





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 guartz 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.



WWW.CTSCORP.COM



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 Range, Referenced to +25°C Reading]	-20°C to +70°C	
	Operating Temperature Ranges	-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 Тур., 200µW Мах.	
	Aging @ +25°C	±3ppm/yr Typical	
	Insulation Resistance	500M Ohms @ DC 100V	
	Storage Temperature Range	-40°C to +100°C	

MECHANICAL SPECIFICATIONS

PACKAGE DRAWING





Top View

Key: (MM) Inch

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

SUGGESTED SOLDER PAD GEOMETRY

