

MODEL 406



SURFACE MOUNT QUARTZ CRYSTAL

FEATURES

- Standard 6.0mm x 3.5mm Ceramic Surface Mount Package
- Fundamental Crystal Design
- Frequency Range 8 52MHz
- 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 406 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.

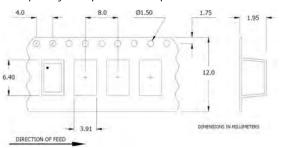
ORDERING INFORMATION TEMPERATURE RANGE FREQUENCY IN MHz $C = -20^{\circ}C$ to $+70^{\circ}C$ D = -30°C to +85°C M - indicates MHz and decimal point. I = -40°C to +85°C FREQUENCY TOLERANCE @ +25°C LOAD CAPACITANCE $1 = \pm 10$ ppm K = 8pFD = 18pF $X = \pm 15ppm$ J = 9pFE = 20pF $2 = \pm 20ppm$ A = 10pFF = 24pF $3 = \pm 30$ ppm L = 12pFG = 30pFH = 32pFB = 13pFTEMPERATURE STABILITY C = 16pFS = Series $1 = \pm 10$ ppm $3 = \pm 30$ ppm $X = \pm 15ppm$ $5 = \pm 50$ ppm $2 = \pm 20ppm$

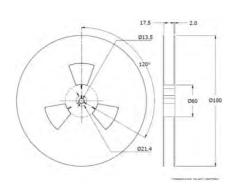
- 1. Available with temperature range codes C and D.
- 2. Frequency is recorded with two leading digits before the 'M' and 5 significant digits after the 'M' [including zeros]. [Ex. XXMXXXXX (16M38400), XXMXXXXX (14M31818)]

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

PACKAGING INFORMATION [reference]

Device quantity is 1k pcs. maximun per 180mm reel.





SHENZHEN YIJIN ELECTRONICS CO: LTD TEL: 0755-27876565

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

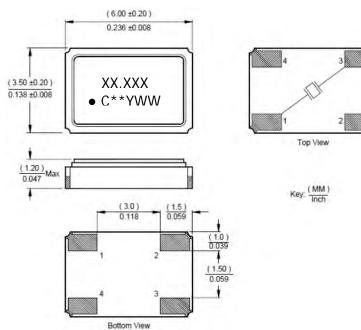


ELECTRICAL CHARACTERISTICS

	PARAMETER	VALUE	
ELECTRICAL PARAMETERS	Frequency Range	8MHz to 52MHz	
	Operating Mode	Fundamental	
	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 [Maximum]	8MHz - <10MHz	70 Ohms
		10MHz - <20MHz	55 Ohms
		20MHz - <35MHz	45 Ohms
		35MHz - 54MHz	35 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



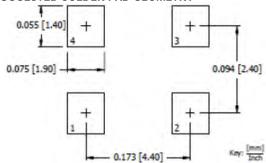
MARKING INFORMATION

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

NOTES

- 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.
- Reflow conditions per JEDEC J-STD-020; +260°C maximum, 10 seconds.
- 5. MSL = 1.

SUGGESTED SOLDER PAD GEOMETRY



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