Part Numberin	g
CERALOCK [®] (M	VIHz)
(Global Part Number) CS T CV 16M0 X53 **** -R0 0 2 3 4 5 6 7	
Product ID	
Product ID	
CS	Ceramic Resonators

Prequency/Capacitance

Code	Frequency/Capacitance
Α	MHz No capacitance built-in
т	MHz Built-in Capacitance

3Structure/Size

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

One of the second se

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

Design

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

 $\Box\Box$ indicates initial frequency tolerance and load capacity.

CERALOCK[®] (kHz) (Global Part Number) cs *** -R1 B FB 1M00 J58 Product ID Product ID cs Ceramic Resonators Prequency/Capacitance Code Frequency/Capacitance в kHz No capacitance built-in 3Structure/Size Code Structure/Size LA Two-Terminal Lead Type FB SMD Type

One of the second se

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

6 Individual Specification

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

With standard products, "Ondividual Specification" is omitted, and "OPackage Specification Code" is carried up.

Packaging

Code	Packaging
-B0	Bulk
-A0	Radial Taping H ₀ =18mm
-A1	Radial Taping H ₀ =16mm
-R0	Plastic Taping ø=180mm
-R1	Plastic Taping ø=330mm

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

5 Design

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

□□ indicates initial frequency tolerance and load capacitance.

6Individual Specification

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

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

Packaging

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



Ceramic Resonators (CERALOCK[®])

muRata

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.

Applications

- · 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



2.5±0.1

7.2±0.2



0.3±0.2 0.2±0.2

0.45±0.3

0.45 (Ref.)

(3)

1.1±0.1 2.5±0.1

0 8+0 1





CSTCR_G(_A)

0.75±0.1 1.5±0.1 1.5±0.1

3.2±0.15



0.4

70±0.



0.4±0.1

(in mm)



1.2±0.1 1.2±0.1

Continued on the following page.



4.00-7.99MHz

CSTCE G(A) 8.00-12.50MHz

CSTCV_X_Q

14.70-70.00MHz



(in mm)



(in mm)