⚠Note Please read rating and ⚠CAUTION (for storage and operating, rating, soldering and mounting, handling) in this PDF catalog to prevent smoking and/or burning, etc.
This catalog has only typical specifications. Therefore, you are requested to approve our product specification or to transact the approval sheet for product specificaion before ordering.

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● Part Numbering

CERALOCK® (MHz)

(Global Part Number) | CS | T | CV | 16M0 | X53 | *** | -R0 |
❶ ❷ ❸ ❹ ❺ ❻ ❼

❶Product ID

Product ID	
CS	Ceramic Resonators

❷Frequency/Capacitance

Code	Frequency/Capacitance
A	MHz No capacitance built-in
T	MHz Built-in Capacitance

❸Structure/Size

Code	Structure/Size
LA	Lead Type
LS	Round Lead Type
CC	Cap Chip Type
CR/CE/CG	Small-cap Chip Type
CV	Monolithic Chip Type
CW	Small Monolithic Chip Type

❹Nominal Center Frequency

Expressed by four-digit alphanumerics. The unit is in hertz (MHz). Decimal point is expressed by capital letter "**M**".

❺Design

Code	Design
G□□	Thickness Shear mode
T/V□□	Thickness Expander mode
X□□	Thickness Expander mode (3rd overtone)

□□ indicates initial frequency tolerance and load capacity.

❻Individual Specification

Code	Individual Specification
***	Three-digit alphanumerics express "Individual Specification".

With standard products, "❻Individual Specification" is omitted, and "❼Package Specification Code" is carried up.

❼Packaging

Code	Packaging
-B0	Bulk
-A0	Radial Taping H₀=18mm
-A1	Radial Taping H₀=16mm
-R0	Plastic Taping ø=180mm
-R1	Plastic Taping ø=330mm

Radial taping is applied to lead type and plastic taping to chip type.

CERALOCK® (kHz)

(Global Part Number) | CS | B | FB | 1M00 | J58 | *** | -R1 |
❶ ❷ ❸ ❹ ❺ ❻ ❼

❶Product ID

Product ID	
CS	Ceramic Resonators

❷Frequency/Capacitance

Code	Frequency/Capacitance
B	kHz No capacitance built-in

❸Structure/Size

Code	Structure/Size
LA	Two-Terminal Lead Type
FB	SMD Type

❹Nominal Center Frequency

Expressed by four-digit alphanumerics. The unit is in hertz (Hz). Capital letter "**K**" following three figures expresses the unit of "kHz".

❺Design

Code	Design
E□□	Area Expansion mode
J□□	Area Expansion mode (Closed Type)

□□ indicates initial frequency tolerance and load capacitance.

❻Individual Specification

Code	Individual Specification
***	Three-digit alphanumerics express "Individual Specification".

With standard products, "❻Individual Specification" is omitted, and "❼Package Specification Code" is carried up.

❼Packaging

Code	Packaging
-B0	Bulk
-R1	Plastic Taping ø=330mm

muRata

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Ceramic Resonators (CERALOCK®)

muRata

1

Chip Type Three-Terminals CSTCC/E/G/R/V/W Series

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 capacitors.

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.
3. The resonators are extremely small and have a low profile.
4. No adjustment is necessary for oscillation circuits.

■ Applicatons

• Clock oscillators for microprocessors.
• Electronic control circuits for small electronic equipment such as hand held movie.
• Audio-visual applications
  (Camcorder, Remote Controller, etc.)
• Office automation equipments
  (DVD, CD-ROM, HDD, FDD, etc.)
• Automotive electronics.
  (CSTCC_G_A series, CSTCR_G_A series,
   CSTCE_G_A series, CSTCV_X_Q series)
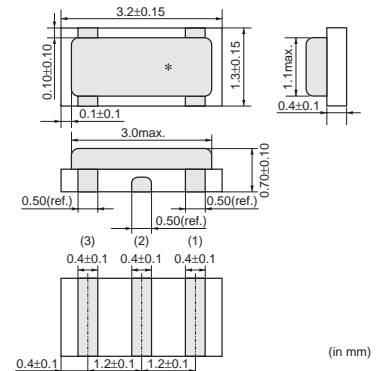• Dual Tone Multi Frequency (DTMF) generator for cordless telephones.
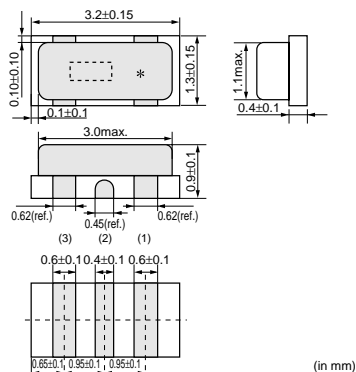
CSTCC_G(_A)
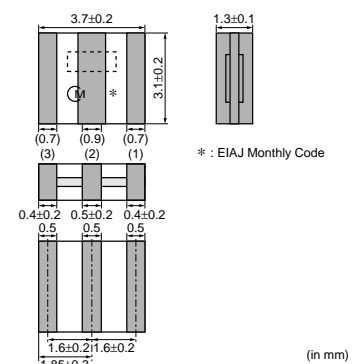2.00-3.99MHz
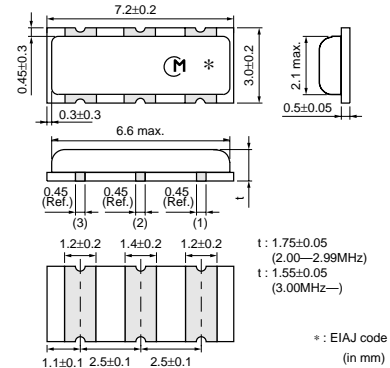
CSTCR_G(_A)
4.00-7.99MHz
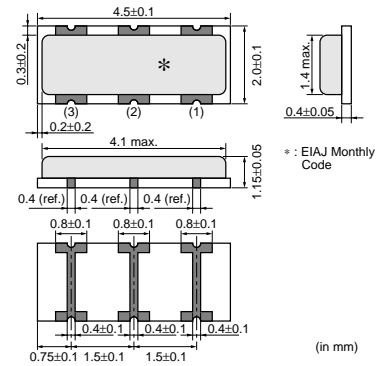
CSTCE_G(_A)
8.00-12.50MHz

CSTCE_V
12.51-19.99MHz

CSTCV_X_Q
14.70-70.00MHz

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