

Note: This datasheet may be out of date. Please download the latest datasheet of CSTNR4M91GH5C000R0 from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=CSTNR4M91GH5C000R0

## CSTNR4M91GH5C000R0





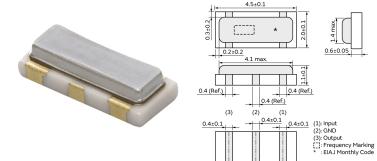








### Appearance & Shape





### **Features**

MURATA's frequency adjustment and packaging technology expertise has enabled the development of the chip CERALOCK(R) with built-in load capacitors.

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.
- 7. Stable supply is ensured due to not using precious metal(Palladium).



## **Applications**

Automotive Usage	Powertrain/Safety
Other Usage	Automotive

0.75±0.1



### Packaging Information

Packaging		Standard Packing Quantity
R0	180mm Embossed Tape	3000

1 of 2

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# CSTNR4M91GH5C000R0



# **Specifications**

Product Type  Ceramic Resonator (CERALOCK)  Series  CSTNR_GH5C  Frequency  4.915MHz  Frequency Tolerance  +/-0.07% max.  Operating Temperature Range Frequency Shift by Temperature  Frequency Aging  +/-0.11% max.  Frequency Aging  +/-0.07% max.  60ohm max.  Built-in Load Capacitance (CL1/CL2)  Shape  SMD  Wash  L x W (size)  4.5x2.0mm  Mass  32.54mg		Ceramic Resonator
Series CSTNR_GH5C  Frequency 4.915MHz  Frequency Tolerance +/-0.07% max.  Operating Temperature Range -40°C~125°C  Frequency Shift by +/-0.11% max.  Frequency Aging +/-0.07% max.  Resonant Impedance (R1) 60ohm max.  Built-in Load Capacitance (CL1/CL2)  Shape SMD  Wash available  L x W (size) 4.5x2.0mm	Product Type	
Frequency 4.915MHz  Frequency Tolerance +/-0.07% max.  Operating Temperature Range -40°C~125°C +/-0.11% max.  Frequency Shift by +/-0.11% max.  Frequency Aging +/-0.07% max.  Resonant Impedance (R1) 60ohm max.  Built-in Load Capacitance (CL1/CL2) 39pF  Shape SMD  Wash available  L x W (size) 4.5x2.0mm	· ·	(CERALOCK)
Frequency Tolerance +/-0.07% max.  Operating Temperature Range -40°C~125°C +/-0.11% max.  Frequency Shift by +/-0.11% max.  Frequency Aging +/-0.07% max.  Resonant Impedance (R1) 600hm max.  Built-in Load Capacitance (CL1/CL2) 39pF  SMD  Wash available  L x W (size) 4.5x2.0mm	Series	CSTNR_GH5C
Frequency Tolerance +/-0.07% max.  Operating Temperature Range -40°C~125°C +/-0.11% max.  Frequency Shift by +/-0.11% max.  Frequency Aging +/-0.07% max.  Resonant Impedance (R1) 600hm max.  Built-in Load Capacitance (CL1/CL2) 39pF  SMD  Wash available  L x W (size) 4.5x2.0mm		_
Operating Temperature Range Frequency Shift by Temperature Frequency Aging  Resonant Impedance (R1)  Built-in Load Capacitance (CL1/CL2)  Shape  Wash  L x W (size)  -40°C~125°C  +/-0.11% max.  60ohm max.  39pF  SMD  4.5x2.0mm	Frequency	4.915MHz
Operating Temperature Range Frequency Shift by Temperature Frequency Aging  Resonant Impedance (R1)  Built-in Load Capacitance (CL1/CL2)  Shape  Wash  L x W (size)  -40°C~125°C  +/-0.11% max.  60ohm max.  39pF  SMD  4.5x2.0mm		/ o o=o/
Range Frequency Shift by Temperature  Frequency Aging  Resonant Impedance (R1)  Built-in Load Capacitance (CL1/CL2)  Shape  Wash  L x W (size)  Frequency Shift by +/-0.11% max.  60ohm max.  39pF  SMD  available  L x W (size)	Frequency Tolerance	+/-0.07% max.
Range Frequency Shift by Temperature  Frequency Aging  +/-0.11% max.  +/-0.07% max.  Resonant Impedance (R1)  Built-in Load Capacitance (CL1/CL2)  Shape  SMD  Wash  L x W (size)  4.5x2.0mm	Operating Temperature	40°C-425°C
Temperature +/-0.11% max.  Frequency Aging +/-0.07% max.  Resonant Impedance (R1) 60ohm max.  Built-in Load Capacitance (CL1/CL2) 39pF  Shape SMD  Wash available  L x W (size) 4.5x2.0mm	Range	-40 C~125 C
Temperature  Frequency Aging +/-0.07% max.  Resonant Impedance (R1) 60ohm max.  Built-in Load Capacitance (CL1/CL2) 39pF  SMD  Wash available  L x W (size) 4.5x2.0mm	Frequency Shift by	1/0.440/ 2004
Resonant Impedance (R1) 60ohm max.  Built-in Load Capacitance (CL1/CL2) 39pF  Shape SMD  Wash available  L x W (size) 4.5x2.0mm	Temperature	+/-0.1176 IIIax.
Resonant Impedance (R1) 60ohm max.  Built-in Load Capacitance (CL1/CL2) 39pF  Shape SMD  Wash available  L x W (size) 4.5x2.0mm	Frequency Aging	+/-0.07% max.
Built-in Load Capacitance (CL1/CL2)         39pF           Shape         SMD           Wash         available           L x W (size)         4.5x2.0mm		, , , , , , , , , , , , , , , , , , , ,
(CL1/CL2)         39pF           Shape         SMD           Wash         available           L x W (size)         4.5x2.0mm	Resonant Impedance (R1)	60ohm max.
(CL1/CL2)         39pF           Shape         SMD           Wash         available           L x W (size)         4.5x2.0mm	Built-in Load Capacitance	
Shape SMD  Wash available  L x W (size) 4.5x2.0mm	'	39pF
Wash available L x W (size) 4.5x2.0mm	,	0.45
L x W (size) 4.5x2.0mm	Shape	SMD
L x W (size) 4.5x2.0mm	Wash	available
Mass 32.54mg	L x W (size)	4.5x2.0mm
Mass 32.54mg		
	Mass	32.54mg

2 of 2

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