

MODEL 405



SURFACE MOUNT QUARTZ CRYSTAL

FEATURES

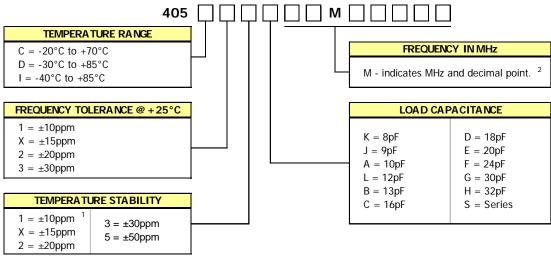
- Standard 5.0mm x 3.2mm Seam Weld Package
- Fundamental Crystal Design
- Frequency Range 6.76438 54MHz
- Frequency Tolerance, ±30ppm Standard
- Frequency Stability, ±30ppm Standard
- Operating Temperature to -40°C to +85°C
- Stable Frequency Over Temperature and Drive Level
- Tape & Reel Packaging Standard, EIA-481
- RoHS/Green Compliant [6/6]

APPLICATIONS

Model 405 is a low cost quartz resonator used in a wide range of commercial applications including WLAN/WiMax/WiFi, A/V, Bluetooth, ZigBee and USB interfaces, notebooks, computer peripherals and portable equipment.

applications

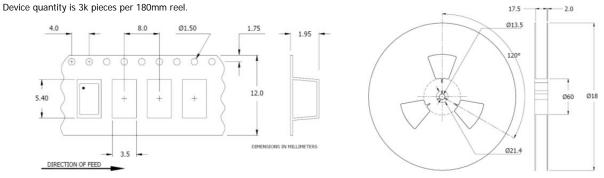
ORDERING INFORMATION



- 1. Available with temperature range codes C and D.
- 2. Frequency is recorded with two leading digits before the 'M' and 5 significant digits after the 'M' [including zeros]. [Ex. XXMXXXXX (16M38400), XXMXXXXX (14M31818)]

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

PACKAGING INFORMATION [Reference]



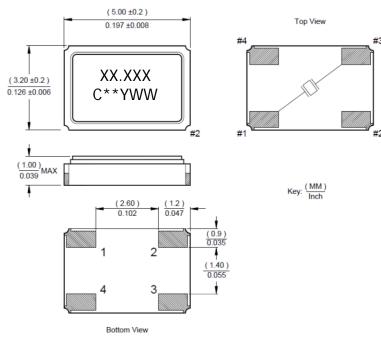


ELECTRICAL CHARACTERISTICS

	PARAMETER	VALUE	
ELECTRICAL PARAMETERS	Frequency Range	6.76438MHz to 54MHz	
	Operating Mode	Fundamental	
	Crystal Cut	AT-Cut	
	Frequency Tolerance @ +25°C	±30ppm, Standard	
	Frequency Stability Tolerance	±30ppm, Standard	
	[Operating Temperature Range, Referenced to +25°C Reading]		
	Operating Temperature Ranges	-20°C to +70°C	
		-30°C to +85°C	-40°C to +85°C
	Equivalent Series Resistance [Maximum]	6.76438MHz - <11MHz	80 Ohms
		11MHz - <15MHz	60 Ohms
		15MHz - <35MHz	50 Ohms
		35MHz - 54MHz	40 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



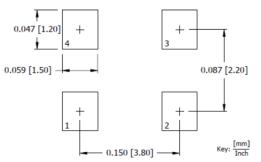
MARKING INFORMATION

- XX.XXX Frequency marked with 3 significant digits after the decimal.
- 2. C CTS and Pin 1 identifier.
- 3. ** Manufacturing Site Code.
- 4. YWW Date Code; Y Last Digit of Year, WW Week.

NOTES

- 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 seconds.
- 5. MSL = 1.

SUGGESTED SOLDER PAD GEOMETRY



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