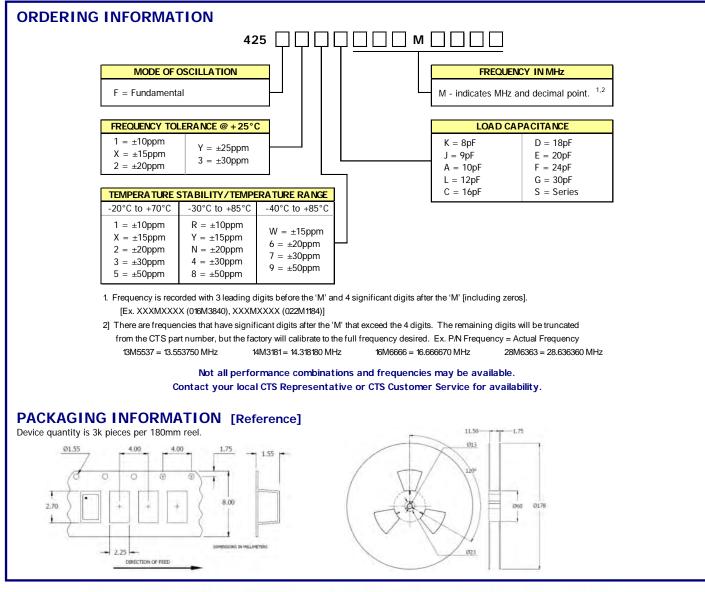
## **FEATURES**

- Standard 2.5mm x 2.0mm Seam Weld Package
- Fundamental Crystal Design
- Frequency Range 12 60MHz
- Frequency Tolerance, ±20ppm Standard
- Frequency Stability, ±20ppm Standard
- Operating Temperature to -40°C to +85°C
- Tape & Reel Packaging Standard, EIA-481
- RoHS/Green Compliant [6/6]



## **APPLICATIONS**

Model 425 is a low cost quartz resonator used in a wide range of commercial applications including wearable and handheld electronics, notebooks, tablets, computer peripherals, Bluetooth, ZigBee and USB interfaces.



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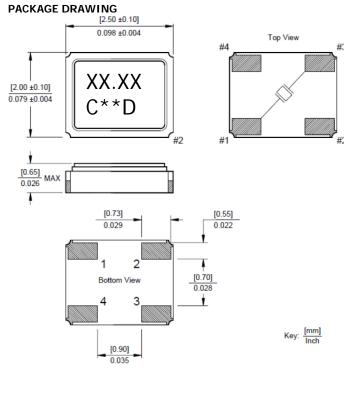
18924600166 QQ: 857950243 <u>http://www.vc-tcxo.com</u>



## **ELECTRICAL CHARACTERISTICS**

[	PARAMETER	VALUE	
ELECTRICAL PARAMETERS	Frequency Range	12MHz to 60MHz	
	Operating Mode	Fundamental	
	Crystal Cut	AT-Cut	
	Frequency Tolerance @ +25°C	±20ppm, Standard	
	Frequency Stability Tolerance [Operating Temperature Range, Referenced to +25°C Reading]	±20ppm, Standard	
	Operating Temperature Ranges	-20°C to +70°C	
		-30°C to +85°C	-40°C to +85°C
	Equivalent Series Resistance [Maximum]	12MHz - <20MHz	120 Ohms
		20MHz - <30MHz	80 Ohms
		30MHz - <36MHz	60 Ohms
		36MHz - 60MHz	50 Ohms
	Load Capacitance	See Ordering Information	
	Shunt Capacitance [C <sub>0</sub> ]	3.0pF Typical, 5.0pF 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 +90°C	

## MECHANICAL SPECIFICATIONS



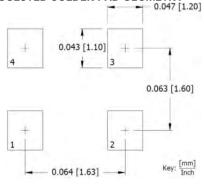
#### MARKING INFORMATION

- 1. XX.XX Frequency in MHz.
- 2. C CTS and Pin 1 identifier.
- 3. \*\* Manufacturing Site Code.
- 4. D Date code. See Table I for codes.

#### NOTES

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

### SUGGESTED SOLDER PAD GEOMETRY



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