

ATSSM4P SERIES

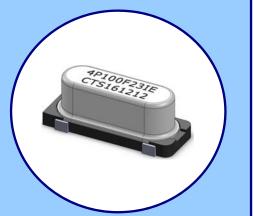


QUARTZ CRYSTAL W/ FOUR LEADS

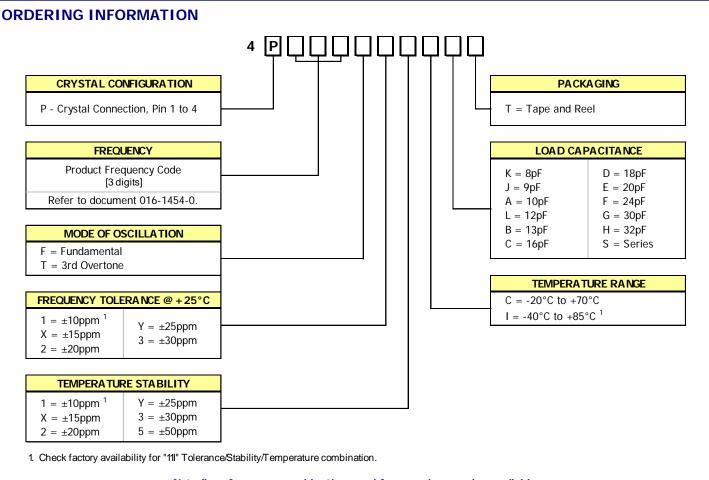
FEATURES

- Four Leaded Package [HC-49/US-SM Type]
- Fundamental and 3rd Overtone Crystals
- Alternative for Common Plastic Molded Designs
- Stable Frequency Over Temperature and Drive Level
- Frequency Range 3.2 64MHz
- Frequency Tolerance, Options from ±10ppm to ±30ppm
- Frequency Stability, Options from ± 10ppm to ±50ppm
- Operating Temperature, -20°C to +70°C & -40°C to +85°C Standard
- Tape & Reel Packaging Standard
- RoHS/Green Compliant [6/6]

APPLICATIONS



The ATSSM4P [4 Pad] crystal series offers excellent long-term stability and reliability in a proven resistance-weld metal package. The excellent shock performance makes it suitable for microprocessor, telecommunication, industrial, consumer electronics and networking applications.



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



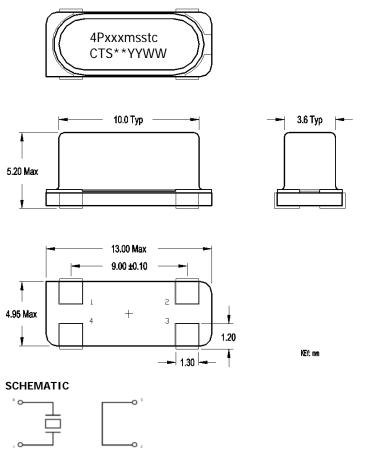
ELECTRICAL CHARACTERISTICS

	PARAMETER	VALUE	
	Frequency Range	3.2MHz to 40MHz	24MHz to 64MHz
	Operating Mode	Fundamental	3rd Overtone
	Crystal Cut	AT-Cut	
	Frequency Tolerance @ +25°C *	±10, ±15, ±20, ±25, ±30ppm	
	Frequency Stability Tolerance *	±10, ±15, ±20, ±25, ±30, ±50ppm	
, L	[Operating Temperature Range, Referenced to +25°C Reading]		
	Operating Temperature Ranges	-20°C to +70°C	
		-40°C to +85°C	
	Equivalent Series Resistance - Fundamental Mode [Maximum]	3.20MHz - <4.00MHz	150 Ohms
		4.00MHz - <5.00MHz	120 Ohms
2		5.00MHz - <8.00MHz	80 Ohms
		8.00MHz - <12.00MHz	60 Ohms
5		12.00MHz - <20.00MHz	40 Ohms
		20.00MHz - 40.00MHz	30 Ohms
ì	Equivalent Series Resistance - 3rd Overtone Mode	24.00MHz - <48.00MHz	80 Ohms
1	[Maximum]	48.00MHz - 64.00MHz	60 Ohms
	Load Capacitance	See Ordering Information	
	Shunt Capacitance [C ₀]	7.0pF Maximum	
	Drive Level	100µW Тур., 1000µW Мах.	
	Aging @ +25°C	±3ppm/yr Typical, ±5ppm/yr Maximum	
	Insulation Resistance	500M Ohms @ DC 100V	
	Storage Temperature Range	-40°C to +100°C	

See Ordering Information.

MECHANICAL SPECIFICATIONS

PACKAGE DRAWING



MARKING INFORMATION

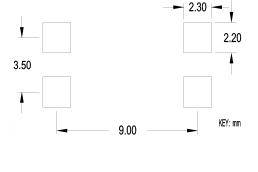
- 1. 4Pxxxmsstc Truncated CTS Part Number. [Packaging code is not required in the marking.] a) 4P – ATSSM4P platform.

 - b) xxx 3-digit Frequency Code. [Reference document 016-1454-0]
 - c) m Operating Mode; F = fundamental, T = 3rd Overtone.
 - d) sstc Tolerance, Stability, Temperature and Load Capacitance codes. Reference Ordering Information.
- ** Manufacturing Site Code. 2.
- 3. YYWW Date Code, YY year, WW week.
- 4. Complete CTS part number, frequency value and date code information must appear on bag and box labels.

NOTES

- 1. JEDEC termination code (e1). Lead finish is SnAgCu.
- Reflow conditions per JEDEC J-STD-020; 260°C maximum, 2. 10 seconds.

SUGGESTED SOLDER PAD GEOMETRY

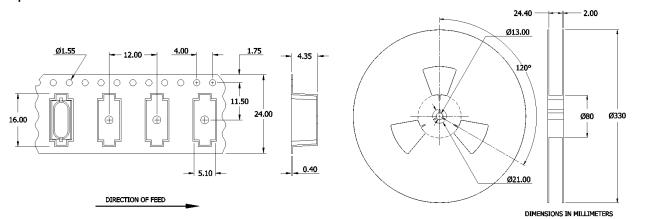


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PACKAGING INFORMATION [For Reference]

Tape and Reel



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