

# 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 <small>Under development</small>	10.000MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE10M0G52A000R0 <small>Under development</small>	10.000MHz	±0.50%	±0.20%	-40°C to 125°C	Automotive	SMD
CSTNE10M0G52Z000R0 <small>Under development</small>	10.000MHz	±0.50%	±0.20%	-40°C to 125°C	Consumer/Industrial	SMD
CSTNE10M0G550000R0 <small>In Production</small> <small>Recommended</small>	10.000MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE10M0G55A000R0 <small>In Production</small> <small>Recommended</small>	10.000MHz	±0.50%	±0.20%	-40°C to 125°C	Automotive	SMD
CSTNE10M0G55Z000R0 <small>In Production</small> <small>Recommended</small>	10.000MHz	±0.50%	±0.20%	-40°C to 125°C	Consumer/Industrial	SMD

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Part Number	Frequency	Frequency Tolerance	Frequency Shift by Temperature	Operating Temperature Range	Other Applications	Shape
CSTNE10M0GH5C000R0 <span>In Production</span> <span>Recommended</span>	10.000MHz	±0.07%	±0.13%	-40°C to 125°C	Automotive	SMD
CSTNE10M0GH5L000R0 <span>In Production</span> <span>Recommended</span>	10.000MHz	±0.07%	±0.11%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE11M0G520000R0 <span>Under development</span>	11.000MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE11M2G550000R0 <span>In Production</span> <span>Recommended</span>	11.289MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE12M0G520000R0 <span>Under development</span>	12.000MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE12M0G52A000R0 <span>Under development</span>	12.000MHz	±0.50%	±0.20%	-40°C to 125°C	Automotive	SMD
CSTNE12M0G52Z000R0 <span>Under development</span>	12.000MHz	±0.50%	±0.20%	-40°C to 125°C	Consumer/Industrial	SMD
CSTNE12M0G550000R0 <span>In Production</span> <span>Recommended</span>	12.000MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE12M0G55A000R0 <span>In Production</span> <span>Recommended</span>	12.000MHz	±0.50%	±0.20%	-40°C to 125°C	Automotive	SMD
CSTNE12M0G55Z000R0 <span>In Production</span> <span>Recommended</span>	12.000MHz	±0.50%	±0.20%	-40°C to 125°C	Consumer/Industrial	SMD
CSTNE12M0GH5C000R0 <span>In Production</span> <span>Recommended</span>	12.000MHz	±0.07%	±0.13%	-40°C to 125°C	Automotive	SMD
CSTNE12M0GH5L000R0 <span>In Production</span> <span>Recommended</span>	12.000MHz	±0.07%	±0.11%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE12M2G520000R0 <span>Under development</span>	12.288MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE12M2G550000R0 <span>In Production</span> <span>Recommended</span>	12.288MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE12M2G55A000R0 <span>In Production</span> <span>Recommended</span>	12.288MHz	±0.50%	±0.20%	-40°C to 125°C	Automotive	SMD

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<span>In Production</span> <span>Recommended</span> CSTNE12M2GH5L000R0	12.288MHz	±0.07%	±0.11%	-40°C to 85°C	Consumer/Industrial	SMD
<span>Under development</span> CSTNE12M5G520000R0	12.500MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
<span>In Production</span> <span>Recommended</span> CSTNE12M5G550000R0	12.500MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
<span>In Production</span> <span>Recommended</span> CSTNE12M5G55A000R0	12.500MHz	±0.50%	±0.20%	-40°C to 125°C	Automotive	SMD
<span>In Production</span> <span>Recommended</span> CSTNE12M5G55Z000R0	12.500MHz	±0.50%	±0.20%	-40°C to 125°C	Consumer/Industrial	SMD
<span>Under development</span> CSTNE13M0G520000R0	13.000MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
<span>In Production</span> <span>Recommended</span> CSTNE13M0G55A000R0	13.000MHz	±0.50%	±0.20%	-40°C to 125°C	Automotive	SMD
<span>Under development</span> CSTNE13M5G520000R0	13.500MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
<span>In Production</span> <span>Recommended</span> CSTNE13M5G550000R0	13.500MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
<span>Under development</span> CSTNE14M0V510000R0	14.000MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
<span>In Production</span> <span>Recommended</span> CSTNE14M0V530000R0	14.000MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
<span>In Production</span> <span>Recommended</span> CSTNE14M0V53C000R0	14.000MHz	±0.50%	±0.15%	-40°C to 125°C	Automotive	SMD
<span>In Production</span> <span>Recommended</span> CSTNE14M3V530000R0	14.318MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
<span>Under development</span> CSTNE14M7V510000R0	14.746MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
<span>In Production</span> <span>Recommended</span> CSTNE14M7V530000R0	14.746MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD

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CSTNE14M7V53C000R0 <span>In Production</span> <span>Recommended</span>	14.746MHz	±0.50%	±0.15%	-40°C to 125°C	Automotive	SMD
CSTNE15M0V530000R0 <span>In Production</span> <span>Recommended</span>	15.000MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE15M0V53C000R0 <span>In Production</span> <span>Recommended</span>	15.000MHz	±0.50%	±0.15%	-40°C to 125°C	Automotive	SMD
CSTNE16M0V510000R0 <span>Under development</span>	16.000MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE16M0V51C000R0 <span>Under development</span>	16.000MHz	±0.50%	±0.30%	-40°C to 125°C	Automotive	SMD
CSTNE16M0V51Z000R0 <span>Under development</span>	16.000MHz	±0.50%	±0.30%	-40°C to 125°C	Consumer/Industrial	SMD
CSTNE16M0V530000R0 <span>In Production</span> <span>Recommended</span>	16.000MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE16M0V53C000R0 <span>In Production</span> <span>Recommended</span>	16.000MHz	±0.50%	±0.15%	-40°C to 125°C	Automotive	SMD
CSTNE16M0V53Z000R0 <span>In Production</span> <span>Recommended</span>	16.000MHz	±0.50%	±0.30%	-40°C to 125°C	Consumer/Industrial	SMD
CSTNE16M0VH3C000R0 <span>In Production</span> <span>Recommended</span>	16.000MHz	±0.07%	±0.13%	-40°C to 125°C	Automotive	SMD
CSTNE16M0VH3L000R0 <span>In Production</span> <span>Recommended</span>	16.000MHz	±0.07%	±0.11%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE16M3V530000R0 <span>In Production</span> <span>Recommended</span>	16.384MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE16M5V530000R0 <span>In Production</span> <span>Recommended</span>	16.500MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE16M6V530000R0 <span>In Production</span> <span>Recommended</span>	16.670MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE16M6V53C000R0 <span>In Production</span> <span>Recommended</span>	16.670MHz	±0.50%	±0.15%	-40°C to 125°C	Automotive	SMD

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CSTNE16M6V53Z000R0 <span>In Production</span> <span>Recommended</span>	16.670MHz	±0.50%	±0.30%	-40°C to 125°C	Consumer/Industrial	SMD
CSTNE16M8V530000R0 <span>In Production</span> <span>Recommended</span>	16.800MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE16M9V530000R0 <span>In Production</span> <span>Recommended</span>	16.934MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE16M9V53C000R0 <span>In Production</span> <span>Recommended</span>	16.934MHz	±0.50%	±0.15%	-40°C to 125°C	Automotive	SMD
CSTNE16M9V53Z000R0 <span>In Production</span> <span>Recommended</span>	16.934MHz	±0.50%	±0.30%	-40°C to 125°C	Consumer/Industrial	SMD
CSTNE17M0V530000R0 <span>In Production</span> <span>Recommended</span>	17.000MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE17M2V530000R0 <span>In Production</span> <span>Recommended</span>	17.200MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE18M0V510000R0 <span>Under development</span>	18.000MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE18M0V530000R0 <span>In Production</span> <span>Recommended</span>	18.000MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE18M0VH3C000R0 <span>In Production</span> <span>Recommended</span>	18.000MHz	±0.07%	±0.13%	-40°C to 125°C	Automotive	SMD
CSTNE18M4V530000R0 <span>In Production</span> <span>Recommended</span>	18.432MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE18M4V53C000R0 <span>In Production</span> <span>Recommended</span>	18.432MHz	±0.50%	±0.15%	-40°C to 125°C	Automotive	SMD
CSTNE18M4V53Z000R0 <span>In Production</span> <span>Recommended</span>	18.432MHz	±0.50%	±0.30%	-40°C to 125°C	Consumer/Industrial	SMD
CSTNE18M7V530000R0 <span>In Production</span> <span>Recommended</span>	18.750MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE19M2V530000R0 <span>In Production</span> <span>Recommended</span>	19.200MHz	±0.50%	±0.30%	-40°C to 85°C	Consumer/Industrial	SMD

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

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

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CSTNE9M83G52000R0 <small>Under development</small>	9.830MHz	±0.50%	±0.20%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE9M83GH5L000R0 <small>In Production Recommended</small>	9.830MHz	±0.07%	±0.11%	-40°C to 85°C	Consumer/Industrial	SMD
CSTNE9M84G52A000R0 <small>Under development</small>	9.843MHz	±0.50%	±0.20%	-40°C to 125°C	Automotive	SMD
CSTNR4M00GH5C000R0 <small>In Production Recommended</small>	4.000MHz	±0.07%	±0.13%	-40°C to 125°C	Automotive	SMD
CSTNR4M00GH5L000R0 <small>In Production Recommended</small>	4.000MHz	±0.07%	±0.11%	-20°C to 85°C	Consumer/Industrial	SMD
CSTNR4M91GH5L000R0 <small>In Production Recommended</small>	4.915MHz	±0.07%	±0.11%	-20°C to 85°C	Consumer/Industrial	SMD
CSTNR5M00GH5C000R0 <small>In Production Recommended</small>	5.000MHz	±0.07%	±0.13%	-40°C to 125°C	Automotive	SMD
CSTNR5M00GH5L000R0 <small>In Production Recommended</small>	5.000MHz	±0.07%	±0.11%	-20°C to 85°C	Consumer/Industrial	SMD
CSTNR6M00GH5C000R0 <small>In Production Recommended</small>	6.000MHz	±0.07%	±0.13%	-40°C to 125°C	Automotive	SMD
CSTNR6M00GH5L000R0 <small>In Production Recommended</small>	6.000MHz	±0.07%	±0.11%	-20°C to 85°C	Consumer/Industrial	SMD
CSTNR7M37GH5L000R0 <small>In Production Recommended</small>	7.370MHz	±0.07%	±0.11%	-20°C to 85°C	Consumer/Industrial	SMD

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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А