

# NOVACAP High Temperature Ceramic Capacitor

## X8R +150°C Keramik Kondensatoren

### Capacitance Range

| Bauform                                                                                            | Maße            | Rated Volt |  | Min    | X8R | Max    |
|----------------------------------------------------------------------------------------------------|-----------------|------------|--|--------|-----|--------|
| <b>0805</b><br>   | 2.0 x 1.2       | 25 Vdc     |  | 120 pF |     | 56 nF  |
|                                                                                                    |                 | 50 Vdc     |  | 120 pF |     | 47 nF  |
|                                                                                                    |                 | 100 Vdc    |  | 120 pF |     | 33 nF  |
|                                                                                                    |                 | 250 Vdc    |  | 120 pF |     | 18 nF  |
|                                                                                                    |                 | 500 Vdc    |  | 120 pF |     | 5.6 nF |
|                                                                                                    |                 | 630 Vdc    |  | 120 pF |     | 2.2 nF |
| <b>1206</b><br>   | 3.2 x 1.5<br>mm | 25 Vdc     |  | 220 pF |     | 180 nF |
|                                                                                                    |                 | 50 Vdc     |  | 220 pF |     | 150 nF |
|                                                                                                    |                 | 100 Vdc    |  | 220 pF |     | 100 nF |
|                                                                                                    |                 | 250 Vdc    |  | 220 pF |     | 33 nF  |
|                                                                                                    |                 | 500 Vdc    |  | 220 pF |     | 15 nF  |
|                                                                                                    |                 | 630 Vdc    |  | 220 pF |     | 10 nF  |
| <b>1210</b><br> | 3.2 x 2.5<br>mm | 25 Vdc     |  | 330 pF |     | 330 nF |
|                                                                                                    |                 | 50 Vdc     |  | 330 pF |     | 270 nF |
|                                                                                                    |                 | 100 Vdc    |  | 330 pF |     | 180 nF |
|                                                                                                    |                 | 250 Vdc    |  | 330 pF |     | 82 nF  |
|                                                                                                    |                 | 500 Vdc    |  | 330 pF |     | 39 nF  |
| <b>1812</b><br> | 4.5 x 3.2<br>mm | 25 Vdc     |  | 220 pF |     | 680 nF |
|                                                                                                    |                 | 50 Vdc     |  | 220 pF |     | 560 nF |
|                                                                                                    |                 | 100 Vdc    |  | 220 pF |     | 470 nF |
|                                                                                                    |                 | 250 Vdc    |  | 220 pF |     | 150 nF |
|                                                                                                    |                 | 500 Vdc    |  | 220 pF |     | 56 nF  |
|                                                                                                    |                 | 630 Vdc    |  | 220 pF |     | 47 nF  |
| <br><b>1825</b> | 4.5 x 6.3<br>mm | 25 Vdc     |  | 1.0 nF |     | 1.2 µF |
|                                                                                                    |                 | 50 Vdc     |  | 1.0 nF |     | 1.0 µF |
|                                                                                                    |                 | 100 Vdc    |  | 1.0 nF |     | 820 nF |
|                                                                                                    |                 | 250 Vdc    |  | 1.0 nF |     | 470 nF |
|                                                                                                    |                 | 500 Vdc    |  | 1.0 nF |     | 100 nF |
|                                                                                                    |                 | 630 Vdc    |  | 1.0 nF |     | 56 nF  |

<http://www.novacap.com/pdfs/X8R.pdf> Class II Data Sheet

| <b>0805</b><br>Bauform | <b>S</b><br>Dielectric | <b>222</b><br>Kapazität | <b>K</b><br>Toleranz | <b>500</b><br>Spannung | <b>C</b><br>Kontaktierung | <b>(X) T</b><br>Gurtung |
|------------------------|------------------------|-------------------------|----------------------|------------------------|---------------------------|-------------------------|
| 0805                   | S = X8R HT150          | 102 = 1 nF              | J = 5%               | 250 = 25V              | N = Nickel-               | T = gegurtet            |
| 1206                   | Class II               | 103 = 10nF              | K = 10%              | 500 = 50V              | Sperrschicht              |                         |
| 1210                   |                        | 104 = 100nF             |                      | 101 = 100V             | < RoHS                    | X = Dicke               |
| 1812                   |                        |                         |                      | 201 = 200V             | C = FlexiCap              | Non Standard            |
|                        |                        |                         |                      |                        | < RoHS                    |                         |

Aktuelle Preise auf Anfrage / Current Prices on Request

**NOVACAP** / Bredemeier Electronics GmbH

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# NOVACAP High Temperature Ceramic Capacitor

**NPO +160°C Class I, HTX+160°C Class II**

## Capacitance Range

| Bauform                                                                                            | Maße         | Rated Volt | Min NPO | Max    | Min Class II | Max    |
|----------------------------------------------------------------------------------------------------|--------------|------------|---------|--------|--------------|--------|
|                                                                                                    |              |            |         |        |              |        |
| <b>0402</b><br>   | 1.0 x 0.5 mm | 25 Vdc     | 1.0 pF  | 100 pF | 10 pF        | 4.7 nF |
|                                                                                                    |              | 50 Vdc     | 1.0 pF  | 82 pF  | 10 pF        | 3.3 nF |
|                                                                                                    |              | 100 Vdc    | 1.0 pF  | 27 pF  | 10 pF        | 1.0 nF |
|                                                                                                    |              | 250 Vdc    | 1.0 pF  | 8.2 pF | 10 pF        | 180 pF |
| <b>0603</b><br>   | 1.5 x 0.7 mm | 25 Vdc     | 1.0 pF  | 560 pF | 10 pF        | 22 nF  |
|                                                                                                    |              | 50 Vdc     | 1.0 pF  | 390 pF | 10 pF        | 15 nF  |
|                                                                                                    |              | 100 Vdc    | 1.0 pF  | 150 pF | 10 pF        | 4.7 nF |
|                                                                                                    |              | 250 Vdc    | 1.0 pF  | 68 pF  | 10 pF        | 1.0 nF |
| <b>0805</b><br>   | 2.0 x 1.2 mm | 25 Vdc     | 1.0 pF  | 2.7 nF | 10 pF        | 100 nF |
|                                                                                                    |              | 50 Vdc     | 1.0 pF  | 1.8 nF | 10 pF        | 47 nF  |
|                                                                                                    |              | 100 Vdc    | 1.0 pF  | 680 pF | 10 pF        | 18 nF  |
|                                                                                                    |              | 250 Vdc    | 1.0 pF  | 470 pF | 10 pF        | 4.7 nF |
|                                                                                                    |              | 500 Vdc    | 1.0 pF  | 180 pF | 10 pF        | 1.0 nF |
|                                                                                                    |              | 1000 Vdc   | 1.0 pF  | 47 nF  | 10 pF        | 180 pF |
| <b>1206</b><br> | 3.2 x 1.5 mm | 25 Vdc     | 5.0 pF  | 5.6 nF | 10 pF        | 220 nF |
|                                                                                                    |              | 50 Vdc     | 5.0 pF  | 3.9 nF | 10 pF        | 120 nF |
|                                                                                                    |              | 100 Vdc    | 5.0 pF  | 1.8 nF | 10 pF        | 47 nF  |
|                                                                                                    |              | 250 Vdc    | 5.0 pF  | 1.0 nF | 10 pF        | 10 nF  |
|                                                                                                    |              | 500 Vdc    | 5.0 pF  | 390 pF | 10 pF        | 2.2 nF |
|                                                                                                    |              | 1000 Vdc   | 5.0 pF  | 100 pF | 10 pF        | 390 pF |
| <b>1210</b><br> | 3.2 x 2.5 mm | 25 Vdc     | 10 pF   | 12 nF  | 10 pF        | 390 nF |
|                                                                                                    |              | 50 Vdc     | 10 pF   | 8.2 nF | 10 pF        | 220 nF |
|                                                                                                    |              | 100 Vdc    | 10 pF   | 3.3 nF | 10 pF        | 100 nF |
|                                                                                                    |              | 250 Vdc    | 10 pF   | 2.2 nF | 10 pF        | 27 nF  |
|                                                                                                    |              | 500 Vdc    | 10 pF   | 820 pF | 10 pF        | 5.6 nF |
| <b>1812</b><br> | 4.5 x 3.2 mm | 25 Vdc     | 22 pF   | 22 nF  | 22 pF        | 680 nF |
|                                                                                                    |              | 50 Vdc     | 22 pF   | 15 nF  | 22 pF        | 470 nF |
|                                                                                                    |              | 100 Vdc    | 22 pF   | 8.2 nF | 22 pF        | 150 nF |
|                                                                                                    |              | 250 Vdc    | 22 pF   | 5.6 nF | 22 pF        | 47 nF  |
|                                                                                                    |              | 500 Vdc    | 22 pF   | 2.2 nF | 22 pF        | 10 nF  |

[http://www.novacap.com/pdfs/HiTemp\\_COG.pdf](http://www.novacap.com/pdfs/HiTemp_COG.pdf) Class I Data sheet

[http://www.novacap.com/pdfs/HiTemp\\_ClassII.pdf](http://www.novacap.com/pdfs/HiTemp_ClassII.pdf) Class II Data Sheet

| <b>0805</b><br>Bauform | <b>G</b><br>Dielectric | <b>222</b><br>Kapazität | <b>K</b><br>Toleranz | <b>500</b><br>Spannung | <b>C</b><br>Kontaktierung | <b>(X) T</b><br>Gurtung |
|------------------------|------------------------|-------------------------|----------------------|------------------------|---------------------------|-------------------------|
| 0603                   | F = COG HT160          | 100 = 10pF              | F = 1%               | 250 = 25V              | N = Nickel-               | T = gegurtet            |
| 0805                   | G = HTX+160 °C         | 101 = 100pF             | G = 2%               | 500 = 50V              | Sperrschicht              |                         |
| 1206                   | Class II               | 102 = 1 nF              | J = 5%               | 101 = 100V             | < RoHS                    | X = Dicke               |
| 1210                   |                        | 103 = 10nF              | K = 10%              | 201 = 200V             | C = FlexiCap              | Non Standard            |
|                        |                        | 104 = 100nF             |                      | 251 = 250V             | < RoHS                    |                         |

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# NOVACAP High Temperature Ceramic Capacitor

**NPO +200°C Class I, HTX+200°C Class II**

## Capacitance Range

| Bauform                                                                                            | Maße         | Rated Volt | Min NPO | Max    | Min Class II | Max    |
|----------------------------------------------------------------------------------------------------|--------------|------------|---------|--------|--------------|--------|
| <b>0402</b><br>   | 1.0 x 0.5 mm | 25 Vdc     | 1.0 pF  | 100 pF | 10 pF        | 4.7 nF |
|                                                                                                    |              | 50 Vdc     | 1.0 pF  | 82 pF  | 10 pF        | 3.3 nF |
|                                                                                                    |              | 100 Vdc    | 1.0 pF  | 27 pF  | 10 pF        | 1.0 nF |
|                                                                                                    |              | 250 Vdc    | 1.0 pF  | 8.2 pF | 10 pF        | 180 pF |
| <b>0603</b><br>   | 1.5 x 0.7 mm | 25 Vdc     | 1.0 pF  | 560 pF | 10 pF        | 22 nF  |
|                                                                                                    |              | 50 Vdc     | 1.0 pF  | 390 pF | 10 pF        | 15 nF  |
|                                                                                                    |              | 100 Vdc    | 1.0 pF  | 150 pF | 10 pF        | 4.7 nF |
|                                                                                                    |              | 250 Vdc    | 1.0 pF  | 68 pF  | 10 pF        | 1.0 nF |
| <b>0805</b><br>   | 2.0 x 1.2 mm | 25 Vdc     | 1.0 pF  | 2.7 nF | 10 pF        | 100 nF |
|                                                                                                    |              | 50 Vdc     | 1.0 pF  | 1.8 nF | 10 pF        | 47 nF  |
|                                                                                                    |              | 100 Vdc    | 1.0 pF  | 680 pF | 10 pF        | 18 nF  |
|                                                                                                    |              | 250 Vdc    | 1.0 pF  | 470 pF | 10 pF        | 4.7 nF |
|                                                                                                    |              | 500 Vdc    | 1.0 pF  | 180 pF | 10 pF        | 1.0 nF |
|                                                                                                    |              | 1000 Vdc   | 1.0 pF  | 47 nF  | 10 pF        | 180 pF |
| <b>1206</b><br> | 3.2 x 1.5 mm | 25 Vdc     | 5.0 pF  | 5.6 nF | 10 pF        | 220 nF |
|                                                                                                    |              | 50 Vdc     | 5.0 pF  | 3.9 nF | 10 pF        | 120 nF |
|                                                                                                    |              | 100 Vdc    | 5.0 pF  | 1.8 nF | 10 pF        | 47 nF  |
|                                                                                                    |              | 250 Vdc    | 5.0 pF  | 1.0 nF | 10 pF        | 10 nF  |
|                                                                                                    |              | 500 Vdc    | 5.0 pF  | 390 pF | 10 pF        | 2.2 nF |
|                                                                                                    |              | 1000 Vdc   | 5.0 pF  | 100 pF | 10 pF        | 390 pF |
| <b>1210</b><br> | 3.2 x 2.5 mm | 25 Vdc     | 10 pF   | 12 nF  | 10 pF        | 390 nF |
|                                                                                                    |              | 50 Vdc     | 10 pF   | 8.2 nF | 10 pF        | 220 nF |
|                                                                                                    |              | 100 Vdc    | 10 pF   | 3.3 nF | 10 pF        | 100 nF |
|                                                                                                    |              | 250 Vdc    | 10 pF   | 2.2 nF | 10 pF        | 27 nF  |
|                                                                                                    |              | 500 Vdc    | 10 pF   | 820 pF | 10 pF        | 5.6 nF |
| <b>1812</b><br> | 4.5 x 3.2 mm | 25 Vdc     | 22 pF   | 22 nF  | 22 pF        | 680 nF |
|                                                                                                    |              | 50 Vdc     | 22 pF   | 15 nF  | 22 pF        | 470 nF |
|                                                                                                    |              | 100 Vdc    | 22 pF   | 8.2 nF | 22 pF        | 150 nF |
|                                                                                                    |              | 250 Vdc    | 22 pF   | 5.6 nF | 22 pF        | 47 nF  |
|                                                                                                    |              | 500 Vdc    | 22 pF   | 2.2 nF | 22 pF        | 10 nF  |

[http://www.novacap.com/pdfs/HiTemp\\_COG.pdf](http://www.novacap.com/pdfs/HiTemp_COG.pdf) Class I Data Sheet

[http://www.novacap.com/pdfs/HiTemp\\_ClassII.pdf](http://www.novacap.com/pdfs/HiTemp_ClassII.pdf) Class II Data Sheet

| <b>0805</b><br>Bauform | <b>E</b><br>Dielectric | <b>103</b><br>Kapazität | <b>K</b><br>Toleranz | <b>500</b><br>Spannung | <b>P</b><br>Kontaktierung | <b>(X) T</b><br>Gurtung |
|------------------------|------------------------|-------------------------|----------------------|------------------------|---------------------------|-------------------------|
| 0603                   | D = NPO HT200          | 102 = 1 nF              | F = 1%               | 250 = 25V              | P = Silber                | T = gegurtet            |
| 0805                   | E = HTX+200°C          | 103 = 10nF              | G = 2%               | 500 = 50V              | Palladium                 |                         |
| 1206                   | Class II               | 104 = 100nF             | J = 5%               | 101 = 100V             |                           | X = Dicke               |
| 1210                   |                        |                         | K = 10%              | 201 = 200V             |                           | Non Standard            |
|                        |                        |                         |                      | 251 = 250V             |                           |                         |

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# NOVACAP High Temperature Leaded

NPO+200 °C, Class I, HTX+200 °C, Class II

## Leaded Ceramic Capacitors

-55 °C to +200 °C



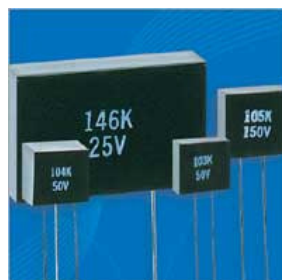
Epoxy Coated

[http://www.novacap.com/pdfs/Leaded\\_HiTemp\\_Epoxy.pdf](http://www.novacap.com/pdfs/Leaded_HiTemp_Epoxy.pdf)

Data Sheet, Datenblatt D= Class I, E= Class II

## Leaded Ceramic Capacitors

-55 °C to +200 °C



Encapsulated

[http://www.novacap.com/pdfs/Leaded\\_HiTemp\\_Encaps.pdf](http://www.novacap.com/pdfs/Leaded_HiTemp_Encaps.pdf)

Data Sheet, Datenblatt D= Class I, E= Class II

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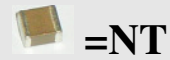
# NOVACAP Ceramic Capacitor Termination

## Keramik Chip Kondensatoren

### Nickel, RoHS

**Nickel Sperrschicht Termination (Ni/Sn)**  
for Standard Applications for all types and sizes

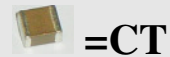
### Suffix



### FlexiCap, RoHS

**FlexiCap Termination (Flex/Ni/Sn)**  
for Boardflex Sensitive Applications.  
X7R, Y5V, X8R, HTX+160°C

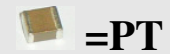
### Suffix



### Palladium Silber

**Silver Palladium Termination (AgPd)**  
for all ceramic types and sizes.available

### Suffix



### Verbleit, Standard, Sn/Pb

**Lead Termination (Ni/Sn/Pb)**  
for applications where Sn/Pb is  
required. Sn/Pb for all ceramic types and sizes.

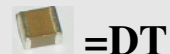
### Suffix



### Verbleit, FlexiCap, Sn/Pb

**FlexiCap & Lead Termination (Flex/Ni/Sn/Pb)**  
for Boardflex Sensitive Applications.  
X7R, Y5V, X8R, HTX+160°C

### Suffix



### Gold Plated

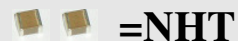
**Gold Termination, Au**  
Gold plated for all ceramic types available

### Suffix



### Nickel + High Rel Testing

**Nickel Sperrschicht + HighRel**  
Ni/Sn Termination including High Rel Testing



#### Applications

- Power Supplies, DC/DC Converter, Automation, Medical
- Industrial, Automotive, Military, Aerospace

#### Key Features

- Long Term Deliveries with optional Termination systems
- Variety of Terminations for all Kinds of Applications

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