

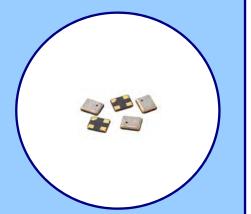


SURFACE MOUNT QUARTZ CRYSTAL

MODEL 425

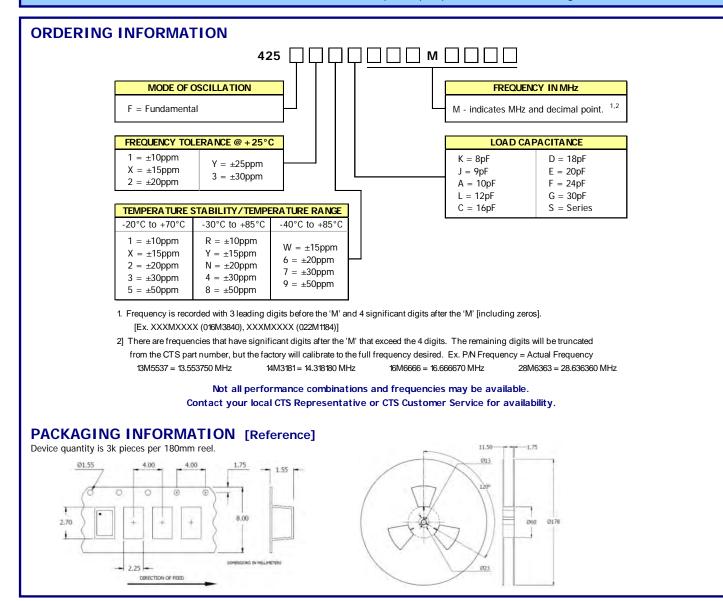
FEATURES

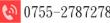
- Standard 2.5mm x 2.0mm Seam Weld Package
- Fundamental Crystal Design
- Frequency Range 12 60MHz
- Frequency Tolerance, ±20ppm Standard
- Frequency Stability, ±20ppm Standard
- Operating Temperature to -40°C to +85°C
- Tape & Reel Packaging Standard, EIA-481
- RoHS/Green Compliant [6/6]



APPLICATIONS

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





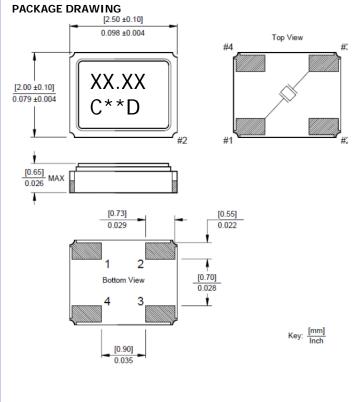




ELECTRICAL CHARACTERISTICS

[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 ₀]	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

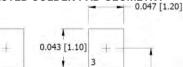
- 1. XX.XX Frequency in MHz.
- 2. C CTS and Pin 1 identifier.
- 3. ** Manufacturing Site Code.
- 4. D Date code. See Table I for codes.

NOTES

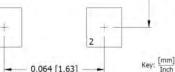
- 1. Complete CTS part number, frequency value, date code and manufacturing site code information must appear on reel and carton labels
- 2. Terminations #2, #4 and the metal lid are connected internally. End user may connect these pins to circuit ground for EMI suppression.
- 3. Termination pads (e4); barrier plating is nickel [Ni] with gold [Au] flash plate.
- Reflow conditions per JEDEC J-STD-020; +260°C maximum, 10 4. seconds.
- MSL = 1.5.

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SUGGESTED SOLDER PAD GEOMETRY









MONTH JUN NOV JAN FEB MAR APR MAY JUL AUG SEP ост DEC YEAR 2017 С D 2001 2005 2009 2013 А В Е F G Н J Κ L Μ 2002 2006 2010 2014 2018 Ν Ρ Q S Т U ٧ Х Y R W Ζ 2003 2007 2011 2015 2019 d k b f h Т а С е g m 2004 2008 2012 2016 2020 v z n р q r s t u w х ν



TABLE I – DATE CODE