

CERAMIC RESONATOR (CERALOCK®)



Chip Ceramic Resonator CSTC/CSTCC/CSTCS Series (CERALOCK®)

Chip CERALOCK® with built-in load capacitance in an extremely small package.

MURATA's package technology expertise has enabled the development of the Chip CERALOCK® with built-in load capacitance.

High-density mounting can be realized because of the small package and the elimination of the need for an external load capacitor.

FEATURES

- 1. Oscillation circuits do not require external load capacitors.
- 2. The series is available in a wide frequency range.
- The resonators are extremely small and have a low profile.
- 4. No adjustment is necessary for oscillation circuits.



APPLICATIONS

- 1. Clock oscillators for microprocessors.
- 2. Electronic control circuits for small electronic equipment such as hand held movie
- 3. Automotive electronics
- 4. Dual Tone Multi Frequency (DTMF) generator for cordless telephones

■SPECIFICATIONS

Туре	CSTC Series	CSTCC Series CST		S Series
Item	CSTC□MG	CSTCC□MG	CSTCS□MT	CSTCS_MX040
Frequency Range	2.00-3.5MHz	3.51-8.00MHz	8.01-13.0MHz	14.00-60.00MHz
Oscillation Frequency Initial Tolerance	±0.5%	±0.5%	±0.5%	±0.5%
Oscillation Frequency Temperature Stability**1	±0.3%	±0.3%	±0.4%	±0.3%
Aging ^{**,2}	±0.3%	±0.3%	±0.3%	±0.3%
Oscillation Frequency Measuring Circuit	VDD 1MΩ Output (1) (3) (3) (3) (3) (4) (7) (5) (MT Series:12V) (7) (2) (7) (2) (7) (2) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7			

- 1 At −20 to +80°C
- ※2 For 10 years at room temperature
- ※3 TC74HCU04 is used as the standard circuit for the MX040 series.
- ※4 If connected with incorrect orientation, the above specification may not be guaranteed.

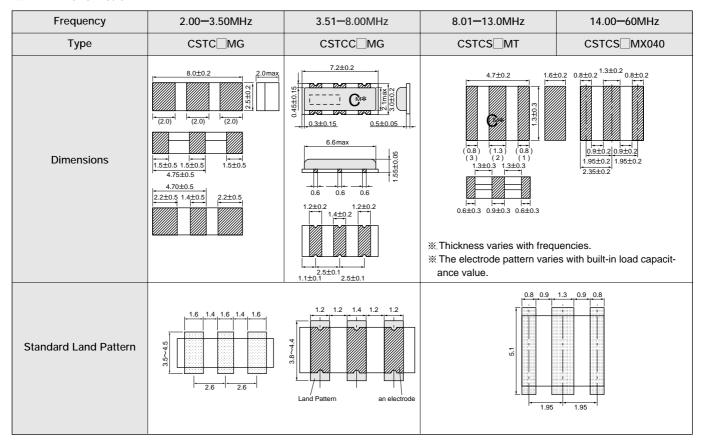


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■DIMENSIONS/STANDARD LAND PATTERN (in mm tol.:±0.3mm)



■THE STABILITY OF OSCILLATION FREQUENCY WITH TEMPERATURE VARIATION

