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http://www.murata.com/en-us/products/productdetail?partno=CSTCE12M0G15C99-R0

# CSTCE12M0G15C99-R0









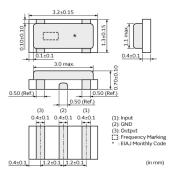
## **Applications**

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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- 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





### Product Search Data Sheet

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# **Specifications**

Product Type	Ceramic Resonator (CERALOCK)
Series	CSTCE_G_C
Frequency	12.000MHz
Frequency Tolerance	+/-0.10% max.
Operating Temperature Range	-40°C~125°C
Frequency Shift by Temperature	+/-0.13% max.
Frequency Aging	+/-0.07% max.
Resonant Impedance (R1)	30ohm max.
Built-in Load Capacitance (CL1/CL2)	33pF
Shape	SMD
Wash	available
L x W (size)	3.2x1.3mm
Mass	11mg

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