

### Product Search Data Sheet

Note: This datasheet may be out of date.

Please download the latest datasheet of CSTCE20M0V13C99-R0 from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-sg/products/productdetail?partno=CSTCE20M0V13C99-R0

## CSTCE20M0V13C99-R0









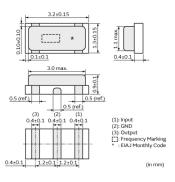
## **Applications**

Unsuitable	Please be sure to read and comply with	
Applications	these "Precautions for use."	
Specific Applications	Automotive powertrain/safety equipment Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use	
	Products after confirming the performance and reliability of the actual	
	Product.	



### Appearance & Shape







### Packaging Information

Packaging	Specifications	Standard Packing Quantity
R0	180mm Embossed Tape	3000



### **Features**

MURATA's frequency adjustment and packaging technology expertise has enabled the development of the chip CERALOCK. This diverse series owes its development to MURATA's original mass production techniques and high reliability, and has achieved importance in the worldwide automotive market.

#### Features

- 1. High accuracy resonators whose total tolerance is available for less than +-3,000ppm.
- 2. High reliability and available for a wide temperature range.
- 3. Oscillation circuits do not require external load capacitors.
- 4. Available for a wide frequency range.
- 5. Extremely small and have a low profile.
- 6. No adjustment is necessary for oscillation circuits.

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#### Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

2. This datasheet has only typical specifications because there is no space for detailed specifications.

Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering





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# CSTCE20M0V13C99-R0



# **Specifications**

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Product Type	Ceramic Resonator	
Troduct Type	(CERALOCK)	
Series	CSTCE_V_C	
_		
Frequency	20.000MHz	
Frequency Tolerance	+/-0.10% max.	
Operating Temperature	-40°C~125°C	
Range	-40 C-125 C	
Frequency Shift by	+/-0.13% max.	
Temperature	17-0.1370 IIIax.	
Frequency Aging	+/-0.07% max.	
Resonant Impedance (R1)	40ohm max.	
Built-in Load Capacitance	15pF	
(CL1/CL2)	lobe	
Shape	SMD	
Wash	available	
L x W (size)	3.2x1.3mm	
Mass	17mg	

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