

High temperature ceramic cased capacitors, with a new, unique design concept, are ideally suited for continuous operation up to +260°C. Problems associated with epoxy cased/epoxy potted capacitors, such as material deterioration, cracks in cases and potted areas, are nonexistent, even at +260°C.

COG

COG (NP0) capacitors, which exhibit little change in capacitance with variations in temperature, are used in RF oscillators, precision timing circuits, wave filters, and other circuits requiring a predictable linear temperature coefficient.

X7R

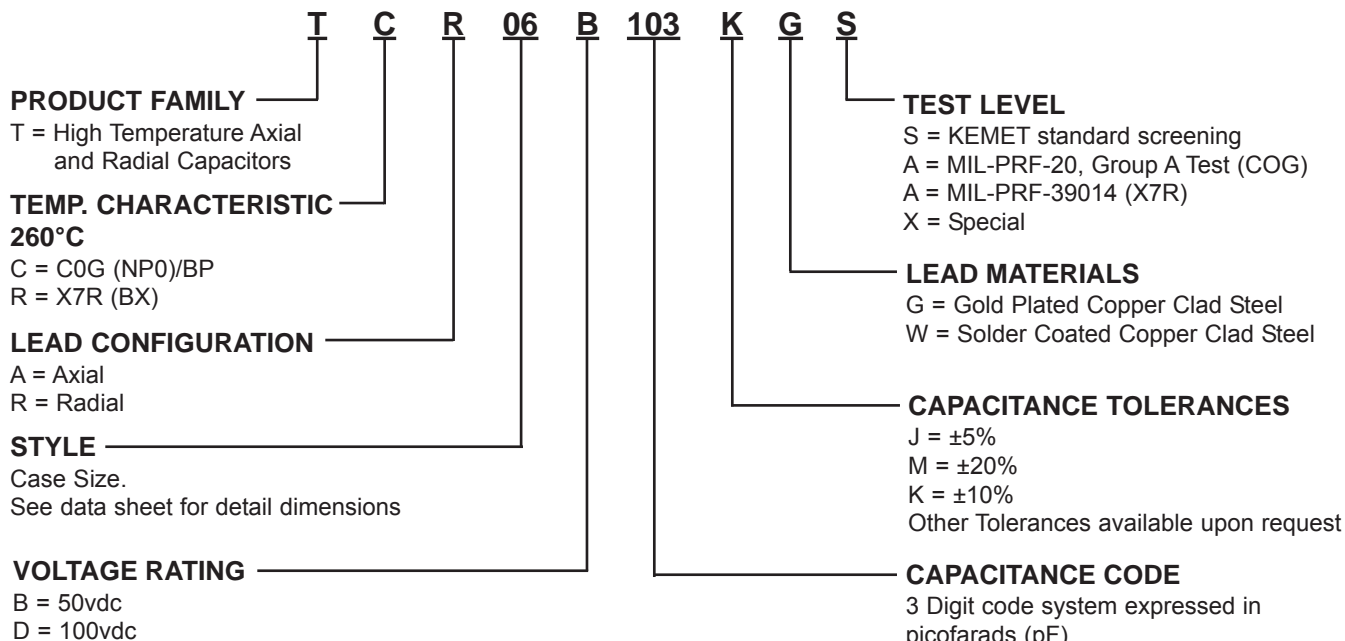
Conventional X7R materials lose up to 75% of the +25°C capacitance. Dissipation factor drops from 1.25% at +25°C to 0.2% at +260°C. At +120°C the ceramic undergoes a transformation (crystalline inversion) resulting in the material changing from ferroelectric to paraelectric - no piezoelectric behavior.

Typical applications include oil well logging (down hole), jet engine controls and geophysical pressure probes.

INSTALLATION:

Parts should be soldered using a heat sink between the soldering point and the part using a soldering iron rated 18-30 watts. Remove all traces of flux or other contamination resulting from the soldering operation. An intermittent conducting path between the leads, at high voltage, could cause breakdown. Soldering temperature should not exceed +300°C.

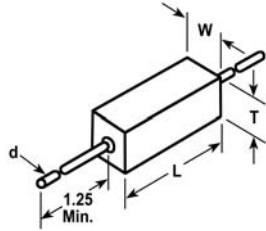
PART NUMBER AND ORDERING INFORMATION



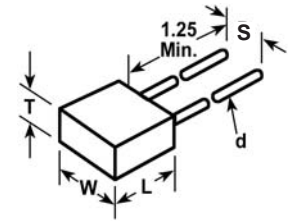
| MARKING | EXAMPLE |
|-------------------|---------|
| Manufacturer's ID | KEC |
| Capacitance | 106J |
| Voltage | 50V |
| Date Code | 123 |
| Red dot = +260°C | • |

High Temperature (+260°C) Axial and Radial Ceramic Cased Capacitors (C³) TCR/TCA Series

AXIAL
All Dimensions
in Inches (mm)



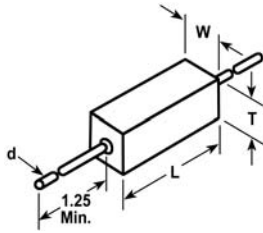
RADIAL
All Dimensions
in Inches (mm)



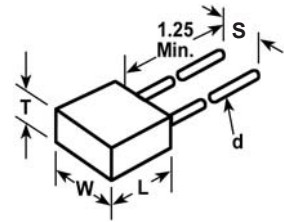
COG DIELECTRIC

| | | AXIAL | | | | | | | | | | RADIAL | | | | | | | | | | |
|---------|------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| STYLE | | 16 | | 25 | | 39 | | 50 | | 69 | | 05 | | 06 | | 07 | | 08 | | 09 | | |
| Cap | L _{MAX} | .170 (4.32) | .270 (6.86) | .400 (10.16) | .520 (13.21) | .720 (18.29) | .200 (5.08) | .300 (7.62) | .300 (7.62) | .500 (12.70) | .500 (12.70) | .200 (5.08) | .300 (7.62) | .300 (7.62) | .500 (12.70) | .500 (12.70) | .200 (5.08) | .300 (7.62) | .300 (7.62) | .500 (12.70) | .500 (12.70) | |
| | W _{MAX} | .080 (2.03) | .100 (2.54) | .150 (3.81) | .265 (6.73) | .370 (9.40) | .200 (5.08) | .300 (7.62) | .300 (7.62) | .500 (12.70) | .500 (12.70) | .200 (5.08) | .300 (7.62) | .300 (7.62) | .500 (12.70) | .500 (12.70) | .200 (5.08) | .300 (7.62) | .300 (7.62) | .500 (12.70) | .500 (12.70) | |
| | T _{MAX} | .080 (2.03) | .100 (2.54) | .150 (3.81) | .160 (4.06) | .160 (4.06) | .100 (2.54) | .100 (2.54) | .150 (3.81) | .100 (2.54) | .150 (3.81) | .100 (2.54) | .100 (2.54) | .150 (3.81) | .100 (2.54) | .150 (3.81) | .100 (2.54) | .100 (2.54) | .150 (3.81) | .100 (2.54) | .150 (3.81) | |
| | s | --- | --- | --- | --- | --- | .200 ± .015 (5.08 ± .38) | .200 ± .015 (5.08 ± .38) | .200 ± .015 (5.08 ± .38) | .400 ± .015 (10.16 ± .38) | .400 ± .015 (10.16 ± .38) | .200 ± .015 (5.08 ± .38) | .200 ± .015 (5.08 ± .38) | .200 ± .015 (5.08 ± .38) | .400 ± .015 (10.16 ± .38) | .400 ± .015 (10.16 ± .38) | .200 ± .015 (5.08 ± .38) | .200 ± .015 (5.08 ± .38) | .200 ± .015 (5.08 ± .38) | .400 ± .015 (10.16 ± .38) | .400 ± .015 (10.16 ± .38) | |
| | d | .020 ± .002 (.508 ± .051) | .020 ± .002 (.508 ± .051) | .025 ± .002 (.635 ± .051) | .025 ± .002 (.635 ± .051) | .025 ± .002 (.635 ± .051) | .020 ± .002 (.508 ± .051) | .020 ± .002 (.508 ± .051) | .020 ± .002 (.508 ± .051) | .025 ± .002 (.635 ± .051) | .025 ± .002 (.635 ± .051) | .020 ± .002 (.508 ± .051) | .020 ± .002 (.508 ± .051) | .020 ± .002 (.508 ± .051) | .020 ± .002 (.508 ± .051) | .025 ± .002 (.635 ± .051) | .025 ± .002 (.635 ± .051) | .020 ± .002 (.508 ± .051) | .020 ± .002 (.508 ± .051) | .020 ± .002 (.508 ± .051) | .025 ± .002 (.635 ± .051) | .025 ± .002 (.635 ± .051) |
| | Cap Code | | WVDC | | WVDC | | WVDC | | WVDC | | WVDC | | WVDC | | WVDC | | WVDC | | WVDC | | WVDC | |
| | | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | |
| 5.6pF | 569 | | | | | | | | | | | | | | | | | | | | | |
| 6.8 | 689 | | | | | | | | | | | | | | | | | | | | | |
| 8.2 | 829 | | | | | | | | | | | | | | | | | | | | | |
| 10 | 100 | | | | | | | | | | | | | | | | | | | | | |
| 12 | 120 | | | | | | | | | | | | | | | | | | | | | |
| 15 | 150 | | | | | | | | | | | | | | | | | | | | | |
| 18 | 180 | | | | | | | | | | | | | | | | | | | | | |
| 22 | 220 | | | | | | | | | | | | | | | | | | | | | |
| 27 | 270 | | | | | | | | | | | | | | | | | | | | | |
| 33 | 330 | | | | | | | | | | | | | | | | | | | | | |
| 39 | 390 | | | | | | | | | | | | | | | | | | | | | |
| 47 | 470 | | | | | | | | | | | | | | | | | | | | | |
| 56 | 560 | | | | | | | | | | | | | | | | | | | | | |
| 68 | 680 | | | | | | | | | | | | | | | | | | | | | |
| 82 | 820 | | | | | | | | | | | | | | | | | | | | | |
| 100 | 101 | | | | | | | | | | | | | | | | | | | | | |
| 120 | 121 | | | | | | | | | | | | | | | | | | | | | |
| 150 | 151 | | | | | | | | | | | | | | | | | | | | | |
| 180 | 181 | | | | | | | | | | | | | | | | | | | | | |
| 220 | 221 | | | | | | | | | | | | | | | | | | | | | |
| 270 | 271 | | | | | | | | | | | | | | | | | | | | | |
| 330 | 331 | | | | | | | | | | | | | | | | | | | | | |
| 390 | 391 | | | | | | | | | | | | | | | | | | | | | |
| 470 | 471 | | | | | | | | | | | | | | | | | | | | | |
| 560 | 561 | | | | | | | | | | | | | | | | | | | | | |
| 680 | 681 | | | | | | | | | | | | | | | | | | | | | |
| 820 | 821 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 102 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | 122 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | 152 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | 182 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | 222 | | | | | | | | | | | | | | | | | | | | | |
| 2700 | 272 | | | | | | | | | | | | | | | | | | | | | |
| 3300 | 332 | | | | | | | | | | | | | | | | | | | | | |
| 3900 | 392 | | | | | | | | | | | | | | | | | | | | | |
| 4700 | 472 | | | | | | | | | | | | | | | | | | | | | |
| 5600 | 562 | | | | | | | | | | | | | | | | | | | | | |
| 6800 | 682 | | | | | | | | | | | | | | | | | | | | | |
| 8200 | 822 | | | | | | | | | | | | | | | | | | | | | |
| 0.01 μF | 103 | | | | | | | | | | | | | | | | | | | | | |
| 0.012 | 123 | | | | | | | | | | | | | | | | | | | | | |
| 0.015 | 153 | | | | | | | | | | | | | | | | | | | | | |
| 0.018 | 183 | | | | | | | | | | | | | | | | | | | | | |
| 0.022 | 223 | | | | | | | | | | | | | | | | | | | | | |
| 0.027 | 273 | | | | | | | | | | | | | | | | | | | | | |
| 0.033 | 333 | | | | | | | | | | | | | | | | | | | | | |
| 0.039 | 393 | | | | | | | | | | | | | | | | | | | | | |
| 0.047 | 473 | | | | | | | | | | | | | | | | | | | | | |
| 0.056 | 563 | | | | | | | | | | | | | | | | | | | | | |
| 0.068 | 683 | | | | | | | | | | | | | | | | | | | | | |
| 0.082 | 823 | | | | | | | | | | | | | | | | | | | | | |
| 0.10 | 104 | | | | | | | | | | | | | | | | | | | | | |
| 0.12 | 124 | | | | | | | | | | | | | | | | | | | | | |
| 0.15 | 154 | | | | | | | | | | | | | | | | | | | | | |

AXIAL
All Dimensions
in Inches (mm)



RADIAL
All Dimensions
in Inches (mm)



X7R DIELECTRIC

| | | AXIAL | | | | | | | | | | RADIAL | | | | | | | | | |
|---------|------------------|------------------------------|-----|------------------------------|-----|------------------------------|-----|------------------------------|-----|------------------------------|-----|------------------------------|-----|------------------------------|-----|------------------------------|-----|------------------------------|-----|------------------------------|-----|
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| | Cap Code | WVDC | | WVDC | | WVDC | | WVDC | | WVDC | | WVDC | | WVDC | | WVDC | | WVDC | | WVDC | |
| | | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| 100pF | 101 | | | | | | | | | | | | | | | | | | | | |
| 120 | 121 | | | | | | | | | | | | | | | | | | | | |
| 150 | 151 | | | | | | | | | | | | | | | | | | | | |
| 180 | 181 | | | | | | | | | | | | | | | | | | | | |
| 220 | 221 | | | | | | | | | | | | | | | | | | | | |
| 270 | 271 | | | | | | | | | | | | | | | | | | | | |
| 330 | 331 | | | | | | | | | | | | | | | | | | | | |
| 390 | 391 | | | | | | | | | | | | | | | | | | | | |
| 470 | 471 | | | | | | | | | | | | | | | | | | | | |
| 560 | 561 | | | | | | | | | | | | | | | | | | | | |
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| 1500 | 152 | | | | | | | | | | | | | | | | | | | | |
| 1800 | 182 | | | | | | | | | | | | | | | | | | | | |
| 2200 | 222 | | | | | | | | | | | | | | | | | | | | |
| 2700 | 272 | | | | | | | | | | | | | | | | | | | | |
| 3300 | 332 | | | | | | | | | | | | | | | | | | | | |
| 3900 | 392 | | | | | | | | | | | | | | | | | | | | |
| 4700 | 472 | | | | | | | | | | | | | | | | | | | | |
| 5600 | 562 | | | | | | | | | | | | | | | | | | | | |
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| 0.015 | 153 | | | | | | | | | | | | | | | | | | | | |
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| 0.027 | 273 | | | | | | | | | | | | | | | | | | | | |
| 0.033 | 333 | | | | | | | | | | | | | | | | | | | | |
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| 0.12 | 124 | | | | | | | | | | | | | | | | | | | | |
| 0.15 | 154 | | | | | | | | | | | | | | | | | | | | |
| 0.18 | 184 | | | | | | | | | | | | | | | | | | | | |
| 0.22 | 224 | | | | | | | | | | | | | | | | | | | | |
| 0.27 | 274 | | | | | | | | | | | | | | | | | | | | |
| 0.33 | 334 | | | | | | | | | | | | | | | | | | | | |
| 0.39 | 394 | | | | | | | | | | | | | | | | | | | | |
| 0.47 | 474 | | | | | | | | | | | | | | | | | | | | |
| 0.56 | 564 | | | | | | | | | | | | | | | | | | | | |
| 0.68 | 684 | | | | | | | | | | | | | | | | | | | | |
| 0.82 | 824 | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 105 | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 125 | | | | | | | | | | | | | | | | | | | | |
| 1.5 | 155 | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 185 | | | | | | | | | | | | | | | | | | | | |
| 2.0 | 205 | | | | | | | | | | | | | | | | | | | | |
| 2.2 | 225 | | | | | | | | | | | | | | | | | | | | |
| 2.7 | 275 | | | | | | | | | | | | | | | | | | | | |
| 3.3 | 335 | | | | | | | | | | | | | | | | | | | | |
| 3.9 | 395 | | | | | | | | | | | | | | | | | | | | |

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).



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Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

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