Ceramic Resonators (CERALOCK®)

Ceramic resonators (CERALOCK®) are made of high stability piezoelectric ceramics that function as a mechanical resonator.
At present, CERALOCK® find a broad range of applications such as automotive electronics, communications, personal computing, and medical/healthcare equipment.

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Part Number	Frequency	Frequency Tolerance	Frequency Shift by Temperature	Operating Temperature Range	Other Applications	Shape
CSTNE10M0G520000R0 Under development	10.000MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE10M0G52A000R0 Under development	10.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Automotive	SMD
CSTNE10M0G52Z000R0 Under development	10.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Consumer/Industrial	SMD
CSTNE10M0G550000R0 In Production Recommended	10.000MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE10M0G55A000R0 In Production Recommended	10.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Automotive	SMD
CSTNE10M0G55Z000R0 In Production Recommended	10.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Consumer/Industrial	SMD

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CSTNE10M0GH5C000R0 In Production Recommended	10.000MHz	±0.07%	±0.13%	-40℃ to 125℃	Automotive	SMD
CSTNE10M0GH5L000R0 In Production Recommended	10.000MHz	±0.07%	±0.11%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE11M0G520000R0 Under development	11.000MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE11M2G550000R0 In Production Recommended	11.289MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE12M0G520000R0 Under development	12.000MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE12M0G52A000R0 Under development	12.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Automotive	SMD
CSTNE12M0G52Z000R0 Under development	12.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Consumer/Industrial	SMD
CSTNE12M0G550000R0 In Production Recommended	12.000MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE12M0G55A000R0 In Production Recommended	12.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Automotive	SMD
CSTNE12M0G55Z000R0 In Production Recommended	12.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Consumer/Industrial	SMD
CSTNE12M0GH5C000R0 In Production Recommended	12.000MHz	±0.07%	±0.13%	-40℃ to 125℃	Automotive	SMD
CSTNE12M0GH5L000R0 In Production Recommended	12.000MHz	±0.07%	±0.11%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE12M2G520000R0 Under development	12.288MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE12M2G550000R0 In Production Recommended	12.288MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE12M2G55A000R0 In Production Recommended	12.288MHz	±0.50%	±0.20%	-40℃ to 125℃	Automotive	SMD

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Part Number	Frequency	Frequency Tolerance	Frequency Shift by Temperature	Operating Temperature Range	Other Applications	Shape
CSTNE12M2GH5L000R0 In Production Recommended	12.288MHz	±0.07%	±0.11%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE12M5G520000R0 Under development	12.500MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE12M5G550000R0 In Production Recommended	12.500MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE12M5G55A000R0 In Production Recommended	12.500MHz	±0.50%	±0.20%	-40℃ to 125℃	Automotive	SMD
CSTNE12M5G55Z000R0 In Production Recommended	12.500MHz	±0.50%	±0.20%	-40℃ to 125℃	Consumer/Industrial	SMD
CSTNE13M0G520000R0 Under development	13.000MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE13M0G55A000R0 In Production Recommended	13.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Automotive	SMD
CSTNE13M5G520000R0 Under development	13.500MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE13M5G550000R0 In Production Recommended	13.500MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE14M0V510000R0 Under development	14.000MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE14M0V530000R0 In Production Recommended	14.000MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE14M0V53C000R0 In Production Recommended	14.000MHz	±0.50%	±0.15%	-40℃ to 125℃	Automotive	SMD
CSTNE14M3V530000R0 In Production Recommended	14.318MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE14M7V510000R0 Under development	14.746MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE14M7V530000R0 In Production Recommended	14.746MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD

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Part Number	Frequency	Frequency Tolerance	Frequency Shift by Temperature	Operating Temperature Range	Other Applications	Shape
CSTNE14M7V53C000R0 In Production Recommended	14.746MHz	±0.50%	±0.15%	-40℃ to 125℃	Automotive	SMD
CSTNE15M0V530000R0 In Production Recommended	15.000MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE15M0V53C000R0 In Production Recommended	15.000MHz	±0.50%	±0.15%	-40℃ to 125℃	Automotive	SMD
CSTNE16M0V510000R0 Under development	16.000MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE16M0V51C000R0 Under development	16.000MHz	±0.50%	±0.30%	-40℃ to 125℃	Automotive	SMD
CSTNE16M0V51Z000R0 Under development	16.000MHz	±0.50%	±0.30%	-40℃ to 125℃	Consumer/Industrial	SMD
CSTNE16M0V530000R0 In Production Recommended	16.000MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE16M0V53C000R0 In Production Recommended	16.000MHz	±0.50%	±0.15%	-40℃ to 125℃	Automotive	SMD
CSTNE16M0V53Z000R0 In Production Recommended	16.000MHz	±0.50%	±0.30%	-40℃ to 125℃	Consumer/Industrial	SMD
CSTNE16M0VH3C000R0 In Production Recommended	16.000MHz	±0.07%	±0.13%	-40℃ to 125℃	Automotive	SMD
CSTNE16M0VH3L000R0 In Production Recommended	16.000MHz	±0.07%	±0.11%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE16M3V530000R0 In Production Recommended	16.384MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE16M5V530000R0 In Production Recommended	16.500MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE16M6V530000R0 In Production Recommended	16.670MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE16M6V53C000R0 In Production Recommended	16.670MHz	±0.50%	±0.15%	-40℃ to 125℃	Automotive	SMD

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Part Number	Frequency	Frequency Tolerance	Frequency Shift by Temperature	Operating Temperature Range	Other Applications	Shape
CSTNE16M6V53Z000R0 In Production Recommended	16.670MHz	±0.50%	±0.30%	-40℃ to 125℃	Consumer/Industrial	SMD
CSTNE16M8V530000R0 In Production Recommended	16.800MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE16M9V530000R0 In Production Recommended	16.934MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE16M9V53C000R0 In Production Recommended	16.934MHz	±0.50%	±0.15%	-40℃ to 125℃	Automotive	SMD
CSTNE16M9V53Z000R0 In Production Recommended	16.934MHz	±0.50%	±0.30%	-40℃ to 125℃	Consumer/Industrial	SMD
CSTNE17M0V530000R0 In Production Recommended	17.000MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE17M2V530000R0 In Production Recommended	17.200MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE18M0V510000R0 Under development	18.000MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE18M0V530000R0 In Production Recommended	18.000MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE18M0VH3C000R0 In Production Recommended	18.000MHz	±0.07%	±0.13%	-40℃ to 125℃	Automotive	SMD
CSTNE18M4V530000R0 In Production Recommended	18.432MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE18M4V53C000R0 In Production Recommended	18.432MHz	±0.50%	±0.15%	-40℃ to 125℃	Automotive	SMD
CSTNE18M4V53Z000R0 In Production Recommended	18.432MHz	±0.50%	±0.30%	-40℃ to 125℃	Consumer/Industrial	SMD
CSTNE18M7V530000R0 In Production Recommended	18.750MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE19M2V530000R0 In Production Recommended	19.200MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD

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CSTNE19M2VH3L000R0 In Production Recommended	19.200MHz	±0.07%	±0.11%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE19M6V510000R0 Under development	19.660MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE19M6V530000R0 In Production Recommended	19.660MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE19M8V530000R0 In Production Recommended	19.800MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE20M0V510000R0 Under development	20.000MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE20M0V51C000R0 Under development	20.000MHz	±0.50%	±0.30%	-40℃ to 125℃	Automotive	SMD
CSTNE20M0V51Z000R0 Under development	20.000MHz	±0.50%	±0.30%	-40℃ to 125℃	Consumer/Industrial	SMD
CSTNE20M0V530000R0 In Production Recommended	20.000MHz	±0.50%	±0.30%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE20M0V53C000R0 In Production Recommended	20.000MHz	±0.50%	±0.15%	-40℃ to 125℃	Automotive	SMD
CSTNE20M0V53Z000R0 In Production Recommended	20.000MHz	±0.50%	±0.30%	-40℃ to 125℃	Consumer/Industrial	SMD
CSTNE20M0VH3C000R0 In Production Recommended	20.000MHz	±0.07%	±0.13%	-40℃ to 125℃	Automotive	SMD
CSTNE20M0VH3L000R0 In Production Recommended	20.000MHz	±0.07%	±0.11%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE8M00G520000R0 Under development	8.000MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE8M00G52A000R0 Under development	8.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Automotive	SMD
CSTNE8M00G52Z000R0 Under development	8.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Consumer/Industrial	SMD

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CSTNE8M00G550000R0 In Production Recommended	8.000MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE8M00G55A000R0 In Production Recommended	8.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Automotive	SMD
CSTNE8M00G55Z000R0 In Production Recommended	8.000MHz	±0.50%	±0.20%	-40℃ to 125℃	Consumer/Industrial	SMD
CSTNE8M00GH5C000R0 In Production Recommended	8.000MHz	±0.07%	±0.13%	-40℃ to 125℃	Automotive	SMD
CSTNE8M00GH5L000R0 In Production Recommended	8.000MHz	±0.07%	±0.11%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE8M19G550000R0 In Production Recommended	8.192MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE8M38G520000R0 Under development	8.388MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE8M38G52A000R0 Under development	8.388MHz	±0.50%	±0.20%	-40℃ to 125℃	Automotive	SMD
CSTNE8M38G550000R0 In Production Recommended	8.388MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE8M38G55A000R0 In Production Recommended	8.388MHz	±0.50%	±0.20%	-40℃ to 125℃	Automotive	SMD
CSTNE8M50G550000R0 In Production Recommended	8.500MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE9M00G520000R0 Under development	9.000MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE9M00G550000R0 In Production Recommended	9.000MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE9M21G520000R0 Under development	9.210MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE9M60GH5L000R0 In Production Recommended	9.600MHz	±0.07%	±0.11%	-40℃ to 85℃	Consumer/Industrial	SMD

Ceramic Resonators (CERALOCK®)

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CSTNE9M83G520000R0 Under development	9.830MHz	±0.50%	±0.20%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE9M83GH5L000R0 In Production Recommended	9.830MHz	±0.07%	±0.11%	-40℃ to 85℃	Consumer/Industrial	SMD
CSTNE9M84G52A000R0 Under development	9.843MHz	±0.50%	±0.20%	-40℃ to 125℃	Automotive	SMD
CSTNR4M00GH5C000R0 In Production Recommended	4.000MHz	±0.07%	±0.13%	-40℃ to 125℃	Automotive	SMD
CSTNR4M00GH5L000R0 In Production Recommended	4.000MHz	±0.07%	±0.11%	-20℃ to 85℃	Consumer/Industrial	SMD
CSTNR4M91GH5L000R0 In Production Recommended	4.915MHz	±0.07%	±0.11%	-20℃ to 85℃	Consumer/Industrial	SMD
CSTNR5M00GH5C000R0 In Production Recommended	5.000MHz	±0.07%	±0.13%	-40℃ to 125℃	Automotive	SMD
CSTNR5M00GH5L000R0 In Production Recommended	5.000MHz	±0.07%	±0.11%	-20℃ to 85℃	Consumer/Industrial	SMD
CSTNR6M00GH5C000R0 In Production Recommended	6.000MHz	±0.07%	±0.13%	-40℃ to 125℃	Automotive	SMD
CSTNR6M00GH5L000R0 In Production Recommended	6.000MHz	±0.07%	±0.11%	-20℃ to 85℃	Consumer/Industrial	SMD
CSTNR7M37GH5L000R0 In Production Recommended	7.370MHz	±0.07%	±0.11%	-20℃ to 85℃	Consumer/Industrial	SMD