

1 Characteristics and Types of CERALOCK®

MHz Band Chip CERALOCK® (CSACW/CSTCC/CSTCR/CSTCE/CSTCW Series)

The MHz band Chip CERALOCK® has a wide frequency range and small footprint to meet further down sizing and high-density mounting requirements.

The table shows the dimensions and two terminals standard land patterns of the CERALOCK® CSACW series.

The second table shows the dimensions and three terminals standard land patterns of CSTCC/CSTCR/CSTCE/CSTCW series chip resonator (built-in load capacitance type). And the carrier tape dimensions of CSTCR series are shown on the next page.

■Dimensions and Standard Land Pattern of Chip CERALOCK® (CSACW Series)

Part Number	Frequency (MHz)	Dimensions Standard Land Pattern (in mm)
CSACW <input type="text"/> X	20.01–70.00	

*1 Thickness varies with frequency.

■Part Numbering

(Ex.)

CS	T	CR	4M00	G	5	3		-R0
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1 2 3 4 5 6 7 8 9

- ① Product ID
- ② Frequency/No capacitance built-in
A : No Capacitance Built-in, T : Built-in Capacitance
- ③ Structure/Size
CC/CR/CE : Cap Chip Type, CW : Monolithic Chip Type
- ④ Nominal Center Frequency
- ⑤ Type
G : Thickness Shear Vibration,
V : Thickness Longitudinal Vibration,
X : Thickness Longitudinal Vibration (3rd overtone)
- ⑥ Frequency Tolerance
1 : ±0.1%, 2 : ±0.2%, 3 : ±0.3%, 5 : ±0.5%, Z : Others
- ⑦ Load Capacitance Value
(In case of CSACW, value is for external capacitance of standard circuit)
1 : 5pF or 6pF, 2 : 10pF, 3 : 15pF, 5 : 33pF or 39pF,
6 : 47pF
- ⑧ Individual Specification
With standard products, "⑧ individual Specification" is omitted, and "⑨ Package Specification Code" is carried up.
- ⑨ Packaging
-B0 : Bulk,
-R0 : Plastic Taping φ180mm Reel Package

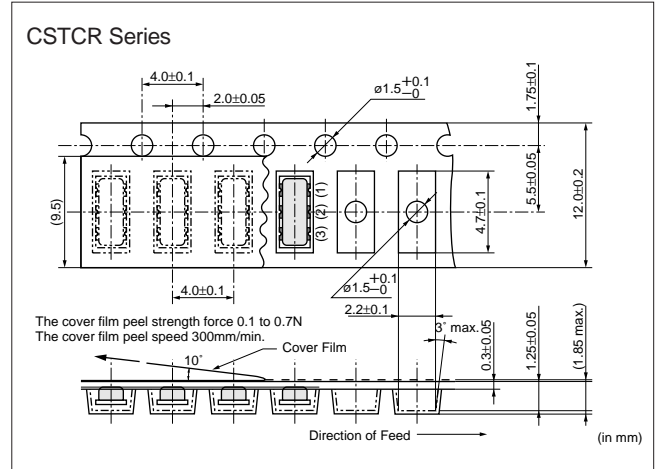
Characteristics and Types of CERALOCK® 1

■Dimensions and Standard Land Pattern of Chip CERALOCK® (CSTCC/CSTCR/CSTCE/CSTCW Series)

Part Number	Frequency (MHz)	Dimensions Standard Land Pattern (in mm)
CSTCC □ G	2.00–3.99	
CSTCR □ G*2	4.00–7.99	
CSTCE □ G*2	8.00–12.50	
CSTCE □ V*2	12.51–20.00	
CSTCW □ X*2	20.01–70.00	

*1 Thickness varies with frequency
*2 Conformal coating or washing of the components is not acceptable because they are not hermetically sealed.

■Dimensions of Carrier Tape for Chip CERALOCK®



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