



MULTILAYER CERAMIC CHIP CAPACITORS

C Series Commercial Grade Mid Voltage (100 to 630V)

Type:

C1005 [EIA CC0402]
C1608 [EIA CC0603]
C2012 [EIA CC0805]
C3216 [EIA CC1206]
C3225 [EIA CC1210]
C4532 [EIA CC1812]
C5750 [EIA CC2220]

Issue date:
Mar 2015



REMINDERS

Please read before using this product

SAFETY REMINDERS



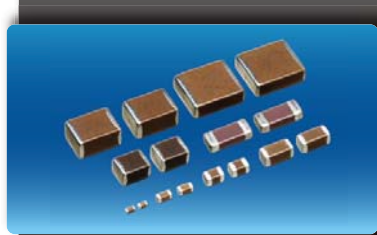
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Notice: Effective January 2013, TDK will use a new catalog number which adds product thickness and packaging specification detail. This new catalog number should be referenced on all catalog orders going forward, and is not applicable for OEM part number orders. Please be aware the last five digits of the catalog number will differ from the item description (internal control number) on the product label. Contact your local TDK Sales representative for more information.

(Example)

| Catalog Issued date | Catalog Number | Item Description (On Delivery Label) |
|------------------------|---------------------|--------------------------------------|
| Prior to January 2013 | C1608C0G1E103J | C1608C0G1E103JT000N |
| January 2013 and Later | C1608C0G1E103J080AA | C1608C0G1E103JT000N |



C Series Mid Voltage (100 to 630V)

Type: C1005 [EIA CC0402], C1608 [EIA CC0603], C2012 [EIA CC0805], C3216 [EIA CC1206], C3225 [EIA CC1210], C4532 [EIA CC1812], C5750 [EIA CC2220]

Features



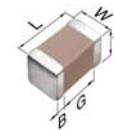
- Voltage rating of 100V to 630V with capacitance range up to 15 μ F.
- High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers.
- Low residual inductance assures superior frequency characteristics.
- Excellent DC Bias properties.
- A lineup with wide-ranging rated voltages that enables selections that are suitable for needs.

Applications



- Snubber in power supply
- Electric flash circuits in digital still camera
- Power factor improvement
- Input-output filter in power supply
- Driver circuit in plasma display
- Noise bypass

Shape & Dimensions



| | |
|---|------------------|
| L | Body Length |
| W | Body Width |
| T | Body Height |
| B | Terminal Width |
| G | Terminal Spacing |



Catalog Number Construction

C • **3225** • **X7R** • **2A** • **105** • **K** • **200** • **A** • **A**

Series Name

Dimensions L x W (mm)

| Code | Length | Width | Terminal |
|-------|-----------------|-----------------|-----------|
| C1005 | 1.00 \pm 0.05 | 0.50 \pm 0.05 | 0.10 min. |
| C1608 | 1.60 \pm 0.10 | 0.80 \pm 0.10 | 0.20 min. |
| C2012 | 2.00 \pm 0.20 | 1.25 \pm 0.20 | 0.20 min. |
| C3216 | 3.20 \pm 0.20 | 1.60 \pm 0.20 | 0.20 min. |
| C3225 | 3.20 \pm 0.40 | 2.50 \pm 0.30 | 0.20 min. |
| C4532 | 4.50 \pm 0.40 | 3.20 \pm 0.40 | 0.20 min. |
| C5750 | 5.70 \pm 0.40 | 5.00 \pm 0.40 | 0.20 min. |

*Dimension tolerance are typical values

Temperature Characteristics

| Temperature Characteristics | Temperature Coefficient or Capacitance Change | Temperature Range |
|-----------------------------|---|--------------------------|
| CH | 0 \pm 60 ppm/ $^{\circ}$ C | -25 to +85 $^{\circ}$ C |
| COG | 0 \pm 30 ppm/ $^{\circ}$ C | -55 to +125 $^{\circ}$ C |
| JB | \pm 10% | -25 to +85 $^{\circ}$ C |
| X5R | \pm 15% | -55 to +85 $^{\circ}$ C |
| X6S | \pm 22% | -55 to +105 $^{\circ}$ C |
| X7R | \pm 15% | -55 to +125 $^{\circ}$ C |
| X7S | \pm 22% | -55 to +125 $^{\circ}$ C |
| X7T | +22/-33% | -55 to +125 $^{\circ}$ C |

Rated Voltage (DC)

| Code | Voltage (DC) |
|------|--------------|
| 2A | 100V |
| 2E | 250V |
| 2V | 350V |
| 2W | 450V |
| 2J | 630V |

Nominal Capacitance (pF)

The capacitance is expressed in three digit codes and in units of pico Farads (pF). The first and second digits identify the first and second significant figures of the capacitance. The third digit identifies the multiplier. R designates a decimal point.
Ex. 0R2 = 0.2pF; 103 = 10,000pF; 105 = 1,000,000pF = 100nF

Capacitance Tolerance

| Code | Tolerance |
|------|--------------|
| C | \pm 0.25pF |
| D | \pm 0.50pF |
| F | \pm 1% |
| G | \pm 2% |
| J | \pm 5% |
| K | \pm 10% |
| M | \pm 20% |

Nominal Thickness

| Code | Thickness | Code | Thickness |
|------|-----------|------|-----------|
| 050 | 0.50 mm | 130 | 1.30 mm |
| 060 | 0.60 mm | 160 | 1.60 mm |
| 080 | 0.80 mm | 200 | 2.00 mm |
| 085 | 0.85 mm | 230 | 2.30 mm |
| 115 | 1.15 mm | 250 | 2.50 mm |
| 125 | 1.25 mm | 280 | 2.80 mm |
| | | 320 | 3.20 mm |

Packaging Style

| Code | Style |
|------|-------------------------|
| A | 178 mm Reel, 4 mm Pitch |
| B | 178 mm Reel, 2 mm Pitch |
| K | 178 mm Reel, 8 mm Pitch |

Special Reserved Code

| Code | Description |
|---------|-------------------|
| A, B, C | TDK Internal Code |



Capacitance Range Chart

EIA CC0402 [C1005]

Capacitance Range Chart

Temperature Characteristics: C0G ($0 \pm 30\text{ppm}/^\circ\text{C}$), CH ($0 \pm 60\text{ppm}/^\circ\text{C}$), X7S
 Rated Voltage: 100V (2A)

| Capacitance (pF) | Code | Tolerance | C0G | CH | X7S | |
|------------------|------|--|-----------|-----------|-----------|---|
| | | | 2A (100V) | 2A (100V) | 2A (100V) | |
| 100 | 101 | J: $\pm 5\%$ K: $\pm 10\%$ M: $\pm 20\%$ | ■ | ■ | | |
| 120 | 121 | | | | | |
| 150 | 151 | | | | | |
| 180 | 181 | | | | | |
| 220 | 221 | | | | | |
| 270 | 271 | | | | | |
| 330 | 331 | | | | | |
| 390 | 391 | | | | | |
| 470 | 471 | | | | | |
| 560 | 561 | | | | | |
| 680 | 681 | | | | | |
| 820 | 821 | | | | | |
| 1,000 | 102 | | | | | ■ |
| 1,500 | 152 | | | | | |
| 2,200 | 222 | | | | | |
| 3,300 | 332 | | | | | |
| 4,700 | 472 | | | | | |
| 6,800 | 682 | | | | | |
| 10,000 | 103 | | | ■ | | |

Standard Thickness
 ■ 0.50 mm



Capacitance Range Chart

EIA CC0603 [C1608]

Capacitance Range Chart

Temperature Characteristics: C0G ($0 \pm 30\text{ppm}/^\circ\text{C}$), CH ($0 \pm 60\text{ppm}/^\circ\text{C}$), JB ($\pm 10\%$), X5R ($\pm 15\%$), X7R ($\pm 15\%$), X7S ($\pm 22\%$)
 Rated Voltage: 250V (2E), 100V (2A)

| Capacitance (pF) | Code | Tolerance | C0G | | CH | | JB | X5R | X7R | X7S |
|------------------|------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 2E (250V) | 2A (100V) | 2E (250V) | 2A (100V) | 2A (100V) | 2A (100V) | 2A (100V) | 2A (100V) |
| 1 | 010 | C : $\pm 0.25\text{pF}$ | | | | | | | | |
| 1.5 | 1R5 | D : $\pm 0.50\text{pF}$ | | | | | | | | |
| 2 | 020 | F : $\pm 1\%$ | | | | | | | | |
| 2.2 | 2R2 | G : $\pm 2\%$ | | | | | | | | |
| 3 | 030 | J : $\pm 5\%$ | | | | | | | | |
| 3.3 | 3R3 | K : $\pm 10\%$ | | | | | | | | |
| 4 | 040 | M : $\pm 20\%$ | | | | | | | | |
| 4.7 | 4R7 | | | | | | | | | |
| 5 | 050 | | | | | | | | | |
| 6 | 060 | | | | | | | | | |
| 6.8 | 6R8 | | | | | | | | | |
| 7 | 070 | | | | | | | | | |
| 8 | 080 | | | | | | | | | |
| 9 | 090 | | | | | | | | | |
| 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 | | █ | | █ | | | | | |
| 1,000 | 102 | | | | | █ | █ | █ | | |
| 1,200 | 122 | | | | | █ | █ | █ | | |
| 1,500 | 152 | | | | | █ | █ | █ | | |
| 1,800 | 182 | | | | | █ | █ | █ | | |
| 2,200 | 222 | | | | | █ | █ | █ | | |
| 2,700 | 272 | | | | | █ | █ | █ | | |
| 3,300 | 332 | | | | | █ | █ | █ | | |
| 3,900 | 392 | | | | | █ | █ | █ | | |
| 4,700 | 472 | | | | | █ | █ | █ | | |
| 5,600 | 562 | | | | | █ | █ | █ | | |
| 6,800 | 682 | | | | | █ | █ | █ | | |
| 8,200 | 822 | | | | | █ | █ | █ | | |
| 10,000 | 103 | | | | | █ | █ | █ | | |
| 15,000 | 153 | | | | | █ | █ | █ | | |
| 22,000 | 223 | | | | | █ | █ | █ | | |
| 33,000 | 333 | | | | | | | | █ | |
| 47,000 | 473 | | | | | | | | | █ |
| 68,000 | 683 | | | | | | | | | █ |
| 100,000 | 104 | | | | | | | | | █ |

Standard Thickness
 0.80 mm

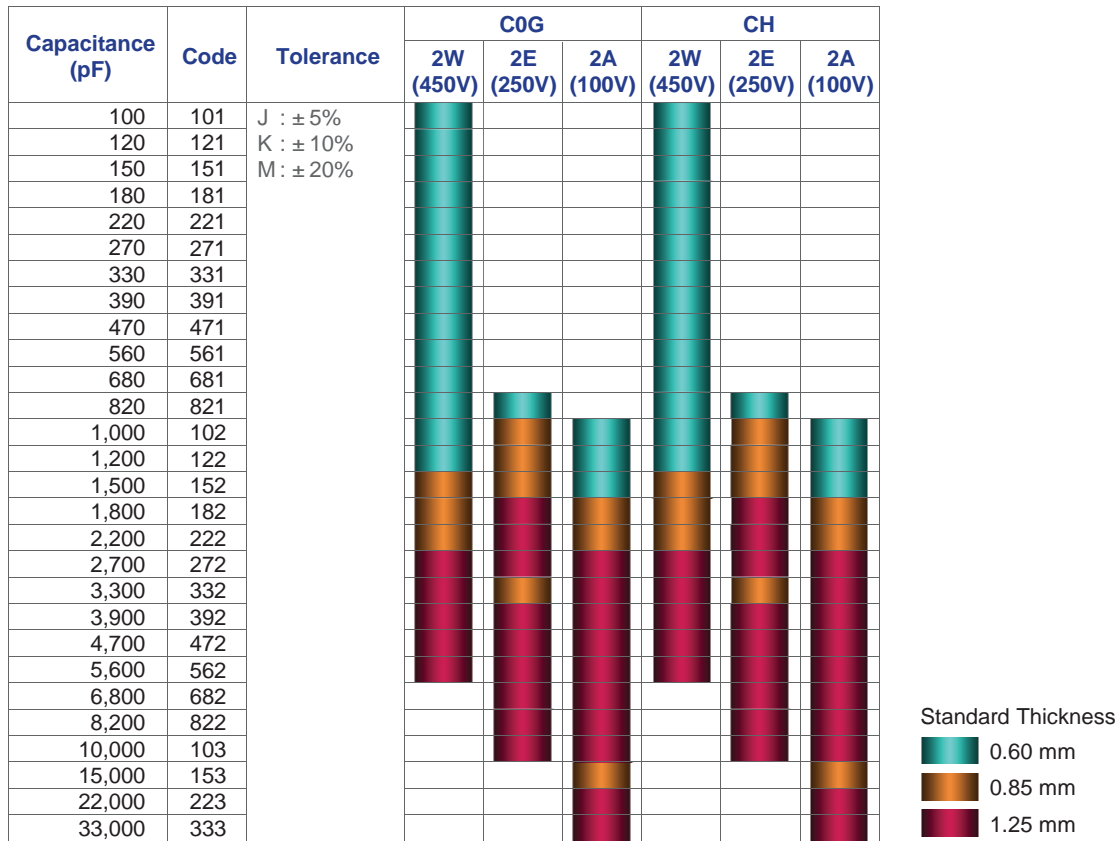


Capacitance Range Chart

EIA CC0805 [C2012]

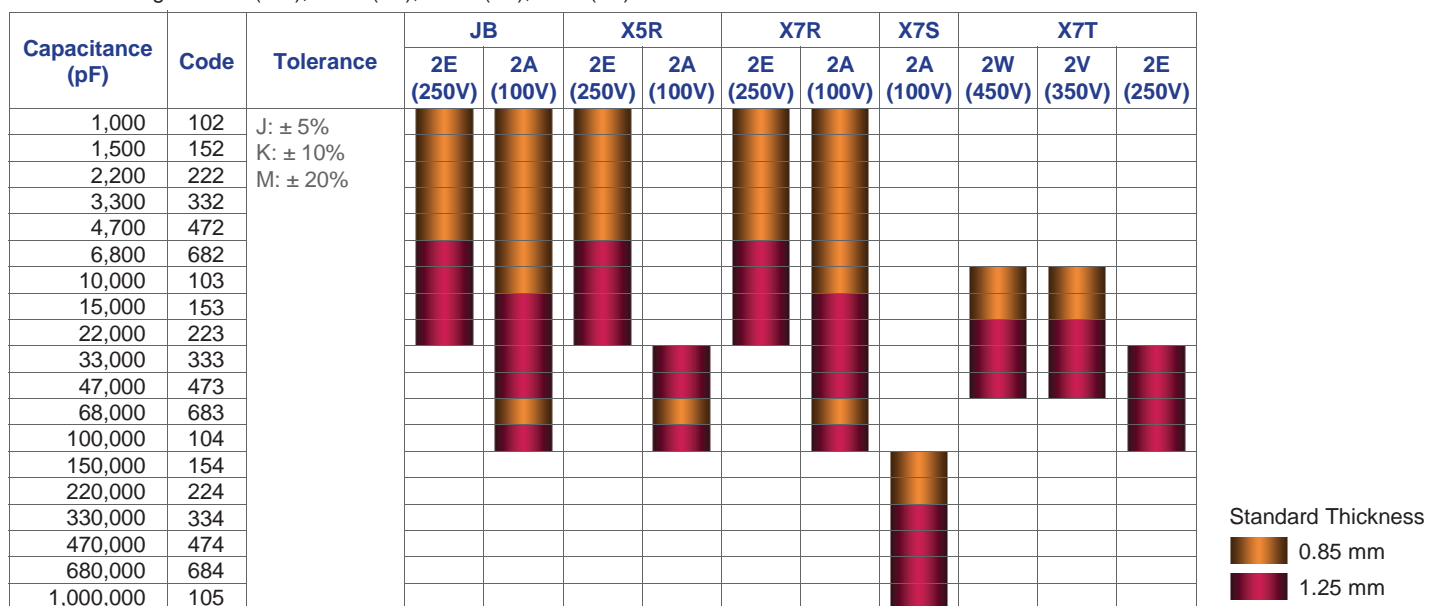
Capacitance Range Chart

Temperature Characteristics: C0G ($0 \pm 30\text{ppm}/^\circ\text{C}$), CH ($0 \pm 60\text{ppm}/^\circ\text{C}$)
 Rated Voltage: 450V (2W), 250V (2E), 100V (2A)



Capacitance Range Chart

Temperature Characteristics: JB ($\pm 10\%$), X5R ($\pm 15\%$), X7R ($\pm 15\%$), X7S ($\pm 22\%$), X7T ($+22/-33\%$)
 Rated Voltage: 450V (2W), 350V (2V), 250V (2E), 100V (2A)



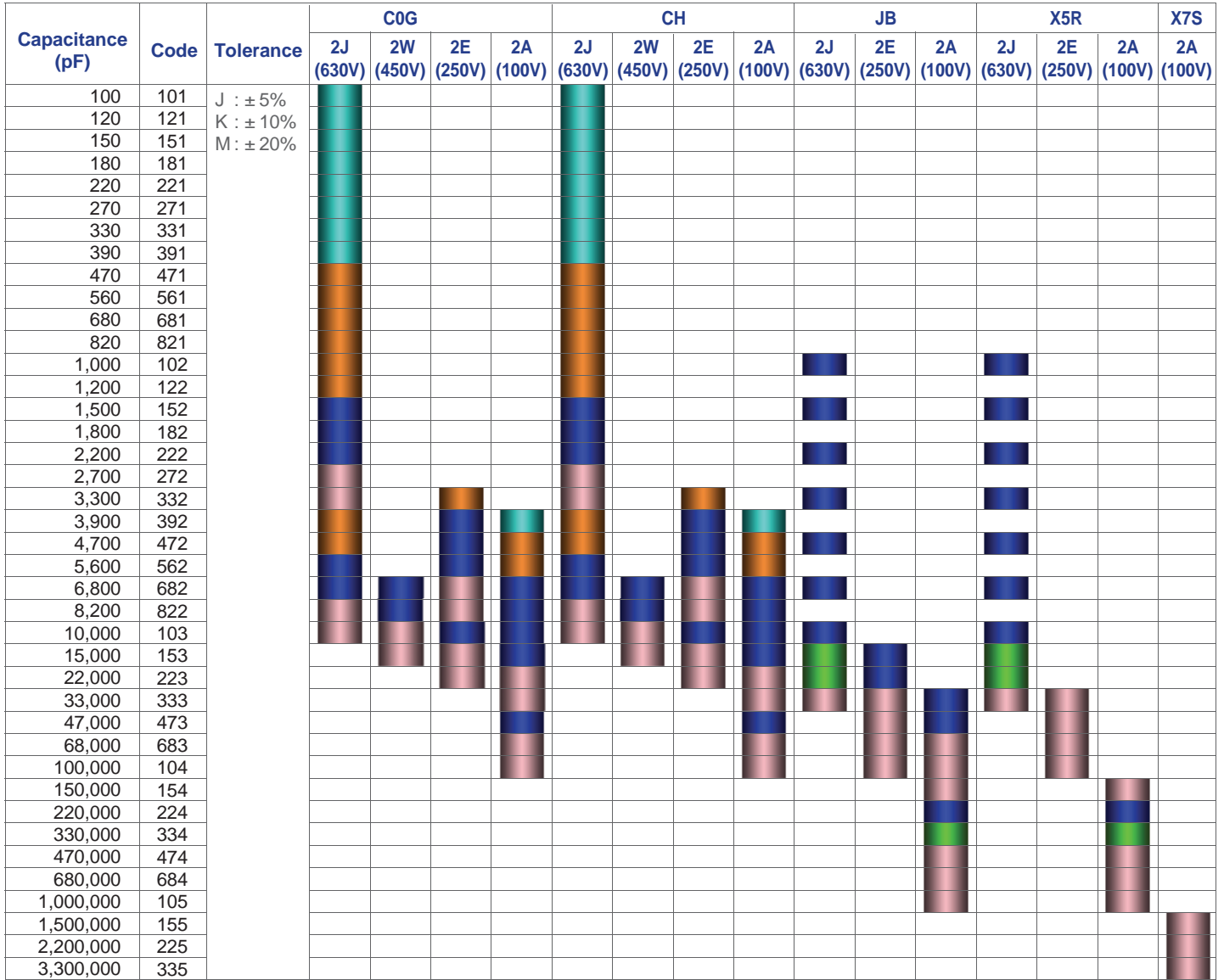


Capacitance Range Chart

EIA CC1206 [C3216]

Capacitance Range Chart

Temperature Characteristics: C0G (0 ± 30ppm/°C), CH (0 ± 60ppm/°C), JB (±10%), X5R (±15%), X7S (±22%)
 Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A)



Standard Thickness





Capacitance Range Chart

EIA CC1206 [C3216]

Capacitance Range Chart

Temperature Characteristics: X7R ($\pm 15\%$), X7S ($\pm 22\%$), X7T ($+22/-33\%$)
 Rated Voltage: 630V (2J), 450V (2W), 350V (2V), 250V (2E), 100V (2A)

| Capacitance (pF) | Code | Tolerance | X7R | | | X7T | | | |
|------------------|------|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 2J (630V) | 2E (250V) | 2A (100V) | 2J (630V) | 2W (450V) | 2V (350V) | 2E (250V) |
| 1,000 | 102 | K: $\pm 10\%$ M: $\pm 20\%$ | ■ | | | | | | |
| 1,500 | 152 | | | | | | | | |
| 2,200 | 222 | | | | | | | | |
| 3,300 | 332 | | | | | | | | |
| 4,700 | 472 | | | | | | | | |
| 6,800 | 682 | | | | | | | | |
| 10,000 | 103 | | | | | ■ | | | |
| 15,000 | 153 | | ■ | | | | | | |
| 22,000 | 223 | | ■ | ■ | | ■ | | | |
| 33,000 | 333 | | ■ | ■ | | ■ | | | |
| 47,000 | 473 | | | | ■ | | | | |
| 68,000 | 683 | | | ■ | | | | | |
| 100,000 | 104 | | | ■ | | | ■ | ■ | |
| 150,000 | 154 | | | | | | | | ■ |
| 220,000 | 224 | | | | ■ | | | | |
| 330,000 | 334 | | | | ■ | | | | |
| 470,000 | 474 | | | | ■ | | | | |
| 680,000 | 684 | | | | ■ | | | | |
| 1,000,000 | 105 | | | | ■ | | | | |

Standard Thickness

- 0.85 mm
- 1.15 mm
- 1.30 mm
- 1.60 mm

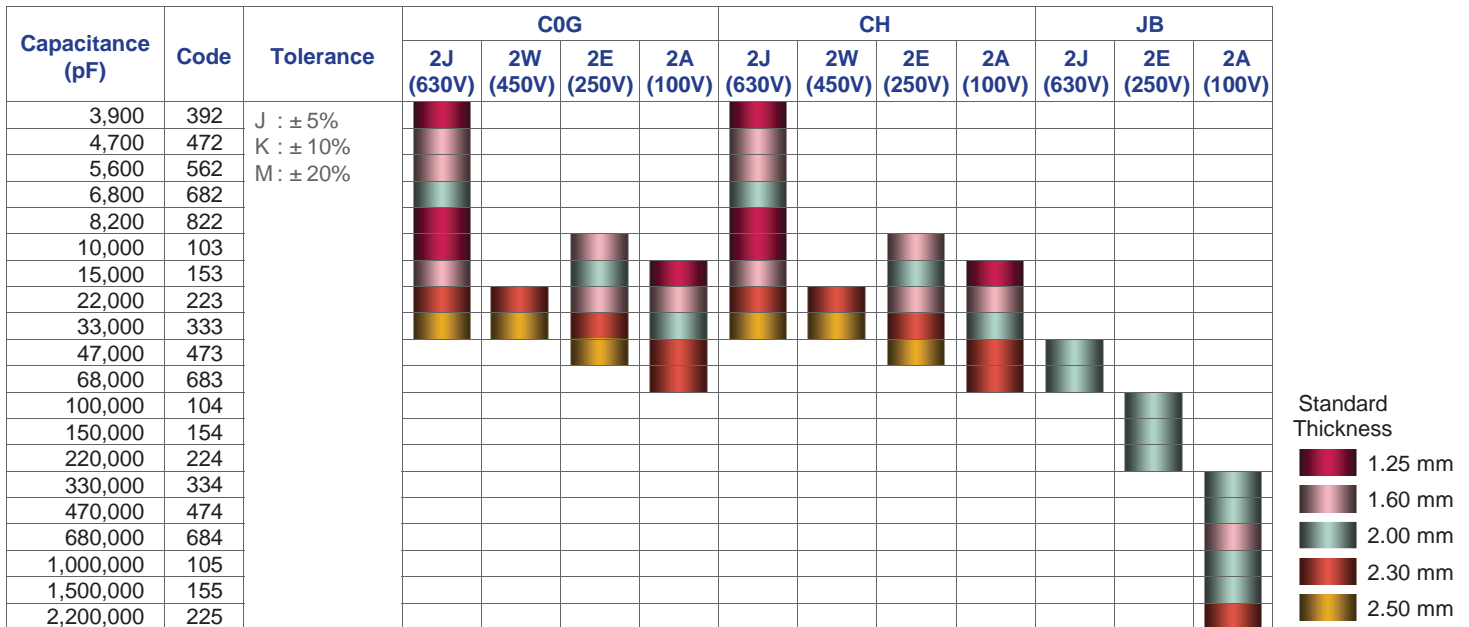


Capacitance Range Chart

EIA CC1210 [C3225]

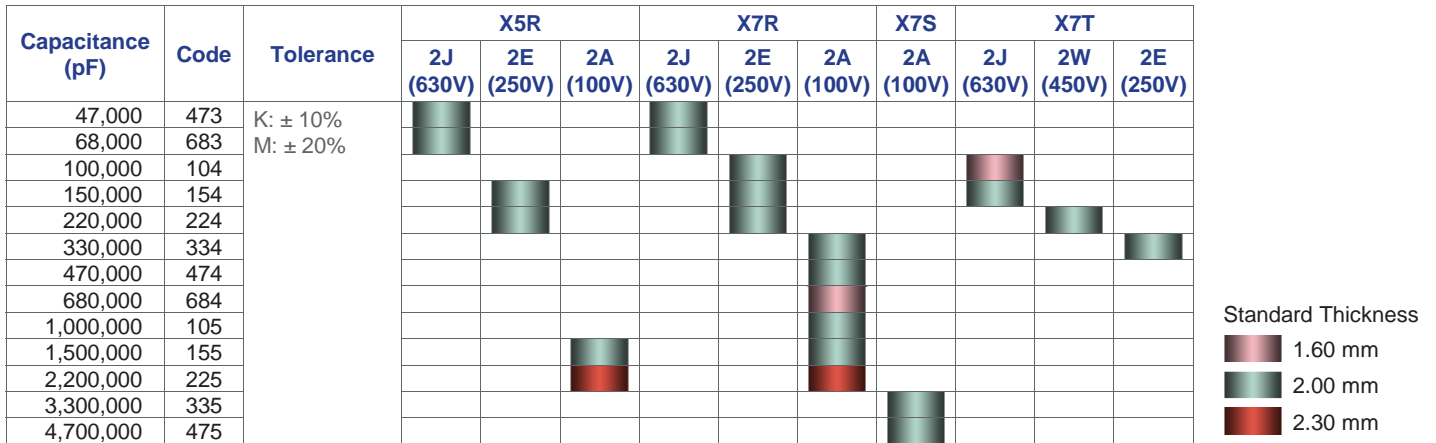
Capacitance Range Chart

Temperature Characteristics: C0G ($0 \pm 30\text{ppm}/^\circ\text{C}$), CH ($0 \pm 60\text{ppm}/^\circ\text{C}$), JB ($\pm 10\%$)
 Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A)



Capacitance Range Chart

Temperature Characteristics: X5R ($\pm 15\%$), X7R ($\pm 15\%$), X7S ($\pm 22\%$), X7T ($+22/-33\%$)
 Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A)





Capacitance Range Chart

EIA CC1812 [C4532]

Capacitance Range Chart

Temperature Characteristics: C0G ($0 \pm 30\text{ppm}/^\circ\text{C}$), CH ($0 \pm 60\text{ppm}/^\circ\text{C}$), JB ($\pm 10\%$)
 Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A)

| Capacitance (pF) | Code | Tolerance | C0G | | | | CH | | | | JB | | | Standard Thickness | |
|------------------|------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|---|
| | | | 2J (630V) | 2W (450V) | 2E (250V) | 2A (100V) | 2J (630V) | 2W (450V) | 2E (250V) | 2A (100V) | 2J (630V) | 2E (250V) | 2A (100V) | | |
| 8,200 | 822 | J : $\pm 5\%$ | ■ | | | | ■ | | | | | | | | |
| 10,000 | 103 | K : $\pm 10\%$ | ■ | | | | ■ | | | | | | | | |
| 15,000 | 153 | M : $\pm 20\%$ | ■ | | | | ■ | | | | | | | | |
| 22,000 | 223 | | ■ | | | | ■ | | | | | | | | |
| 33,000 | 333 | | ■ | | | | ■ | | | | | | | | |
| 47,000 | 473 | | ■ | ■ | | ■ | ■ | | | ■ | | | | | |
| 68,000 | 683 | | | ■ | | ■ | ■ | | | ■ | | | | | |
| 100,000 | 104 | | | | | ■ | ■ | | | ■ | | | | | |
| 150,000 | 154 | | | | | | | | | | | | | | |
| 220,000 | 224 | | | | | | | | | | | | ■ | | |
| 330,000 | 334 | | | | | | | | | | | | | | |
| 680,000 | 684 | | | | | | | | | | | | | | |
| 1,000,000 | 105 | | | | | | | | | | | | | | |
| 1,500,000 | 155 | | | | | | | | | | | | | | |
| 2,200,000 | 225 | | | | | | | | | | | | | | ■ |

Capacitance Range Chart

Temperature Characteristics: X5R ($\pm 15\%$), X7R ($\pm 15\%$), X7S ($\pm 22\%$), X7T ($+22\%/-33\%$)
 Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A)

| Capacitance (pF) | Code | Tolerance | X5R | | X7R | | X7S | X7T | | | Standard Thickness | |
|------------------|------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|
| | | | 2J (630V) | 2E (250V) | 2J (630V) | 2E (250V) | 2A (100V) | 2A (100V) | 2J (630V) | 2W (450V) | | 2E (250V) |
| 68,000 | 683 | K : $\pm 10\%$ | | | ■ | | | | | | | |
| 100,000 | 104 | M : $\pm 20\%$ | ■ | | ■ | | | | | | | |
| 150,000 | 154 | | | | | ■ | | | | ■ | | |
| 220,000 | 224 | | | | | | | | | ■ | | |
| 300,000 | 304 | | | | | | | | | ■ | | |
| 330,000 | 334 | | | ■ | | ■ | | | | ■ | | |
| 470,000 | 474 | | | ■ | | ■ | | | | ■ | | |
| 680,000 | 684 | | | | | | | | | | | |
| 1,000,000 | 105 | | | | | | | | | | | |
| 1,500,000 | 155 | | | | | | | | | | | |
| 2,200,000 | 225 | | | | | | | | | | | |
| 3,300,000 | 335 | | | | | | | | | | | |
| 4,700,000 | 475 | | | | | | | | | | | |



Capacitance Range Chart

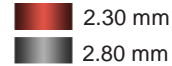
EIA CC2220 [C5750]

Capacitance Range Chart

Temperature Characteristics: C0G (0 ±30ppm/°C), CH (0 ±60ppm/°C)
 Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A)

| Capacitance (pF) | Code | Tolerance | C0G | | | | CH | | | |
|------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 2J (630V) | 2W (450V) | 2E (250V) | 2A (100V) | 2J (630V) | 2W (450V) | 2E (250V) | 2A (100V) |
| 68,000 | 683 | K : ± 10% | ■ | | | | ■ | | | |
| 100,000 | 104 | J : ± 5% | ■ | ■ | | | ■ | ■ | | |
| 150,000 | 154 | | | | ■ | ■ | | | ■ | ■ |

Standard Thickness

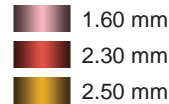


Capacitance Range Chart

Temperature Characteristics: JB (±10%), X5R (±15%), X6S (±22%)
 Rated Voltage: 630V (2J), 250V (2E), 100V (2A)

| Capacitance (pF) | Code | Tolerance | JB | | | X5R | | | X6S |
|------------------|------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 2J (630V) | 2E (250V) | 2A (100V) | 2J (630V) | 2E (250V) | 2A (100V) | 2W (450V) |
| 150,000 | 154 | K: ± 10% M: ± 20% | ■ | | | ■ | | | |
| 220,000 | 224 | | | | | | | | |
| 330,000 | 334 | | | ■ | | | | | |
| 470,000 | 474 | | | ■ | | | | | |
| 680,000 | 684 | | | ■ | | | ■ | | |
| 1,000,000 | 105 | | | | | | | ■ | |
| 1,500,000 | 155 | | | | | | | ■ | |
| 2,200,000 | 225 | | | | | | | ■ | |
| 3,300,000 | 335 | | | | | | | ■ | |
| 4,700,000 | 475 | | | | | | | ■ | |

Standard Thickness

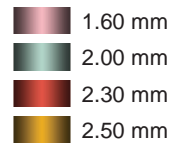


Capacitance Range Chart

Temperature Characteristics: X7R (±15%), X7S (±22%), X7T (+22/-33%)
 Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A)

| Capacitance (pF) | Code | Tolerance | X7R | | | X7S | X7T | | |
|------------------|------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 2J (630V) | 2E (250V) | 2A (100V) | 2A (100V) | 2J (630V) | 2W (450V) | 2E (250V) |
| 150,000 | 154 | K: ± 10% M: ± 20% | ■ | | | | | | |
| 220,000 | 224 | | | | | | | | |
| 330,000 | 334 | | | ■ | | | ■ | | |
| 470,000 | 474 | | | ■ | | | ■ | | |
| 680,000 | 684 | | | ■ | | | ■ | | |
| 1,000,000 | 105 | | | | | | | ■ | |
| 1,500,000 | 155 | | | | | | | ■ | |
| 2,200,000 | 225 | | | | | | | ■ | |
| 3,300,000 | 335 | | | | | | | ■ | |
| 4,700,000 | 475 | | | | | | | ■ | |
| 6,800,000 | 685 | | | | | | | ■ | |
| 10,000,000 | 106 | | | | | | | ■ | |
| 15,000,000 | 156 | | | | | | | ■ | |

Standard Thickness





Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: C0G (-55 to +125°C, 0±30 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 1 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608C0G2A010C080AA |
| 1.5 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608C0G2A1R5C080AA |
| 2 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608C0G2A020C080AA |
| 2.2 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608C0G2A2R2C080AA |
| 3 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608C0G2A030C080AA |
| 3.3 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608C0G2A3R3C080AA |
| 4 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608C0G2A040C080AA |
| 4.7 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608C0G2A4R7C080AA |
| 5 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608C0G2A050C080AA |
| 6 pF | 1608 | 0.80 ± 0.10 | ± 0.50pF | | | | C1608C0G2A060D080AA |
| 6.8 pF | 1608 | 0.80 ± 0.10 | ± 0.50pF | | | | C1608C0G2A6R8D080AA |
| 7 pF | 1608 | 0.80 ± 0.10 | ± 0.50pF | | | | C1608C0G2A070D080AA |
| 8 pF | 1608 | 0.80 ± 0.10 | ± 0.50pF | | | | C1608C0G2A080D080AA |
| 9 pF | 1608 | 0.80 ± 0.10 | ± 0.50pF | | | | C1608C0G2A090D080AA |
| 10 pF | 1608 | 0.80 ± 0.10 | ± 0.50pF | | | | C1608C0G2A100D080AA |
| 12 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608C0G2A120J080AA |
| 15 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608C0G2A150J080AA |
| 18 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608C0G2A180J080AA |
| 22 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608C0G2A220J080AA |
| 27 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608C0G2A270J080AA |
| 33 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608C0G2A330J080AA |
| 39 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608C0G2A390J080AA |
| 47 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608C0G2A470J080AA |
| 56 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608C0G2A560J080AA |
| 68 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608C0G2A680J080AA |
| 82 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608C0G2A820J080AA |
| 100 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A101K050BA |
| | | | ± 5% | | | | C1005C0G2A101J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E101K080AA | C1608C0G2A101K080AA |
| | | | ± 5% | | | C1608C0G2E101J080AA | C1608C0G2A101J080AA |
| | | | ± 2% | | | | C1608C0G2A101G080AA |
| | | | ± 1% | | | | C1608C0G2A101F080AA |
| | | | ± 10% | | | C2012C0G2W101K060AA | |
| | | | ± 5% | | | C2012C0G2W101J060AA | |
| | 2012 | 0.60 ± 0.15 | ± 10% | | | C3216C0G2J101K060AA | |
| | | | ± 5% | | | C3216C0G2J101J060AA | |
| 3216 | 0.60 ± 0.15 | ± 10% | | | | | |
| | | ± 5% | | | | | |
| 120 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A121K050BA |
| | | | ± 5% | | | | C1005C0G2A121J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E121K080AA | C1608C0G2A121K080AA |
| | | | ± 5% | | | C1608C0G2E121J080AA | C1608C0G2A121J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | | C2012C0G2W121K060AA | |
| | | | ± 5% | | | C2012C0G2W121J060AA | |
| 3216 | 0.60 ± 0.15 | ± 10% | | | C3216C0G2J121K060AA | | |
| | | ± 5% | | | C3216C0G2J121J060AA | | |
| 150 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A151K050BA |
| | | | ± 5% | | | | C1005C0G2A151J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E151K080AA | C1608C0G2A151K080AA |
| | | | ± 5% | | | C1608C0G2E151J080AA | C1608C0G2A151J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | | C2012C0G2W151K060AA | |
| | | | ± 5% | | | C2012C0G2W151J060AA | |
| 3216 | 0.60 ± 0.15 | ± 10% | | | C3216C0G2J151K060AA | | |
| | | ± 5% | | | C3216C0G2J151J060AA | | |
| 180 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A181K050BA |
| | | | ± 5% | | | | C1005C0G2A181J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E181K080AA | C1608C0G2A181K080AA |
| | | | ± 5% | | | C1608C0G2E181J080AA | C1608C0G2A181J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | | C2012C0G2W181K060AA | |
| | | | ± 5% | | | C2012C0G2W181J060AA | |
| 3216 | 0.60 ± 0.15 | ± 10% | | | C3216C0G2J181K060AA | | |
| | | ± 5% | | | C3216C0G2J181J060AA | | |



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: C0G (-55 to +125°C, 0±30 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 220 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A221K050BA |
| | | | ± 5% | | | | C1005C0G2A221J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E221K080AA | C1608C0G2A221K080AA |
| | | | ± 5% | | C1608C0G2E221J080AA | C1608C0G2A221J080AA | |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012C0G2W221K060AA | | |
| | | ± 5% | | C2012C0G2W221J060AA | | | |
| | 3216 | 0.60 ± 0.15 | ± 10% | C3216C0G2J221K060AA | | | |
| | | | ± 5% | C3216C0G2J221J060AA | | | |
| 270 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A271K050BA |
| | | | ± 5% | | | | C1005C0G2A271J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E271K080AA | C1608C0G2A271K080AA |
| | | | ± 5% | | C1608C0G2E271J080AA | C1608C0G2A271J080AA | |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012C0G2W271K060AA | | |
| | | ± 5% | | C2012C0G2W271J060AA | | | |
| | 3216 | 0.60 ± 0.15 | ± 10% | C3216C0G2J271K060AA | | | |
| | | | ± 5% | C3216C0G2J271J060AA | | | |
| 330 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A331K050BA |
| | | | ± 5% | | | | C1005C0G2A331J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E331K080AA | C1608C0G2A331K080AA |
| | | | ± 5% | | C1608C0G2E331J080AA | C1608C0G2A331J080AA | |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012C0G2W331K060AA | | |
| | | ± 5% | | C2012C0G2W331J060AA | | | |
| | 3216 | 0.60 ± 0.15 | ± 10% | C3216C0G2J331K060AA | | | |
| | | | ± 5% | C3216C0G2J331J060AA | | | |
| 390 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A391K050BA |
| | | | ± 5% | | | | C1005C0G2A391J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E391K080AA | C1608C0G2A391K080AA |
| | | | ± 5% | | C1608C0G2E391J080AA | C1608C0G2A391J080AA | |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012C0G2W391K060AA | | |
| | | ± 5% | | C2012C0G2W391J060AA | | | |
| | 3216 | 0.60 ± 0.15 | ± 10% | C3216C0G2J391K060AA | | | |
| | | | ± 5% | C3216C0G2J391J060AA | | | |
| 470 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A471K050BA |
| | | | ± 5% | | | | C1005C0G2A471J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E471K080AA | C1608C0G2A471K080AA |
| | | | ± 5% | | C1608C0G2E471J080AA | C1608C0G2A471J080AA | |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012C0G2W471K060AA | | |
| | | ± 5% | | C2012C0G2W471J060AA | | | |
| | 3216 | 0.85 ± 0.15 | ± 10% | C3216C0G2J471K085AA | | | |
| | | | ± 5% | C3216C0G2J471J085AA | | | |
| 560 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A561K050BC |
| | | | ± 5% | | | | C1005C0G2A561J050BC |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E561K080AA | C1608C0G2A561K080AA |
| | | | ± 5% | | C1608C0G2E561J080AA | C1608C0G2A561J080AA | |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012C0G2W561K060AA | | |
| | | ± 5% | | C2012C0G2W561J060AA | | | |
| | 3216 | 0.85 ± 0.15 | ± 10% | C3216C0G2J561K085AA | | | |
| | | | ± 5% | C3216C0G2J561J085AA | | | |
| 680 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A681K050BC |
| | | | ± 5% | | | | C1005C0G2A681J050BC |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E681K080AA | C1608C0G2A681K080AA |
| | | | ± 5% | | C1608C0G2E681J080AA | C1608C0G2A681J080AA | |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012C0G2W681K060AA | | |
| | | ± 5% | | C2012C0G2W681J060AA | | | |
| | 3216 | 0.85 ± 0.15 | ± 10% | C3216C0G2J681K085AA | | | |
| | | | ± 5% | C3216C0G2J681J085AA | | | |
| 820 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A821K050BC |
| | | | ± 5% | | | | C1005C0G2A821J050BC |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E821K080AA | C1608C0G2A821K080AA |
| | | | ± 5% | | C1608C0G2E821J080AA | C1608C0G2A821J080AA | |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012C0G2W821K060AA | | |
| | | ± 5% | | C2012C0G2W821J060AA | | | |
| | 3216 | 0.85 ± 0.15 | ± 10% | C3216C0G2J821K085AA | | | |
| | | | ± 5% | C3216C0G2J821J085AA | | | |



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: C0G (-55 to +125°C, 0±30 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|-------------|------------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 1 nF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005C0G2A102K050BC |
| | | | ± 5% | | | | C1005C0G2A102J050BC |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E102K080AA | C1608C0G2A102K080AA |
| | | | ± 5% | | | C1608C0G2E102J080AA | C1608C0G2A102J080AA |
| | | | ± 2% | | | | C1608C0G2A102G080AA |
| | | | ± 1% | | | | C1608C0G2A102F080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012C0G2W102K060AA | | |
| | | | ± 5% | | C2012C0G2W102J060AA | | C2012C0G2A102J060AA |
| | | 0.85 ± 0.15 | ± 10% | | | C2012C0G2E102K085AA | |
| | | | ± 5% | | | C2012C0G2E102J085AA | |
| 3216 | 0.85 ± 0.15 | ± 10% | C3216C0G2J102K085AA | | | | |
| | | | ± 5% | C3216C0G2J102J085AA | | | |
| 1.2 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E122K080AA | C1608C0G2A122K080AA |
| | | | ± 5% | | | C1608C0G2E122J080AA | C1608C0G2A122J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012C0G2W122K060AA | | |
| | | | ± 5% | | C2012C0G2W122J060AA | | C2012C0G2A122J060AA |
| | | 0.85 ± 0.15 | ± 10% | | | C2012C0G2E122K085AA | |
| | | | ± 5% | | | C2012C0G2E122J085AA | |
| 3216 | 0.85 ± 0.15 | ± 10% | C3216C0G2J122K085AA | | | | |
| | | | ± 5% | C3216C0G2J122J085AA | | | |
| 1.5 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E152K080AA | C1608C0G2A152K080AA |
| | | | ± 5% | | | C1608C0G2E152J080AA | C1608C0G2A152J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | | | C2012C0G2A152K060AA |
| | | | ± 5% | | | | C2012C0G2A152J060AA |
| | | 0.85 ± 0.15 | ± 10% | | | C2012C0G2E152K085AA | |
| | | | ± 5% | | | C2012C0G2E152J085AA | |
| 3216 | 1.15 ± 0.15 | ± 10% | C3216C0G2J152K115AA | | | | |
| | | | ± 5% | C3216C0G2J152J115AA | | | |
| 1.8 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608C0G2E182K080AA | C1608C0G2A182K080AA |
| | | | ± 5% | | | C1608C0G2E182J080AA | C1608C0G2A182J080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012C0G2W182K085AA | | C2012C0G2A182K085AA |
| | | | ± 5% | | C2012C0G2W182J085AA | | C2012C0G2A182J085AA |
| | | 1.25 ± 0.20 | ± 10% | | | C2012C0G2E182K125AA | |
| | | | ± 5% | | | C2012C0G2E182J125AA | |
| 3216 | 1.15 ± 0.15 | ± 10% | C3216C0G2J182K115AA | | | | |
| | | | ± 5% | C3216C0G2J182J115AA | | | |
| 2.2 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608C0G2A222K080AA |
| | | | ± 5% | | | | C1608C0G2A222J080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012C0G2W222K085AA | | C2012C0G2A222K085AA |
| | | | ± 5% | | C2012C0G2W222J085AA | | C2012C0G2A222J085AA |
| | | 1.25 ± 0.20 | ± 10% | | | C2012C0G2E222K125AA | |
| | | | ± 5% | | | C2012C0G2E222J125AA | |
| 3216 | 1.15 ± 0.15 | ± 10% | C3216C0G2J222K115AA | | | | |
| | | | ± 5% | C3216C0G2J222J115AA | | | |
| 2.7 nF | 1608 | 0.80 ± 0.15/-0.1 | ± 10% | | | | C1608C0G2A272K080AA |
| | | | ± 5% | | | | C1608C0G2A272J080AA |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012C0G2W272K125AA | C2012C0G2E272K125AA | C2012C0G2A272K125AA |
| | | | ± 5% | | C2012C0G2W272J125AA | C2012C0G2E272J125AA | C2012C0G2A272J125AA |
| | | 1.60 ± 0.20 | ± 10% | | C3216C0G2J272K160AA | | |
| | | | ± 5% | | C3216C0G2J272J160AA | | |
| 3216 | 1.60 ± 0.20 | ± 10% | | | | C1608C0G2A332K080AA | |
| | | | ± 5% | | | C1608C0G2A332J080AA | |
| 3.3 nF | 1608 | 0.80 ± 0.15/-0.1 | ± 10% | | | | C1608C0G2A332K080AA |
| | | | ± 5% | | | | C1608C0G2A332J080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | | C2012C0G2E332K085AA | |
| | | | ± 5% | | | C2012C0G2E332J085AA | |
| | | 1.25 ± 0.20 | ± 10% | | | C2012C0G2W332K125AA | C2012C0G2A332K125AA |
| | | | ± 5% | | | C2012C0G2W332J125AA | C2012C0G2A332J125AA |
| 3216 | 0.85 ± 0.15 | ± 10% | | | C3216C0G2E332K085AA | | |
| | | ± 5% | | | C3216C0G2E332J085AA | | |
| 3216 | 1.60 ± 0.20 | ± 10% | | C3216C0G2J332K160AA | | | |
| | | ± 5% | | C3216C0G2J332J160AA | | | |



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: C0G (-55 to +125°C, 0±30 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 3.9 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608C0G2A392K080AC |
| | | | ± 5% | | | | C1608C0G2A392J080AC |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012C0G2W392K125AA | C2012C0G2E392K125AA | C2012C0G2A392K125AA |
| | | | ± 5% | | C2012C0G2W392J125AA | C2012C0G2E392J125AA | C2012C0G2A392J125AA |
| | 3216 | 0.60 ± 0.15 | ± 10% | | | | C3216C0G2A392K060AA |
| | | | ± 5% | | | | C3216C0G2A392J060AA |
| | 3216 | 0.85 ± 0.15 | ± 10% | C3216C0G2J392K085AA | | | |
| | | | ± 5% | C3216C0G2J392J085AA | | | |
| | 3216 | 1.15 ± 0.15 | ± 10% | | | C3216C0G2E392K115AA | |
| | | | ± 5% | | | C3216C0G2E392J115AA | |
| 3225 | 1.25 ± 0.20 | ± 10% | C3225C0G2J392K125AA | | | | |
| | | ± 5% | C3225C0G2J392J125AA | | | | |
| 4.7 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608C0G2A472K080AC |
| | | | ± 5% | | | | C1608C0G2A472J080AC |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012C0G2W472K125AA | C2012C0G2E472K125AA | C2012C0G2A472K125AA |
| | | | ± 5% | | C2012C0G2W472J125AA | C2012C0G2E472J125AA | C2012C0G2A472J125AA |
| | 3216 | 0.85 ± 0.15 | ± 10% | C3216C0G2J472K085AA | | | C3216C0G2A472K085AA |
| | | | ± 5% | C3216C0G2J472J085AA | | | C3216C0G2A472J085AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | | C3216C0G2E472K115AA | |
| | | | ± 5% | | | C3216C0G2E472J115AA | |
| | 3225 | 1.60 ± 0.20 | ± 10% | C3225C0G2J472K160AA | | | |
| | | | ± 5% | C3225C0G2J472J160AA | | | |
| 5.6 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608C0G2A562K080AC |
| | | | ± 5% | | | | C1608C0G2A562J080AC |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012C0G2W562K125AA | C2012C0G2E562K125AA | C2012C0G2A562K125AA |
| | | | ± 5% | | C2012C0G2W562J125AA | C2012C0G2E562J125AA | C2012C0G2A562J125AA |
| | 3216 | 0.85 ± 0.15 | ± 10% | | | | C3216C0G2A562K085AA |
| | | | ± 5% | | | | C3216C0G2A562J085AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216C0G2J562K115AA | | C3216C0G2E562K115AA | |
| | | | ± 5% | C3216C0G2J562J115AA | | C3216C0G2E562J115AA | |
| | 3225 | 1.60 ± 0.20 | ± 10% | C3225C0G2J562K160AA | | | |
| | | | ± 5% | C3225C0G2J562J160AA | | | |
| 6.8 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608C0G2A682K080AC |
| | | | ± 5% | | | | C1608C0G2A682J080AC |
| | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012C0G2E682K125AA | C2012C0G2A682K125AA |
| | | | ± 5% | | | C2012C0G2E682J125AA | C2012C0G2A682J125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216C0G2J682K115AA | C3216C0G2W682K115AA | | C3216C0G2A682K115AA |
| | | | ± 5% | C3216C0G2J682J115AA | C3216C0G2W682J115AA | | C3216C0G2A682J115AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216C0G2E682K160AA | |
| | | | ± 5% | | | C3216C0G2E682J160AA | |
| | 3225 | 2.00 ± 0.20 | ± 10% | C3225C0G2J682K200AA | | | |
| | | | ± 5% | C3225C0G2J682J200AA | | | |
| 8.2 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608C0G2A822K080AC |
| | | | ± 5% | | | | C1608C0G2A822J080AC |
| | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012C0G2E822K125AA | C2012C0G2A822K125AA |
| | | | ± 5% | | | C2012C0G2E822J125AA | C2012C0G2A822J125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | C3216C0G2W822K115AA | | C3216C0G2A822K115AA |
| | | | ± 5% | | C3216C0G2W822J115AA | | C3216C0G2A822J115AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | C3216C0G2J822K160AA | | C3216C0G2E822K160AA | |
| | | | ± 5% | C3216C0G2J822J160AA | | C3216C0G2E822J160AA | |
| | 3225 | 1.25 ± 0.20 | ± 10% | C3225C0G2J822K125AA | | | |
| | | | ± 5% | C3225C0G2J822J125AA | | | |
| 4532 | 1.60 ± 0.20 | ± 10% | C4532C0G2J822K160KA | | | | |
| | | ± 5% | C4532C0G2J822J160KA | | | | |
| 10 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608C0G2A103K080AC |
| | | | ± 5% | | | | C1608C0G2A103J080AC |
| | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012C0G2E103K125AA | C2012C0G2A103K125AA |
| | | | ± 5% | | | C2012C0G2E103J125AA | C2012C0G2A103J125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | | C3216C0G2E103K115AA | C3216C0G2A103K115AA |
| | | | ± 5% | | | C3216C0G2E103J115AA | C3216C0G2A103J115AA |
| 3216 | 1.60 ± 0.20 | ± 10% | C3216C0G2J103K160AA | C3216C0G2W103K160AA | | | |
| | | ± 5% | C3216C0G2J103J160AA | C3216C0G2W103J160AA | | | |



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: C0G (-55 to +125°C, 0±30 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|----------------|----------------|---------------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 10 nF | 3225 | 1.25 ± 0.20 | ± 10% | C3225C0G2J103K125AA | | | |
| | | | ± 5% | C3225C0G2J103J125AA | | | |
| | 1.60 ± 0.20 | ± 10% | C3225C0G2E103K160AA | | | | |
| | | ± 5% | C3225C0G2E103J160AA | | | | |
| | 4532 | 1.60 ± 0.20 | ± 10% | C4532C0G2J103K160KA | | | |
| | | | ± 5% | C4532C0G2J103J160KA | | | |
| 15 nF | 2012 | 0.85 ± 0.15 | ± 10% | C2012C0G2A153K085AC | | | |
| | | | ± 5% | C2012C0G2A153J085AC | | | |
| | 1.15 ± 0.15 | ± 10% | C3216C0G2A153K115AA | | | | |
| | | ± 5% | C3216C0G2A153J115AA | | | | |
| | 3216 | 1.60 ± 0.20 | ± 10% | C3216C0G2E153K160AA | | | |
| | | | ± 5% | C3216C0G2E153J160AA | | | |
| 1.60 +0.3/-0.1 | ± 10% | C3216C0G2W153K160AA | | | | | |
| | ± 5% | C3216C0G2W153J160AA | | | | | |
| 22 nF | 3225 | 1.25 ± 0.20 | ± 10% | C3225C0G2A153K125AA | | | |
| | | | ± 5% | C3225C0G2A153J125AA | | | |
| | 1.60 ± 0.20 | ± 10% | C3225C0G2J153K160AA | | | | |
| | | ± 5% | C3225C0G2J153J160AA | | | | |
| | 2.00 ± 0.20 | ± 10% | C3225C0G2E153K200AA | | | | |
| | | ± 5% | C3225C0G2E153J200AA | | | | |
| 4532 | 2.50 ± 0.30 | ± 10% | C4532C0G2J153K250KA | | | | |
| | | ± 5% | C4532C0G2J153J250KA | | | | |
| 33 nF | 2012 | 1.25 ± 0.20 | ± 10% | C2012C0G2A223K125AC | | | |
| | | | ± 5% | C2012C0G2A223J125AC | | | |
| | 3216 | 1.60 ± 0.20 | ± 10% | C3216C0G2A223K160AA | | | |
| | | | ± 5% | C3216C0G2A223J160AA | | | |
| | 1.60 +0.3/-0.1 | ± 10% | C3216C0G2E223K160AA | | | | |
| | | ± 5% | C3216C0G2E223J160AA | | | | |
| 3225 | 1.60 ± 0.20 | ± 10% | C3225C0G2E223K160AA | | | | |
| | | ± 5% | C3225C0G2E223J160AA | | | | |
| 2.30 ± 0.20 | ± 10% | C3225C0G2J223K230AA | | | | | |
| | ± 5% | C3225C0G2J223J230AA | | | | | |
| 4532 | 1.60 ± 0.20 | ± 10% | C4532C0G2E223K160KA | | | | |
| | | ± 5% | C4532C0G2E223J160KA | | | | |
| 3.20 ± 0.30 | ± 10% | C4532C0G2J223K320KA | | | | | |
| | ± 5% | C4532C0G2J223J320KA | | | | | |
| 47 nF | 2012 | 1.25 ± 0.20 | ± 10% | C2012C0G2A333K125AC | | | |
| | | | ± 5% | C2012C0G2A333J125AC | | | |
| | 3216 | 1.60 +0.3/-0.1 | ± 10% | C3216C0G2A333K160AA | | | |
| | | | ± 5% | C3216C0G2A333J160AA | | | |
| | 2.00 ± 0.20 | ± 10% | C3225C0G2A333K200AA | | | | |
| | | ± 5% | C3225C0G2A333J200AA | | | | |
| 3225 | 2.30 ± 0.20 | ± 10% | C3225C0G2E333K230AA | | | | |
| | | ± 5% | C3225C0G2E333J230AA | | | | |
| 2.50 ± 0.30 | ± 10% | C3225C0G2J333K250AA | | | | | |
| | ± 5% | C3225C0G2J333J250AA | | | | | |
| 4532 | 2.00 ± 0.20 | ± 10% | C4532C0G2E333K200KA | | | | |
| | | ± 5% | C4532C0G2E333J200KA | | | | |
| 33 nF | 3216 | 1.15 ± 0.15 | ± 10% | C3216C0G2A473K115AC | | | |
| | | | ± 5% | C3216C0G2A473J115AC | | | |
| | 3225 | 2.30 ± 0.20 | ± 10% | C3225C0G2A473K230AA | | | |
| | | | ± 5% | C3225C0G2A473J230AA | | | |
| | 2.50 ± 0.30 | ± 10% | C3225C0G2E473K250AA | | | | |
| | | ± 5% | C3225C0G2E473J250AA | | | | |
| 2.00 ± 0.20 | ± 10% | C4532C0G2A473K200KA | | | | | |
| | ± 5% | C4532C0G2A473J200KA | | | | | |
| 4532 | 2.30 ± 0.20 | ± 10% | C4532C0G2W473K230KA | | | | |
| | | ± 5% | C4532C0G2W473J230KA | | | | |
| 3.20 ± 0.30 | ± 10% | C4532C0G2J473K320KA | | | | | |
| | ± 5% | C4532C0G2J473J320KA | | | | | |



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: C0G (-55 to +125°C, 0±30 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 68 nF | 3216 | 1.60 ± 0.20 | ± 10% | | | | C3216C0G2A683K160AC |
| | | | ± 5% | | | | C3216C0G2A683J160AC |
| | 3225 | 2.30 ± 0.20 | ± 10% | | | | C3225C0G2A683K230AA |
| | | | ± 5% | | | | C3225C0G2A683J230AA |
| | 4532 | 2.30 ± 0.20 | ± 10% | | | C4532C0G2E683K230KN | |
| | | | ± 5% | | | C4532C0G2E683J230KN | |
| | | 2.50 ± 0.30 | ± 10% | | | | C4532C0G2A683K250KA |
| | | | ± 5% | | | | C4532C0G2A683J250KA |
| | 3.20 ± 0.30 | ± 10% | | C4532C0G2W683K320KA | | | |
| | | ± 5% | | C4532C0G2W683J320KA | | | |
| 5750 | 2.30 ± 0.20 | ± 10% | C5750C0G2J683K230KC | | | | |
| | | ± 5% | C5750C0G2J683J230KC | | | | |
| 100 nF | 3216 | 1.60 ± 0.20 | ± 10% | | | | C3216C0G2A104K160AC |
| | | | ± 5% | | | | C3216C0G2A104J160AC |
| | 4532 | 3.20 ± 0.30 | ± 10% | | | C4532C0G2E104K320KN | C4532C0G2A104K320KA |
| | | | ± 5% | | | C4532C0G2E104J320KN | C4532C0G2A104J320KA |
| | 5750 | 2.80 ± 0.30 | ± 10% | C5750C0G2J104K280KC | C5750C0G2W104J280KA | | |
| ± 5% | | | C5750C0G2J104J280KC | C5750C0G2W104K280KA | | | |
| 150 nF | 5750 | 2.30 ± 0.20 | ± 10% | | | C5750C0G2E154K230KN | C5750C0G2A154K230KA |
| | | | ± 5% | | | C5750C0G2E154J230KN | C5750C0G2A154J230KA |



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: CH (-25 to +85°C, 0±60 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 1 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608CH2A010C080AA |
| 1.5 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608CH2A1R5C080AA |
| 2 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608CH2A020C080AA |
| 2.2 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608CH2A2R2C080AA |
| 3 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608CH2A030C080AA |
| 3.3 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608CH2A3R3C080AA |
| 4 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608CH2A040C080AA |
| 4.7 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608CH2A4R7C080AA |
| 5 pF | 1608 | 0.80 ± 0.10 | ± 0.25pF | | | | C1608CH2A050C080AA |
| 6 pF | 1608 | 0.80 ± 0.10 | ± 0.50pF | | | | C1608CH2A060D080AA |
| 6.8 pF | 1608 | 0.80 ± 0.10 | ± 0.50pF | | | | C1608CH2A6R8D080AA |
| 7 pF | 1608 | 0.80 ± 0.10 | ± 0.50pF | | | | C1608CH2A070D080AA |
| 8 pF | 1608 | 0.80 ± 0.10 | ± 0.50pF | | | | C1608CH2A080D080AA |
| 9 pF | 1608 | 0.80 ± 0.10 | ± 0.50pF | | | | C1608CH2A090D080AA |
| 10 pF | 1608 | 0.80 ± 0.10 | ± 0.50pF | | | | C1608CH2A100D080AA |
| 12 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608CH2A120J080AA |
| 15 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608CH2A150J080AA |
| 18 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608CH2A180J080AA |
| 22 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608CH2A220J080AA |
| 27 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608CH2A270J080AA |
| 33 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608CH2A330J080AA |
| 39 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608CH2A390J080AA |
| 47 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608CH2A470J080AA |
| 56 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608CH2A560J080AA |
| 68 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608CH2A680J080AA |
| 82 pF | 1608 | 0.80 ± 0.10 | ± 5% | | | | C1608CH2A820J080AA |
| 100 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A101K050BA |
| | | | ± 5% | | | | C1005CH2A101J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E101K080AA | C1608CH2A101K080AA |
| | | | ± 5% | | C1608CH2E101J080AA | | C1608CH2A101J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W101K060AA | | |
| | | | ± 5% | | C2012CH2W101J060AA | | |
| 3216 | 0.60 ± 0.15 | ± 10% | C3216CH2J101K060AA | | | | |
| | | | ± 5% | C3216CH2J101J060AA | | | |
| 120 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A121K050BA |
| | | | ± 5% | | | | C1005CH2A121J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E121K080AA | C1608CH2A121K080AA |
| | | | ± 5% | | C1608CH2E121J080AA | | C1608CH2A121J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W121K060AA | | |
| | | | ± 5% | | C2012CH2W121J060AA | | |
| 3216 | 0.60 ± 0.15 | ± 10% | C3216CH2J121K060AA | | | | |
| | | | ± 5% | C3216CH2J121J060AA | | | |
| 150 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A151K050BA |
| | | | ± 5% | | | | C1005CH2A151J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E151K080AA | C1608CH2A151K080AA |
| | | | ± 5% | | C1608CH2E151J080AA | | C1608CH2A151J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W151K060AA | | |
| | | | ± 5% | | C2012CH2W151J060AA | | |
| 3216 | 0.60 ± 0.15 | ± 10% | C3216CH2J151K060AA | | | | |
| | | | ± 5% | C3216CH2J151J060AA | | | |
| 180 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A181K050BA |
| | | | ± 5% | | | | C1005CH2A181J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E181K080AA | C1608CH2A181K080AA |
| | | | ± 5% | | C1608CH2E181J080AA | | C1608CH2A181J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W181K060AA | | |
| | | | ± 5% | | C2012CH2W181J060AA | | |
| 3216 | 0.60 ± 0.15 | ± 10% | C3216CH2J181K060AA | | | | |
| | | | ± 5% | C3216CH2J181J060AA | | | |
| 220 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A221K050BA |
| | | | ± 5% | | | | C1005CH2A221J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E221K080AA | C1608CH2A221K080AA |
| | | | ± 5% | | C1608CH2E221J080AA | | C1608CH2A221J080AA |



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: CH (-25 to +85°C, 0±60 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 220 pF | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W221K060AA | | |
| | | | ± 5% | | C2012CH2W221J060AA | | |
| | 3216 | 0.60 ± 0.15 | ± 10% | C3216CH2J221K060AA | | | |
| | | | ± 5% | C3216CH2J221J060AA | | | |
| 270 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A271K050BA |
| | | | ± 5% | | | | C1005CH2A271J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E271K080AA | C1608CH2A271K080AA |
| | | | ± 5% | | | C1608CH2E271J080AA | C1608CH2A271J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W271K060AA | | |
| | | | ± 5% | | C2012CH2W271J060AA | | |
| 3216 | 0.60 ± 0.15 | ± 10% | C3216CH2J271K060AA | | | | |
| | | ± 5% | C3216CH2J271J060AA | | | | |
| 330 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A331K050BA |
| | | | ± 5% | | | | C1005CH2A331J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E331K080AA | C1608CH2A331K080AA |
| | | | ± 5% | | | C1608CH2E331J080AA | C1608CH2A331J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W331K060AA | | |
| | | | ± 5% | | C2012CH2W331J060AA | | |
| 3216 | 0.60 ± 0.15 | ± 10% | C3216CH2J331K060AA | | | | |
| | | ± 5% | C3216CH2J331J060AA | | | | |
| 390 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A391K050BA |
| | | | ± 5% | | | | C1005CH2A391J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E391K080AA | C1608CH2A391K080AA |
| | | | ± 5% | | | C1608CH2E391J080AA | C1608CH2A391J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W391K060AA | | |
| | | | ± 5% | | C2012CH2W391J060AA | | |
| 3216 | 0.60 ± 0.15 | ± 10% | C3216CH2J391K060AA | | | | |
| | | ± 5% | C3216CH2J391J060AA | | | | |
| 470 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A471K050BA |
| | | | ± 5% | | | | C1005CH2A471J050BA |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E471K080AA | C1608CH2A471K080AA |
| | | | ± 5% | | | C1608CH2E471J080AA | C1608CH2A471J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W471K060AA | | |
| | | | ± 5% | | C2012CH2W471J060AA | | |
| 3216 | 0.85 ± 0.15 | ± 10% | C3216CH2J471K085AA | | | | |
| | | ± 5% | C3216CH2J471J085AA | | | | |
| 560 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A561K050BC |
| | | | ± 5% | | | | C1005CH2A561J050BC |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E561K080AA | C1608CH2A561K080AA |
| | | | ± 5% | | | C1608CH2E561J080AA | C1608CH2A561J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W561K060AA | | |
| | | | ± 5% | | C2012CH2W561J060AA | | |
| 3216 | 0.85 ± 0.15 | ± 10% | C3216CH2J561K085AA | | | | |
| | | ± 5% | C3216CH2J561J085AA | | | | |
| 680 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A681K050BC |
| | | | ± 5% | | | | C1005CH2A681J050BC |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E681K080AA | C1608CH2A681K080AA |
| | | | ± 5% | | | C1608CH2E681J080AA | C1608CH2A681J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W681K060AA | | |
| | | | ± 5% | | C2012CH2W681J060AA | | |
| 3216 | 0.85 ± 0.15 | ± 10% | C3216CH2J681K085AA | | | | |
| | | ± 5% | C3216CH2J681J085AA | | | | |
| 820 pF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A821K050BC |
| | | | ± 5% | | | | C1005CH2A821J050BC |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E821K080AA | C1608CH2A821K080AA |
| | | | ± 5% | | | C1608CH2E821J080AA | C1608CH2A821J080AA |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W821K060AA | C2012CH2E821K060AA | |
| | | | ± 5% | | C2012CH2W821J060AA | C2012CH2E821J060AA | |
| 3216 | 0.85 ± 0.15 | ± 10% | C3216CH2J821K085AA | | | | |
| | | ± 5% | C3216CH2J821J085AA | | | | |



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: CH (-25 to +85°C, 0±60 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | | |
|-------------|-------------|------------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V | |
| 1 nF | 1005 | 0.50 ± 0.05 | ± 10% | | | | C1005CH2A102K050BC | |
| | | | ± 5% | | | | C1005CH2A102J050BC | |
| | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E102K080AA | C1608CH2A102K080AA | |
| | | | ± 5% | | C1608CH2E102J080AA | C1608CH2A102J080AA | | |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W102K060AA | | | |
| | | | ± 5% | | C2012CH2W102J060AA | | C2012CH2A102J060AA | |
| | 2012 | 0.85 ± 0.15 | ± 10% | | | C2012CH2E102K085AA | | |
| | | | ± 5% | | | C2012CH2E102J085AA | | |
| | 3216 | 0.85 ± 0.15 | ± 10% | C3216CH2J102K085AA | | | | |
| | | | ± 5% | C3216CH2J102J085AA | | | | |
| 1.2 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E122K080AA | C1608CH2A122K080AA | |
| | | | ± 5% | | | C1608CH2E122J080AA | C1608CH2A122J080AA | |
| | 2012 | 0.60 ± 0.15 | ± 10% | | C2012CH2W122K060AA | | | |
| | | | ± 5% | | C2012CH2W122J060AA | | C2012CH2A122J060AA | |
| | 2012 | 0.85 ± 0.15 | ± 10% | | | C2012CH2E122K085AA | | |
| | | | ± 5% | | | C2012CH2E122J085AA | | |
| | 3216 | 0.85 ± 0.15 | ± 10% | C3216CH2J122K085AA | | | | |
| | | | ± 5% | C3216CH2J122J085AA | | | | |
| | 1.5 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E152K080AA | C1608CH2A152K080AA |
| | | | | ± 5% | | | C1608CH2E152J080AA | C1608CH2A152J080AA |
| 2012 | | 0.60 ± 0.15 | ± 10% | | | | C2012CH2A152K060AA | |
| | | | ± 5% | | | | C2012CH2A152J060AA | |
| 2012 | | 0.85 ± 0.15 | ± 10% | | C2012CH2W152K085AA | C2012CH2E152K085AA | | |
| | | | ± 5% | | C2012CH2W152J085AA | C2012CH2E152J085AA | | |
| 3216 | | 1.15 ± 0.15 | ± 10% | C3216CH2J152K115AA | | | | |
| | | | ± 5% | C3216CH2J152J115AA | | | | |
| 1.8 nF | | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608CH2E182K080AA | C1608CH2A182K080AA |
| | | | | ± 5% | | | C1608CH2E182J080AA | C1608CH2A182J080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012CH2W182K085AA | | C2012CH2A182K085AA | |
| | | | ± 5% | | C2012CH2W182J085AA | | C2012CH2A182J085AA | |
| | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012CH2E182K125AA | | |
| | | | ± 5% | | | C2012CH2E182J125AA | | |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216CH2J182K115AA | | | | |
| | | | ± 5% | C3216CH2J182J115AA | | | | |
| | 2.2 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608CH2A222K080AA |
| | | | | ± 5% | | | | C1608CH2A222J080AA |
| 2012 | | 0.80 ± 0.15/-0.1 | ± 10% | | | C1608CH2E222K080AA | | |
| | | | ± 5% | | | C1608CH2E222J080AA | | |
| 2012 | | 0.85 ± 0.15 | ± 10% | | C2012CH2W222K085AA | | C2012CH2A222K085AA | |
| | | | ± 5% | | C2012CH2W222J085AA | | C2012CH2A222J085AA | |
| 2012 | | 1.25 ± 0.20 | ± 10% | | | C2012CH2E222K125AA | | |
| | | | ± 5% | | | C2012CH2E222J125AA | | |
| 3216 | | 1.15 ± 0.15 | ± 10% | C3216CH2J222K115AA | | | | |
| | | | ± 5% | C3216CH2J222J115AA | | | | |
| 2.7 nF | 1608 | 0.80 ± 0.15/-0.1 | ± 10% | | | | C1608CH2A272K080AA | |
| | | | ± 5% | | | | C1608CH2A272J080AA | |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012CH2W272K125AA | C2012CH2E272K125AA | C2012CH2A272K125AA | |
| | | | ± 5% | | C2012CH2W272J125AA | C2012CH2E272J125AA | C2012CH2A272J125AA | |
| | 3216 | 1.60 ± 0.20 | ± 10% | C3216CH2J272K160AA | | | | |
| | | | ± 5% | C3216CH2J272J160AA | | | | |
| | 1608 | 0.80 ± 0.15/-0.1 | ± 10% | | | | C1608CH2A332K080AA | |
| | | | ± 5% | | | | C1608CH2A332J080AA | |
| | 2012 | 0.85 ± 0.15 | ± 10% | | | C2012CH2E332K085AA | | |
| | | | ± 5% | | | C2012CH2E332J085AA | | |
| 2012 | 1.25 ± 0.20 | ± 10% | | C2012CH2W332K125AA | | C2012CH2A332K125AA | | |
| | | ± 5% | | C2012CH2W332J125AA | | C2012CH2A332J125AA | | |
| 3216 | 0.85 ± 0.15 | ± 10% | | | C3216CH2E332K085AA | | | |
| | | ± 5% | | | C3216CH2E332J085AA | | | |
| 3216 | 1.60 ± 0.20 | ± 10% | C3216CH2J332K160AA | | | | | |
| | | ± 5% | C3216CH2J332J160AA | | | | | |



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: CH (-25 to +85°C, 0±60 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 3.9 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608CH2A392K080AC |
| | | | ± 5% | | | | C1608CH2A392J080AC |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012CH2W392K125AA | C2012CH2E392K125AA | C2012CH2A392K125AA |
| | | | ± 5% | | C2012CH2W392J125AA | C2012CH2E392J125AA | C2012CH2A392J125AA |
| | | 0.60 ± 0.15 | ± 10% | | | | C3216CH2A392K060AA |
| | | | ± 5% | | | | C3216CH2A392J060AA |
| | 3216 | 0.85 ± 0.15 | ± 10% | C3216CH2J392K085AA | | | |
| | | | ± 5% | C3216CH2J392J085AA | | | |
| | | 1.15 ± 0.15 | ± 10% | | | C3216CH2E392K115AA | |
| | | | ± 5% | | | C3216CH2E392J115AA | |
| 3225 | 1.25 ± 0.20 | ± 10% | C3225CH2J392K125AA | | | | |
| | | ± 5% | C3225CH2J392J125AA | | | | |
| 4.7 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608CH2A472K080AC |
| | | | ± 5% | | | | C1608CH2A472J080AC |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012CH2W472K125AA | C2012CH2E472K125AA | C2012CH2A472K125AA |
| | | | ± 5% | | C2012CH2W472J125AA | C2012CH2E472J125AA | C2012CH2A472J125AA |
| | 3216 | 0.85 ± 0.15 | ± 10% | C3216CH2J472K085AA | | | C3216CH2A472K085AA |
| | | | ± 5% | C3216CH2J472J085AA | | | C3216CH2A472J085AA |
| | | 1.15 ± 0.15 | ± 10% | | | C3216CH2E472K115AA | |
| | | | ± 5% | | | C3216CH2E472J115AA | |
| | 3225 | 1.60 ± 0.20 | ± 10% | C3225CH2J472K160AA | | | |
| | | | ± 5% | C3225CH2J472J160AA | | | |
| 5.6 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608CH2A562K080AC |
| | | | ± 5% | | | | C1608CH2A562J080AC |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012CH2W562K125AA | C2012CH2E562K125AA | C2012CH2A562K125AA |
| | | | ± 5% | | C2012CH2W562J125AA | C2012CH2E562J125AA | C2012CH2A562J125AA |
| | 3216 | 0.85 ± 0.15 | ± 10% | C3216CH2J562K115AA | | C3216CH2E562K115AA | C3216CH2A562K085AA |
| | | | ± 5% | C3216CH2J562J115AA | | C3216CH2E562J115AA | C3216CH2A562J085AA |
| | | 1.15 ± 0.15 | ± 10% | | | C3216CH2E562K115AA | |
| | | | ± 5% | | | C3216CH2E562J115AA | |
| | 3225 | 1.60 ± 0.20 | ± 10% | C3225CH2J562K160AA | | | |
| | | | ± 5% | C3225CH2J562J160AA | | | |
| 6.8 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608CH2A682K080AC |
| | | | ± 5% | | | | C1608CH2A682J080AC |
| | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012CH2E682K125AA | C2012CH2A682K125AA |
| | | | ± 5% | | | C2012CH2E682J125AA | C2012CH2A682J125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216CH2J682K115AA | C3216CH2W682K115AA | | C3216CH2A682K115AA |
| | | | ± 5% | C3216CH2J682J115AA | C3216CH2W682J115AA | | C3216CH2A682J115AA |
| | | 1.60 ± 0.20 | ± 10% | | | C3216CH2E682K160AA | |
| | | | ± 5% | | | C3216CH2E682J160AA | |
| | 3225 | 2.00 ± 0.20 | ± 10% | C3225CH2J682K200AA | | | |
| | | | ± 5% | C3225CH2J682J200AA | | | |
| 8.2 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608CH2A822K080AC |
| | | | ± 5% | | | | C1608CH2A822J080AC |
| | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012CH2E822K125AA | C2012CH2A822K125AA |
| | | | ± 5% | | | C2012CH2E822J125AA | C2012CH2A822J125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | C3216CH2W822K115AA | | C3216CH2A822K115AA |
| | | | ± 5% | | C3216CH2W822J115AA | | C3216CH2A822J115AA |
| | | 1.60 ± 0.20 | ± 10% | C3216CH2J822K160AA | | C3216CH2E822K160AA | |
| | | | ± 5% | C3216CH2J822J160AA | | C3216CH2E822J160AA | |
| | 3225 | 1.25 ± 0.20 | ± 10% | C3225CH2J822K125AA | | | |
| | | | ± 5% | C3225CH2J822J125AA | | | |
| 4532 | 1.60 ± 0.20 | ± 10% | C4532CH2J822K160KA | | | | |
| | | ± 5% | C4532CH2J822J160KA | | | | |
| 10 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | | C1608CH2A103K080AC |
| | | | ± 5% | | | | C1608CH2A103J080AC |
| | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012CH2E103K125AA | C2012CH2A103K125AA |
| | | | ± 5% | | | C2012CH2E103J125AA | C2012CH2A103J125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | | C3216CH2E103K115AA | C3216CH2A103K115AA |
| | | | ± 5% | | | C3216CH2E103J115AA | C3216CH2A103J115AA |
| | 1.60 ± 0.20 | ± 10% | C3216CH2J103K160AA | C3216CH2W103K160AA | | | |
| | | ± 5% | C3216CH2J103J160AA | C3216CH2W103J160AA | | | |



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: CH (-25 to +85°C, 0±60 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|----------------|-------------|--------------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 10 nF | 3225 | 1.25 ± 0.20 | ± 10% | C3225CH2J103K125AA | | | |
| | | | ± 5% | C3225CH2J103J125AA | | | |
| | 1.60 ± 0.20 | ± 10% | C3225CH2E103K160AA | | | | |
| | | ± 5% | C3225CH2E103J160AA | | | | |
| | 4532 | 1.60 ± 0.20 | ± 10% | C4532CH2J103K160KA | | | |
| | | | ± 5% | C4532CH2J103J160KA | | | |
| 15 nF | 2012 | 0.85 ± 0.15 | ± 10% | C2012CH2A153K085AC | | | |
| | | | ± 5% | C2012CH2A153J085AC | | | |
| | 1.15 ± 0.15 | ± 10% | C3216CH2A153K115AA | | | | |
| | | ± 5% | C3216CH2A153J115AA | | | | |
| | 3216 | 1.60 ± 0.20 | ± 10% | C3216CH2E153K160AA | | | |
| | | | ± 5% | C3216CH2E153J160AA | | | |
| 1.60 +0.3/-0.1 | ± 10% | C3216CH2W153K160AA | | | | | |
| | ± 5% | C3216CH2W153J160AA | | | | | |
| 22 nF | 3225 | 1.25 ± 0.20 | ± 10% | C3225CH2A153K125AA | | | |
| | | | ± 5% | C3225CH2A153J125AA | | | |
| | 1.60 ± 0.20 | ± 10% | C3225CH2J153K160AA | | | | |
| | | ± 5% | C3225CH2J153J160AA | | | | |
| | 2.00 ± 0.20 | ± 10% | C3225CH2E153K200AA | | | | |
| | | ± 5% | C3225CH2E153J200AA | | | | |
| 33 nF | 4532 | 2.50 ± 0.30 | ± 10% | C4532CH2J153K250KA | | | |
| | | | ± 5% | C4532CH2J153J250KA | | | |
| | 2012 | 1.25 ± 0.20 | ± 10% | C2012CH2A223K125AC | | | |
| | | | ± 5% | C2012CH2A223J125AC | | | |
| | 3216 | 1.60 ± 0.20 | ± 10% | C3216CH2A223K160AA | | | |
| | | | ± 5% | C3216CH2A223J160AA | | | |
| 1.60 +0.3/-0.1 | ± 10% | C3216CH2E223K160AA | | | | | |
| | ± 5% | C3216CH2E223J160AA | | | | | |
| 47 nF | 3225 | 1.60 ± 0.20 | ± 10% | C3225CH2E223K160AA | | | |
| | | | ± 5% | C3225CH2E223J160AA | | | |
| | 2.30 ± 0.20 | ± 10% | C3225CH2J223K230AA | | | | |
| | | ± 5% | C3225CH2J223J230AA | | | | |
| | 4532 | 1.60 ± 0.20 | ± 10% | C4532CH2E223K160KA | | | |
| | | | ± 5% | C4532CH2E223J160KA | | | |
| 3.20 ± 0.30 | ± 10% | C4532CH2J223K320KA | | | | | |
| | ± 5% | C4532CH2J223J320KA | | | | | |
| 100 nF | 2012 | 1.25 ± 0.20 | ± 10% | C2012CH2A333K125AC | | | |
| | | | ± 5% | C2012CH2A333J125AC | | | |
| | 3216 | 1.60 +0.3/-0.1 | ± 10% | C3216CH2A333K160AA | | | |
| | | | ± 5% | C3216CH2A333J160AA | | | |
| | 2.00 ± 0.20 | ± 10% | C3225CH2A333K200AA | | | | |
| | | ± 5% | C3225CH2A333J200AA | | | | |
| 3225 | 2.30 ± 0.20 | ± 10% | C3225CH2E333K230AA | | | | |
| | | ± 5% | C3225CH2E333J230AA | | | | |
| 220 nF | 4532 | 2.00 ± 0.20 | ± 10% | C4532CH2E333K200KA | | | |
| | | | ± 5% | C4532CH2E333J200KA | | | |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216CH2A473K115AC | | | |
| | | | ± 5% | C3216CH2A473J115AC | | | |
| | 2.30 ± 0.20 | ± 10% | C3225CH2A473K230AA | | | | |
| | | ± 5% | C3225CH2A473J230AA | | | | |
| 2.50 ± 0.30 | ± 10% | C3225CH2E473K250AA | | | | | |
| | ± 5% | C3225CH2E473J250AA | | | | | |
| 330 nF | 4532 | 2.00 ± 0.20 | ± 10% | C4532CH2A473K200KA | | | |
| | | | ± 5% | C4532CH2A473J200KA | | | |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216CH2W473K230KA | | | |
| | | | ± 5% | C3216CH2W473J230KA | | | |
| | 2.30 ± 0.20 | ± 10% | C4532CH2W473K230KA | | | | |
| | | ± 5% | C4532CH2W473J230KA | | | | |
| 3.20 ± 0.30 | ± 10% | C4532CH2J473K320KA | | | | | |
| | ± 5% | C4532CH2J473J320KA | | | | | |



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: CH (-25 to +85°C, 0±60 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 68 nF | 3216 | 1.60 ± 0.20 | ± 10% | | | | C3216CH2A683K160AC |
| | | | ± 5% | | | | C3216CH2A683J160AC |
| | 3225 | 2.30 ± 0.20 | ± 10% | | | | C3225CH2A683K230AA |
| | | | ± 5% | | | | C3225CH2A683J230AA |
| | 4532 | 2.30 ± 0.20 | ± 10% | | | C4532CH2E683K230KN | |
| | | | ± 5% | | | C4532CH2E683J230KN | |
| | | 2.50 ± 0.30 | ± 10% | | | | C4532CH2A683K250KA |
| | | | ± 5% | | | | C4532CH2A683J250KA |
| | 3.20 ± 0.30 | ± 10% | | C4532CH2W683K320KA | | | |
| | | ± 5% | | C4532CH2W683J320KA | | | |
| 5750 | 2.30 ± 0.20 | ± 10% | C5750CH2J683K230KC | | | | |
| | | ± 5% | C5750CH2J683J230KC | | | | |
| 100 nF | 3216 | 1.60 ± 0.20 | ± 10% | | | | C3216CH2A104K160AC |
| | | | ± 5% | | | | C3216CH2A104J160AC |
| | 4532 | 3.20 ± 0.30 | ± 10% | | | C4532CH2E104K320KN | C4532CH2A104K320KA |
| | | | ± 5% | | | C4532CH2E104J320KN | C4532CH2A104J320KA |
| | 5750 | 2.80 ± 0.30 | ± 10% | C5750CH2J104K280KC | C5750CH2W104J280KA | | |
| | | | ± 5% | C5750CH2J104J280KC | C5750CH2W104K280KA | | |
| 150 nF | 5750 | 2.30 ± 0.20 | ± 10% | | | C5750CH2E154K230KN | C5750CH2A154K230KA |
| | | | ± 5% | | | C5750CH2E154J230KN | C5750CH2A154J230KA |

Class 2 (Temperature Stable)

Temperature Characteristics: JB (-25 to +85°C, ±10%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | |
|-------------|------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 1 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608JB2A102K080AA |
| | | | ± 20% | | | C1608JB2A102M080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012JB2E102K085AA | C2012JB2A102K085AA |
| | | | ± 20% | | C2012JB2E102M085AA | C2012JB2A102M085AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216JB2J102K115AA | | |
| | | | ± 20% | C3216JB2J102M115AA | | |
| 1.5 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608JB2A152K080AA |
| | | | ± 20% | | | C1608JB2A152M080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012JB2E152K085AA | C2012JB2A152K085AA |
| | | | ± 20% | | C2012JB2E152M085AA | C2012JB2A152M085AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216JB2J152K115AA | | |
| | | | ± 20% | C3216JB2J152M115AA | | |
| 2.2 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608JB2A222K080AA |
| | | | ± 20% | | | C1608JB2A222M080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012JB2E222K085AA | C2012JB2A222K085AA |
| | | | ± 20% | | C2012JB2E222M085AA | C2012JB2A222M085AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216JB2J222K115AA | | |
| | | | ± 20% | C3216JB2J222M115AA | | |
| 3.3 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608JB2A332K080AA |
| | | | ± 20% | | | C1608JB2A332M080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012JB2E332K085AA | C2012JB2A332K085AA |
| | | | ± 20% | | C2012JB2E332M085AA | C2012JB2A332M085AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216JB2J332K115AA | | |
| | | | ± 20% | C3216JB2J332M115AA | | |
| 4.7 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608JB2A472K080AA |
| | | | ± 20% | | | C1608JB2A472M080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012JB2E472K085AA | C2012JB2A472K085AA |
| | | | ± 20% | | C2012JB2E472M085AA | C2012JB2A472M085AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216JB2J472K115AA | | |
| | | | ± 20% | C3216JB2J472M115AA | | |
| 6.8 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608JB2A682K080AA |
| | | | ± 20% | | | C1608JB2A682M080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | | C2012JB2A682K085AA |
| | | | ± 20% | | | C2012JB2A682M085AA |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: JB (-25 to +85°C, ±10%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 6.8 nF | 2012 | 1.25 ± 0.20 | ± 10% | | C2012JB2E682K125AA | |
| | | | ± 20% | | C2012JB2E682M125AA | |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216JB2J682K115AA | | |
| | | | ± 20% | C3216JB2J682M115AA | | |
| 10 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608JB2A103K080AA |
| | | | ± 20% | | | C1608JB2A103M080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | | C2012JB2A103K085AA |
| | | | ± 20% | | | C2012JB2A103M085AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | C2012JB2E103K125AA | |
| | | | ± 20% | | C2012JB2E103M125AA | |
| 15 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608JB2A153K080AA |
| | | | ± 20% | | | C1608JB2A153M080AA |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012JB2E153K125AA | C2012JB2A153K125AA |
| | | | ± 20% | | C2012JB2E153M125AA | C2012JB2A153M125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | C3216JB2E153K115AA | |
| | | | ± 20% | | C3216JB2E153M115AA | |
| | 3216 | 1.30 ± 0.20 | ± 10% | C3216JB2J153K130AA | | |
| | | | ± 20% | C3216JB2J153M130AA | | |
| 22 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608JB2A223K080AA |
| | | | ± 20% | | | C1608JB2A223M080AA |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012JB2E223K125AA | C2012JB2A223K125AA |
| | | | ± 20% | | C2012JB2E223M125AA | C2012JB2A223M125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | C3216JB2E223K115AA | |
| | | | ± 20% | | C3216JB2E223M115AA | |
| 3216 | 1.30 ± 0.20 | ± 10% | C3216JB2J223K130AA | | | |
| | | ± 20% | C3216JB2J223M130AA | | | |
| 33 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012JB2A333K125AA |
| | | | ± 20% | | | C2012JB2A333M125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | | C3216JB2A333K115AA |
| | | | ± 20% | | | C3216JB2A333M115AA |
| 3216 | 1.60 ± 0.20 | ± 10% | C3216JB2J333K160AA | C3216JB2E333K160AA | | |
| | | ± 20% | C3216JB2J333M160AA | C3216JB2E333M160AA | | |
| 47 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012JB2A473K125AA |
| | | | ± 20% | | | C2012JB2A473M125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | | C3216JB2A473K115AA |
| | | | ± 20% | | | C3216JB2A473M115AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | | C3216JB2E473K160AA | |
| | | | ± 20% | | C3216JB2E473M160AA | |
| 3225 | 2.00 ± 0.20 | ± 10% | C3225JB2J473K200AA | | | |
| | | ± 20% | C3225JB2J473M200AA | | | |
| 68 nF | 2012 | 0.85 ± 0.15 | ± 10% | | | C2012JB2A683K085AA |
| | | | ± 20% | | | C2012JB2A683M085AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | | C3216JB2E683K160AA | C3216JB2A683K160AA |
| | | | ± 20% | | C3216JB2E683M160AA | C3216JB2A683M160AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | C3225JB2J683K200AA | | |
| | | | ± 20% | C3225JB2J683M200AA | | |
| 4532 | 1.60 ± 0.20 | ± 10% | C4532JB2J683K160KA | | | |
| | | ± 20% | C4532JB2J683M160KA | | | |
| 100 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012JB2A104K125AA |
| | | | ± 20% | | | C2012JB2A104M125AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | | C3216JB2E104K160AA | C3216JB2A104K160AA |
| | | | ± 20% | | C3216JB2E104M160AA | C3216JB2A104M160AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | C3225JB2E104K200AA | |
| | | | ± 20% | | C3225JB2E104M200AA | |
| 4532 | 2.30 ± 0.20 | ± 10% | C4532JB2J104K230KA | | | |
| | | ± 20% | C4532JB2J104M230KA | | | |
| 150 nF | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216JB2A154K160AA |
| | | | ± 20% | | | C3216JB2A154M160AA |
| 3225 | 2.00 ± 0.20 | ± 10% | | C3225JB2E154K200AA | | |
| | | ± 20% | | C3225JB2E154M200AA | | |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: JB (-25 to +85°C, ±10%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 150 nF | 4532 | 1.60 ± 0.20 | ± 10% | | C4532JB2E154K160KA | |
| | | | ± 20% | | C4532JB2E154M160KA | |
| | 5750 | 1.60 ± 0.20 | ± 10% | C5750JB2J154K160KA | | |
| | | | ± 20% | C5750JB2J154M160KA | | |
| 220 nF | 3216 | 1.15 ± 0.15 | ± 10% | | | C3216JB2A224K115AA |
| | | | ± 20% | | | C3216JB2A224M115AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | C3225JB2E224K200AA | |
| | | | ± 20% | | C3225JB2E224M200AA | |
| | 4532 | 2.30 ± 0.20 | ± 10% | | C4532JB2E224K230KA | |
| | | | ± 20% | | C4532JB2E224M230KA | |
| 5750 | 2.30 ± 0.20 | ± 10% | C5750JB2J224K230KA | | | |
| | | ± 20% | C5750JB2J224M230KA | | | |
| 330 nF | 3216 | 1.30 ± 0.20 | ± 10% | | | C3216JB2A334K130AA |
| | | | ± 20% | | | C3216JB2A334M130AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | | C3225JB2A334K200AA |
| | | | ± 20% | | | C3225JB2A334M200AA |
| | 4532 | 2.30 ± 0.20 | ± 10% | | C4532JB2E334K230KA | |
| | | | ± 20% | | C4532JB2E334M230KA | |
| 5750 | 1.60 ± 0.20 | ± 10% | | C5750JB2E334K160KA | | |
| | | ± 20% | | C5750JB2E334M160KA | | |
| 470 nF | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216JB2A474K160AA |
| | | | ± 20% | | | C3216JB2A474M160AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | | C3225JB2A474K200AA |
| | | | ± 20% | | | C3225JB2A474M200AA |
| | 4532 | 2.30 ± 0.20 | ± 10% | | C4532JB2E474K230KA | |
| | | | ± 20% | | C4532JB2E474M230KA | |
| 5750 | 2.30 ± 0.20 | ± 10% | | C5750JB2E474K230KA | | |
| | | ± 20% | | C5750JB2E474M230KA | | |
| 680 nF | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216JB2A684K160AA |
| | | | ± 20% | | | C3216JB2A684M160AA |
| | 3225 | 1.60 ± 0.20 | ± 10% | | | C3225JB2A684K160AA |
| | | | ± 20% | | | C3225JB2A684M160AA |
| | 4532 | 2.30 ± 0.20 | ± 10% | | | C4532JB2A684K230KA |
| | | | ± 20% | | | C4532JB2A684M230KA |
| 5750 | 1.60 ± 0.20 | ± 10% | | | C5750JB2A684K160KA | |
| | | ± 20% | | | C5750JB2A684M160KA | |
| 1 µF | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216JB2A105K160AA |
| | | | ± 20% | | | C3216JB2A105M160AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | | C3225JB2A105K200AA |
| | | | ± 20% | | | C3225JB2A105M200AA |
| | 4532 | 2.30 ± 0.20 | ± 10% | | | C4532JB2A105K230KA |
| | | | ± 20% | | | C4532JB2A105M230KA |
| 5750 | 2.30 ± 0.20 | ± 10% | | C5750JB2E105K230KA | C5750JB2A105K230KA | |
| | | ± 20% | | C5750JB2E105M230KA | C5750JB2A105M230KA | |
| 1.5 µF | 3225 | 2.00 ± 0.20 | ± 10% | | | C3225JB2A155K200AB |
| | | | ± 20% | | | C3225JB2A155M200AB |
| | 4532 | 2.30 ± 0.20 | ± 10% | | | C4532JB2A155K230KA |
| | | | ± 20% | | | C4532JB2A155M230KA |
| | 5750 | 2.30 ± 0.20 | ± 10% | | | C5750JB2A155K230KA |
| | | | ± 20% | | | C5750JB2A155M230KA |
| 2.2 µF | 3225 | 2.30 ± 0.20 | ± 10% | | | C3225JB2A225K230AB |
| | | | ± 20% | | | C3225JB2A225M230AB |
| | 4532 | 2.30 ± 0.20 | ± 10% | | | C4532JB2A225K230KA |
| | | | ± 20% | | | C4532JB2A225M230KA |
| 5750 | 2.30 ± 0.20 | ± 10% | | | C5750JB2A225K230KA | |
| | | ± 20% | | | C5750JB2A225M230KA | |
| 3.3 µF | 5750 | 2.30 ± 0.20 | ± 10% | | | C5750JB2A335K230KA |
| 4.7 µF | 5750 | 2.30 ± 0.20 | ± 10% | | | C5750JB2A335M230KA |
| | | | ± 20% | | | C5750JB2A475K230KA |
| | | | ± 20% | | | C5750JB2A475M230KA |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: X5R (-55 to +85°C, ±15%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | |
|-------------|------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 1 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X5R2A102K080AA |
| | | | ± 20% | | | C1608X5R2A102M080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012X5R2E102K085AA | |
| | | | ± 20% | | C2012X5R2E102M085AA | |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216X5R2J102K115AA | | |
| | | | ± 20% | C3216X5R2J102M115AA | | |
| 1.5 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X5R2A152K080AA |
| | | | ± 20% | | | C1608X5R2A152M080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012X5R2E152K085AA | |
| | | | ± 20% | | C2012X5R2E152M085AA | |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216X5R2J152K115AA | | |
| | | | ± 20% | C3216X5R2J152M115AA | | |
| 2.2 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X5R2A222K080AA |
| | | | ± 20% | | | C1608X5R2A222M080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012X5R2E222K085AA | |
| | | | ± 20% | | C2012X5R2E222M085AA | |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216X5R2J222K115AA | | |
| | | | ± 20% | C3216X5R2J222M115AA | | |
| 3.3 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X5R2A332K080AA |
| | | | ± 20% | | | C1608X5R2A332M080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012X5R2E332K085AA | |
| | | | ± 20% | | C2012X5R2E332M085AA | |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216X5R2J332K115AA | | |
| | | | ± 20% | C3216X5R2J332M115AA | | |
| 4.7 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X5R2A472K080AA |
| | | | ± 20% | | | C1608X5R2A472M080AA |
| | 2012 | 0.85 ± 0.15 | ± 10% | | C2012X5R2E472K085AA | |
| | | | ± 20% | | C2012X5R2E472M085AA | |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216X5R2J472K115AA | | |
| | | | ± 20% | C3216X5R2J472M115AA | | |
| 6.8 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X5R2A682K080AA |
| | | | ± 20% | | | C1608X5R2A682M080AA |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012X5R2E682K125AA | |
| | | | ± 20% | | C2012X5R2E682M125AA | |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216X5R2J682K115AA | | |
| | | | ± 20% | C3216X5R2J682M115AA | | |
| 10 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X5R2A103K080AA |
| | | | ± 20% | | | C1608X5R2A103M080AA |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012X5R2E103K125AA | |
| | | | ± 20% | | C2012X5R2E103M125AA | |
| | 3216 | 1.15 ± 0.15 | ± 10% | C3216X5R2J103K115AA | | |
| | | | ± 20% | C3216X5R2J103M115AA | | |
| 15 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X5R2A153K080AA |
| | | | ± 20% | | | C1608X5R2A153M080AA |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012X5R2E153K125AA | |
| | | | ± 20% | | C2012X5R2E153M125AA | |
| | 3216 | 1.30 ± 0.20 | ± 10% | C3216X5R2J153K130AA | | |
| | | | ± 20% | C3216X5R2J153M130AA | | |
| 22 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X5R2A223K080AA |
| | | | ± 20% | | | C1608X5R2A223M080AA |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012X5R2E223K125AA | |
| | | | ± 20% | | C2012X5R2E223M125AA | |
| | 3216 | 1.30 ± 0.20 | ± 10% | C3216X5R2J223K130AA | | |
| | | | ± 20% | C3216X5R2J223M130AA | | |
| 33 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012X5R2A333K125AA |
| | | | ± 20% | | | C2012X5R2A333M125AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | C3216X5R2J333K160AA | C3216X5R2E333K160AA | |
| | | | ± 20% | C3216X5R2J333M160AA | C3216X5R2E333M160AA | |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: X5R (-55 to +85°C, ±15%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 47 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012X5R2A473K125AA |
| | | | ± 20% | | | C2012X5R2A473M125AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | | C3216X5R2E473K160AA | |
| | | | ± 20% | | C3216X5R2E473M160AA | |
| | 3225 | 2.00 ± 0.20 | ± 10% | C3225X5R2J473K200AA | | |
| | | | ± 20% | C3225X5R2J473M200AA | | |
| 68 nF | 2012 | 0.85 ± 0.15 | ± 10% | | | C2012X5R2A683K085AA |
| | | | ± 20% | | | C2012X5R2A683M085AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | | C3216X5R2E683K160AA | |
| | | | ± 20% | | C3216X5R2E683M160AA | |
| | 3225 | 2.00 ± 0.20 | ± 10% | C3225X5R2J683K200AA | | |
| | | | ± 20% | C3225X5R2J683M200AA | | |
| 100 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012X5R2A104K125AA |
| | | | ± 20% | | | C2012X5R2A104M125AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | | C3216X5R2E104K160AA | |
| | | | ± 20% | | C3216X5R2E104M160AA | |
| | 4532 | 2.30 ± 0.20 | ± 10% | C4532X5R2J104K230KA | | |
| | | | ± 20% | C4532X5R2J104M230KA | | |
| 150 nF | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216X5R2A154K160AA |
| | | | ± 20% | | | C3216X5R2A154M160AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | C3225X5R2E154K200AA | |
| | | | ± 20% | | C3225X5R2E154M200AA | |
| | 5750 | 1.60 ± 0.20 | ± 10% | C5750X5R2J154K160KA | | |
| | | | ± 20% | C5750X5R2J154M160KA | | |
| 220 nF | 3216 | 1.15 ± 0.15 | ± 10% | | | C3216X5R2A224K115AA |
| | | | ± 20% | | | C3216X5R2A224M115AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | C3225X5R2E224K200AA | |
| | | | ± 20% | | C3225X5R2E224M200AA | |
| | 5750 | 2.30 ± 0.20 | ± 10% | C5750X5R2J224K230KA | | |
| | | | ± 20% | C5750X5R2J224M230KA | | |
| 330 nF | 3216 | 1.30 ± 0.20 | ± 10% | | | C3216X5R2A334K130AA |
| | | | ± 20% | | | C3216X5R2A334M130AA |
| | 4532 | 2.30 ± 0.20 | ± 10% | | C4532X5R2E334K230KA | |
| 470 nF | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216X5R2A474K160AA |
| | | | ± 20% | | | C3216X5R2A474M160AA |
| | 4532 | 2.30 ± 0.20 | ± 10% | | C4532X5R2E474K230KA | |
| | | | ± 20% | | C4532X5R2E474M230KA | |
| | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216X5R2A684K160AA |
| | | | ± 20% | | | C3216X5R2A684M160AA |
| 5750 | 2.30 ± 0.20 | ± 10% | | C5750X5R2E684K230KA | | |
| | | ± 20% | | C5750X5R2E684M230KA | | |
| 1 µF | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216X5R2A105K160AA |
| | | | ± 20% | | | C3216X5R2A105M160AA |
| | 5750 | 2.30 ± 0.20 | ± 10% | | C5750X5R2E105K230KA | |
| 1.5 µF | 3225 | 2.00 ± 0.20 | ± 10% | | | C3225X5R2A155K200AB |
| | | | ± 20% | | | C3225X5R2A155M200AB |
| 2.2 µF | 3225 | 2.30 ± 0.20 | ± 10% | | | C3225X5R2A225K230AB |
| | | | ± 20% | | | C3225X5R2A225M230AB |
| 3.3 µF | 5750 | 2.30 ± 0.20 | ± 10% | | | C5750X5R2A335K230KA |
| | | | ± 20% | | | C5750X5R2A335M230KA |
| 4.7 µF | 5750 | 2.30 ± 0.20 | ± 10% | | | C5750X5R2A475K230KA |
| | | | ± 20% | | | C5750X5R2A475M230KA |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: X6S (-55 to +105°C, ±22%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | |
|-------------|------|----------------|-----------------------|-------------------------|--|
| | | | | Rated Voltage Edc: 450V | |
| 1 µF | 5750 | 2.50 ± 0.30 | ± 10% | C5750X6S2W105K250KA | |
| | | | ± 20% | C5750X6S2W105M250KA | |
| 2.2 µF | 5750 | 2.50 ± 0.30 | ± 10% | C5750X6S2W225K250KA | |
| | | | ± 20% | C5750X6S2W225M250KA | |

Class 2 (Temperature Stable)

Temperature Characteristics: X7R (-55 to +125°C, ±15%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 1 nF | 1608 | 0.80 ± 0.10 | ± 10% | C1608X7R2A102K080AA | | |
| | | | ± 20% | C1608X7R2A102M080AA | | |
| | 2012 | 0.85 ± 0.15 | ± 10% | C2012X7R2E102K085AA | C2012X7R2A102K085AA | |
| | | | ± 20% | C2012X7R2E102M085AA | C2012X7R2A102M085AA | |
| 3216 | 1.15 ± 0.15 | ± 10% | C3216X7R2J102K115AA | | | |
| | | ± 20% | C3216X7R2J102M115AA | | | |
| 1.5 nF | 1608 | 0.80 ± 0.10 | ± 10% | C1608X7R2A152K080AA | | |
| | | | ± 20% | C1608X7R2A152M080AA | | |
| | 2012 | 0.85 ± 0.15 | ± 10% | C2012X7R2E152K085AA | C2012X7R2A152K085AA | |
| | | | ± 20% | C2012X7R2E152M085AA | C2012X7R2A152M085AA | |
| 3216 | 1.15 ± 0.15 | ± 10% | C3216X7R2J152K115AA | | | |
| | | ± 20% | C3216X7R2J152M115AA | | | |
| 2.2 nF | 1608 | 0.80 ± 0.10 | ± 10% | C1608X7R2A222K080AA | | |
| | | | ± 20% | C1608X7R2A222M080AA | | |
| | 2012 | 0.85 ± 0.15 | ± 10% | C2012X7R2E222K085AA | C2012X7R2A222K085AA | |
| | | | ± 20% | C2012X7R2E222M085AA | C2012X7R2A222M085AA | |
| 3216 | 1.15 ± 0.15 | ± 10% | C3216X7R2J222K115AA | | | |
| | | ± 20% | C3216X7R2J222M115AA | | | |
| 3.3 nF | 1608 | 0.80 ± 0.10 | ± 10% | C1608X7R2A332K080AA | | |
| | | | ± 20% | C1608X7R2A332M080AA | | |
| | 2012 | 0.85 ± 0.15 | ± 10% | C2012X7R2E332K085AA | C2012X7R2A332K085AA | |
| | | | ± 20% | C2012X7R2E332M085AA | C2012X7R2A332M085AA | |
| 3216 | 1.15 ± 0.15 | ± 10% | C3216X7R2J332K115AA | | | |
| | | ± 20% | C3216X7R2J332M115AA | | | |
| 4.7 nF | 1608 | 0.80 ± 0.10 | ± 10% | C1608X7R2A472K080AA | | |
| | | | ± 20% | C1608X7R2A472M080AA | | |
| | 2012 | 0.85 ± 0.15 | ± 10% | C2012X7R2E472K085AA | C2012X7R2A472K085AA | |
| | | | ± 20% | C2012X7R2E472M085AA | C2012X7R2A472M085AA | |
| 3216 | 1.15 ± 0.15 | ± 10% | C3216X7R2J472K115AA | | | |
| | | ± 20% | C3216X7R2J472M115AA | | | |
| 6.8 nF | 1608 | 0.80 ± 0.10 | ± 10% | C1608X7R2A682K080AA | | |
| | | | ± 20% | C1608X7R2A682M080AA | | |
| | 2012 | 0.85 ± 0.15 | ± 10% | C2012X7R2A682K085AA | | |
| | | | ± 20% | C2012X7R2A682M085AA | | |
| 3216 | 1.15 ± 0.15 | ± 10% | C2012X7R2E682K125AA | | | |
| | | ± 20% | C2012X7R2E682M125AA | | | |
| 10 nF | 1608 | 0.80 ± 0.10 | ± 10% | C1608X7R2A103K080AA | | |
| | | | ± 20% | C1608X7R2A103M080AA | | |
| | 2012 | 0.85 ± 0.15 | ± 10% | C2012X7R2A103K085AA | | |
| | | | ± 20% | C2012X7R2A103M085AA | | |
| 3216 | 1.15 ± 0.15 | ± 10% | C2012X7R2E103K125AA | | | |
| | | ± 20% | C2012X7R2E103M125AA | | | |
| 3216 | 1.15 ± 0.15 | ± 10% | C3216X7R2J103K115AA | | | |
| | | ± 20% | C3216X7R2J103M115AA | | | |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: X7R (-55 to +125°C, ±15%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 15 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X7R2A153K080AA |
| | | | ± 20% | | | C1608X7R2A153M080AA |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012X7R2E153K125AA | C2012X7R2A153K125AA |
| | | | ± 20% | | C2012X7R2E153M125AA | C2012X7R2A153M125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | C3216X7R2E153K115AA | |
| | | | ± 20% | | C3216X7R2E153M115AA | |
| 3216 | 1.30 ± 0.20 | ± 10% | C3216X7R2J153K130AA | | | |
| | | ± 20% | C3216X7R2J153M130AA | | | |
| 22 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X7R2A223K080AA |
| | | | ± 20% | | | C1608X7R2A223M080AA |
| | 2012 | 1.25 ± 0.20 | ± 10% | | C2012X7R2E223K125AA | C2012X7R2A223K125AA |
| | | | ± 20% | | C2012X7R2E223M125AA | C2012X7R2A223M125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | C3216X7R2E223K115AA | |
| | | | ± 20% | | C3216X7R2E223M115AA | |
| 3216 | 1.30 ± 0.20 | ± 10% | C3216X7R2J223K130AA | | | |
| | | ± 20% | C3216X7R2J223M130AA | | | |
| 33 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012X7R2A333K125AA |
| | | | ± 20% | | | C2012X7R2A333M125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | | C3216X7R2A333K115AA |
| | | | ± 20% | | | C3216X7R2A333M115AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | C3216X7R2J333K160AA | C3216X7R2E333K160AA | |
| | | | ± 20% | C3216X7R2J333M160AA | C3216X7R2E333M160AA | |
| 47 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012X7R2A473K125AA |
| | | | ± 20% | | | C2012X7R2A473M125AA |
| | 3216 | 1.15 ± 0.15 | ± 10% | | | C3216X7R2A473K115AA |
| | | | ± 20% | | | C3216X7R2A473M115AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | | C3216X7R2E473K160AA | |
| | | | ± 20% | | C3216X7R2E473M160AA | |
| 3225 | 2.00 ± 0.20 | ± 10% | C3225X7R2J473K200AA | | | |
| | | ± 20% | C3225X7R2J473M200AA | | | |
| 68 nF | 2012 | 0.85 ± 0.15 | ± 10% | | | C2012X7R2A683K085AA |
| | | | ± 20% | | | C2012X7R2A683M085AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | | C3216X7R2E683K160AA | C3216X7R2A683K160AA |
| | | | ± 20% | | C3216X7R2E683M160AA | C3216X7R2A683M160AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | C3225X7R2J683K200AA | | |
| | | | ± 20% | C3225X7R2J683M200AA | | |
| 4532 | 1.60 ± 0.20 | ± 10% | C4532X7R2J683K160KA | | | |
| | | ± 20% | C4532X7R2J683M160KA | | | |
| 100 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012X7R2A104K125AA |
| | | | ± 20% | | | C2012X7R2A104M125AA |
| | 3216 | 1.60 ± 0.20 | ± 10% | | C3216X7R2E104K160AA | C3216X7R2A104K160AA |
| | | | ± 20% | | C3216X7R2E104M160AA | C3216X7R2A104M160AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | C3225X7R2E104K200AA | |
| | | | ± 20% | | C3225X7R2E104M200AA | |
| 4532 | 2.30 ± 0.20 | ± 10% | C4532X7R2J104K230KA | | | |
| | | ± 20% | C4532X7R2J104M230KA | | | |
| 150 nF | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216X7R2A154K160AA |
| | | | ± 20% | | | C3216X7R2A154M160AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | C3225X7R2E154K200AA | |
| | | | ± 20% | | C3225X7R2E154M200AA | |
| | 4532 | 1.60 ± 0.20 | ± 10% | | C4532X7R2E154K160KA | |
| | | | ± 20% | | C4532X7R2E154M160KA | |
| 5750 | 1.60 ± 0.20 | ± 10% | C5750X7R2J154K160KA | | | |
| | | ± 20% | C5750X7R2J154M160KA | | | |
| 220 nF | 3216 | 1.15 ± 0.15 | ± 10% | | | C3216X7R2A224K115AA |
| | | | ± 20% | | | C3216X7R2A224M115AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | C3225X7R2E224K200AA | |
| | | | ± 20% | | C3225X7R2E224M200AA | |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: X7R (-55 to +125°C, ±15%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 220 nF | 4532 | 2.30 ± 0.20 | ± 10% | | C4532X7R2E224K230KA | |
| | | | ± 20% | | C4532X7R2E224M230KA | |
| | 5750 | 2.30 ± 0.20 | ± 10% | C5750X7R2J224K230KA | | |
| | | | ± 20% | C5750X7R2J224M230KA | | |
| 330 nF | 3216 | 1.30 ± 0.20 | ± 10% | | | C3216X7R2A334K130AA |
| | | | ± 20% | | | C3216X7R2A334M130AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | | C3225X7R2A334K200AA |
| | | | ± 20% | | | C3225X7R2A334M200AA |
| | 4532 | 2.30 ± 0.20 | ± 10% | | C4532X7R2E334K230KA | |
| | | | ± 20% | | C4532X7R2E334M230KA | |
| 5750 | 1.60 ± 0.20 | ± 10% | | C5750X7R2E334K160KA | | |
| | | | ± 20% | | C5750X7R2E334M160KA | |
| | | | 3216 | 1.60 ± 0.20 | ± 10% | |
| ± 20% | | | | | C3216X7R2A474M160AA | |
| 470 nF | 3225 | 2.00 ± 0.20 | ± 10% | | | C3225X7R2A474K200AA |
| | | | ± 20% | | | C3225X7R2A474M200AA |
| | 4532 | 2.30 ± 0.20 | ± 10% | | C4532X7R2E474K230KA | |
| | | | ± 20% | | C4532X7R2E474M230KA | |
| 5750 | 2.30 ± 0.20 | ± 10% | | C5750X7R2E474K230KA | | |
| | | ± 20% | | C5750X7R2E474M230KA | | |
| 680 nF | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216X7R2A684K160AA |
| | | | ± 20% | | | C3216X7R2A684M160AA |
| | 3225 | 1.60 ± 0.20 | ± 10% | | | C3225X7R2A684K160AA |
| | | | ± 20% | | | C3225X7R2A684M160AA |
| | 4532 | 2.30 ± 0.20 | ± 10% | | C4532X7R2A684K230KA | |
| | | | ± 20% | | C4532X7R2A684M230KA | |
| 5750 | 1.60 ± 0.20 | ± 10% | | C5750X7R2A684K160KA | | |
| | | ± 20% | | C5750X7R2A684M160KA | | |
| | | | ± 10% | C5750X7R2E684K230KA | | |
| | | | ± 20% | C5750X7R2E684M230KA | | |
| 1 µF | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216X7R2A105K160AA |
| | | | ± 20% | | | C3216X7R2A105M160AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | | C3225X7R2A105K200AA |
| | | | ± 20% | | | C3225X7R2A105M200AA |
| | 4532 | 2.30 ± 0.20 | ± 10% | | | C4532X7R2A105K230KA |
| | | | ± 20% | | | C4532X7R2A105M230KA |
| 5750 | 2.30 ± 0.20 | ± 10% | | C5750X7R2E105K230KA | C5750X7R2A105K230KA | |
| | | ± 20% | | C5750X7R2E105M230KA | C5750X7R2A105M230KA | |
| 1.5 µF | 3225 | 2.00 ± 0.20 | ± 10% | | | C3225X7R2A155K200AB |
| | | | ± 20% | | | C3225X7R2A155M200AB |
| | 4532 | 2.30 ± 0.20 | ± 10% | | | C4532X7R2A155K230KA |
| | | | ± 20% | | | C4532X7R2A155M230KA |
| 5750 | 2.30 ± 0.20 | ± 10% | | | C5750X7R2A155K230KA | |
| | | ± 20% | | | C5750X7R2A155M230KA | |
| 2.2 µF | 3225 | 2.30 ± 0.20 | ± 10% | | | C3225X7R2A225K230AB |
| | | | ± 20% | | | C3225X7R2A225M230AB |
| | 4532 | 2.30 ± 0.20 | ± 10% | | | C4532X7R2A225K230KA |
| | | | ± 20% | | | C4532X7R2A225M230KA |
| 5750 | 2.30 ± 0.20 | ± 10% | | | C5750X7R2A225K230KA | |
| | | ± 20% | | | C5750X7R2A225M230KA | |
| 3.3 µF | 5750 | 2.30 ± 0.20 | ± 10% | | | C5750X7R2A335K230KA |
| | | | ± 20% | | | C5750X7R2A335M230KA |
| 4.7 µF | 5750 | 2.30 ± 0.20 | ± 10% | | | C5750X7R2A475K230KA |
| | | | ± 20% | | | C5750X7R2A475M230KA |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: X7S (-55 to +125°C, ±22%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | |
|-------------|-------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V |
| 1 nF | 1005 | 0.50 ± 0.05 | ± 10% | | | C1005X7S2A102K050BB |
| | | | ± 20% | | | C1005X7S2A102M050BB |
| 1.5 nF | 1005 | 0.50 ± 0.05 | ± 10% | | | C1005X7S2A152K050BB |
| | | | ± 20% | | | C1005X7S2A152M050BB |
| 2.2 nF | 1005 | 0.50 ± 0.05 | ± 10% | | | C1005X7S2A222K050BB |
| | | | ± 20% | | | C1005X7S2A222M050BB |
| 3.3 nF | 1005 | 0.50 ± 0.05 | ± 10% | | | C1005X7S2A332K050BB |
| | | | ± 20% | | | C1005X7S2A332M050BB |
| 4.7 nF | 1005 | 0.50 ± 0.05 | ± 10% | | | C1005X7S2A472K050BB |
| | | | ± 20% | | | C1005X7S2A472M050BB |
| 6.8 nF | 1005 | 0.50 ± 0.05 | ± 10% | | | C1005X7S2A682K050BB |
| | | | ± 20% | | | C1005X7S2A682M050BB |
| 10 nF | 1005 | 0.50 ± 0.05 | ± 10% | | | C1005X7S2A103K050BB |
| | | | ± 20% | | | C1005X7S2A103M050BB |
| 33 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X7S2A333K080AB |
| | | | ± 20% | | | C1608X7S2A333M080AB |
| 47 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X7S2A473K080AB |
| | | | ± 20% | | | C1608X7S2A473M080AB |
| 68 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X7S2A683K080AB |
| | | | ± 20% | | | C1608X7S2A683M080AB |
| 100 nF | 1608 | 0.80 ± 0.10 | ± 10% | | | C1608X7S2A104K080AB |
| | | | ± 20% | | | C1608X7S2A104M080AB |
| 150 nF | 2012 | 0.85 ± 0.15 | ± 10% | | | C2012X7S2A154K085AB |
| | | | ± 20% | | | C2012X7S2A154M085AB |
| 220 nF | 2012 | 0.85 ± 0.15 | ± 10% | | | C2012X7S2A224K085AB |
| | | | ± 20% | | | C2012X7S2A224M085AB |
| 330 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012X7S2A334K125AB |
| | | | ± 20% | | | C2012X7S2A334M125AB |
| 470 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012X7S2A474K125AB |
| | | | ± 20% | | | C2012X7S2A474M125AB |
| 680 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012X7S2A684K125AB |
| | | | ± 20% | | | C2012X7S2A684M125AB |
| 1 µF | 2012 | 1.25 ± 0.20 | ± 10% | | | C2012X7S2A105K125AB |
| | | | ± 20% | | | C2012X7S2A105M125AB |
| 1.5 µF | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216X7S2A155K160AB |
| | | | ± 20% | | | C3216X7S2A155M160AB |
| 2.2 µF | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216X7S2A225K160AB |
| | | | ± 20% | | | C3216X7S2A225M160AB |
| | 3216 | 1.60 ± 0.20 | ± 10% | | | C3216X7S2A335K160AB |
| | | | ± 20% | | | C3216X7S2A335M160AB |
| 3.3 µF | 3225 | 2.00 ± 0.20 | ± 10% | | | C3225X7S2A335K200AB |
| | | | ± 20% | | | C3225X7S2A335M200AB |
| 4.7 µF | 4532 | 2.00 ± 0.20 | ± 10% | | | C4532X7S2A335K200KB |
| | | | ± 20% | | | C4532X7S2A335M200KB |
| | 3225 | 2.00 ± 0.20 | ± 10% | | | C3225X7S2A475K200AB |
| | | | ± 20% | | | C3225X7S2A475M200AB |
| 4532 | 2.30 ± 0.20 | ± 10% | | | C4532X7S2A475K230KB | |
| | | ± 20% | | | C4532X7S2A475M230KB | |
| 6.8 µF | 5750 | 2.00 ± 0.20 | ± 10% | | | C5750X7S2A685K200KB |
| | | | ± 20% | | | C5750X7S2A685M200KB |
| 10 µF | 5750 | 2.30 ± 0.20 | ± 10% | | | C5750X7S2A106K230KB |
| | | | ± 20% | | | C5750X7S2A106M230KB |
| 15 µF | 5750 | 2.50 ± 0.30 | ± 20% | | | C5750X7S2A156M250KB |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: X7T (-55 to +125°C, +22/-33%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|-------|---------------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 350V | Rated Voltage Edc: 250V |
| 10 nF | 2012 | 0.85 ± 0.15 | ± 10% | | C2012X7T2W103K085AA | C2012X7T2V103K085AA | |
| | | | ± 20% | | C2012X7T2W103M085AA | C2012X7T2V103M085AA | |
| | ± 10% | C3216X7T2J103K085AC | | | | | |
| | ± 20% | C3216X7T2J103M085AC | | | | | |
| 15 nF | 2012 | 0.85 ± 0.15 | ± 10% | | C2012X7T2W153K085AA | C2012X7T2V153K085AA | |
| | | | ± 20% | | C2012X7T2W153M085AA | C2012X7T2V153M085AA | |
| | ± 10% | C3216X7T2J153K085AC | | | | | |
| | ± 20% | C3216X7T2J153M085AC | | | | | |
| 22 nF | 2012 | 1.25 ± 0.20 | ± 10% | | C2012X7T2W223K125AA | C2012X7T2V223K125AA | |
| | | | ± 20% | | C2012X7T2W223M125AA | C2012X7T2V223M125AA | |
| | ± 10% | C3216X7T2J223K115AC | | | | | |
| | ± 20% | C3216X7T2J223M115AC | | | | | |
| 33 nF | 2012 | 1.25 ± 0.20 | ± 10% | | C2012X7T2W333K125AA | C2012X7T2V333K125AA | C2012X7T2E333K125AA |
| | | | ± 20% | | C2012X7T2W333M125AA | C2012X7T2V333M125AA | C2012X7T2E333M125AA |
| | ± 10% | C3216X7T2J333K115AC | | | | | |
| | ± 20% | C3216X7T2J333M115AC | | | | | |
| 47 nF | 2012 | 1.25 ± 0.20 | ± 10% | | C2012X7T2W473K125AA | C2012X7T2V473K125AA | C2012X7T2E473K125AA |
| | | | ± 20% | | C2012X7T2W473M125AA | C2012X7T2V473M125AA | C2012X7T2E473M125AA |
| | ± 10% | C3216X7T2J473K160AC | | | | | |
| | ± 20% | C3216X7T2J473M160AC | | | | | |
| 68 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | | C2012X7T2E683K125AA |
| | | | ± 20% | | | | C2012X7T2E683M125AA |
| | ± 10% | | C3216X7T2W683K130AA | C3216X7T2V683K130AA | | | |
| | ± 20% | | C3216X7T2W683M130AA | C3216X7T2V683M130AA | | | |
| 100 nF | 2012 | 1.25 ± 0.20 | ± 10% | | | | C2012X7T2E104K125AA |
| | | | ± 20% | | | | C2012X7T2E104M125AA |
| | ± 10% | | C3216X7T2W104K160AA | C3216X7T2V104K160AA | | | |
| | ± 20% | | C3216X7T2W104M160AA | C3216X7T2V104M160AA | | | |
| 150 nF | 3225 | 1.60 ± 0.20 | ± 10% | C3225X7T2J104K160AC | | | |
| | | | ± 20% | C3225X7T2J104M160AC | | | |
| | 3216 | 1.30 ± 0.20 | ± 10% | | | | C3216X7T2E154K130AA |
| | | | ± 20% | | | | C3216X7T2E154M130AA |
| 220 nF | 3225 | 2.00 ± 0.20 | ± 10% | C3225X7T2J154K200AC | | | |
| | | | ± 20% | C3225X7T2J154M200AC | | | |
| | 4532 | 1.60 ± 0.20 | ± 10% | C4532X7T2J154K160KC | | | |
| | | | ± 20% | C4532X7T2J154M160KC | | | |
| 300 nF | 3216 | 1.60 ± 0.20 | ± 10% | | | | C3216X7T2E224K160AA |
| | | | ± 20% | | | | C3216X7T2E224M160AA |
| | 3225 | 2.00 ± 0.20 | ± 10% | | C3225X7T2W224K200AA | | |
| | | | ± 20% | | C3225X7T2W224M200AA | | |
| 330 nF | 4532 | 2.00 ± 0.20 | ± 10% | C4532X7T2J224K200KC | | | |
| | | | ± 20% | C4532X7T2J224M200KC | | | |
| | 3225 | 2.00 ± 0.20 | ± 10% | C4532X7T2J304K250KA | | | |
| | | | ± 20% | C4532X7T2J304M250KA | | | |
| 470 nF | 4532 | 2.30 ± 0.20 | ± 10% | | C4532X7T2W334K160KA | | |
| | | | ± 20% | | C4532X7T2W334M160KA | | |
| | 5750 | 2.00 ± 0.20 | ± 10% | C5750X7T2J334K200KC | | | |
| | | | ± 20% | C5750X7T2J334M200KC | | | |
| 680 nF | 4532 | 1.60 ± 0.20 | ± 10% | | C4532X7T2W474K230KA | | |
| | | | ± 20% | | C4532X7T2W474M230KA | | |
| | 5750 | 2.00 ± 0.20 | ± 10% | C5750X7T2J474K250KC | | | |
| | | | ± 20% | C5750X7T2J474M250KC | | | |
| 1 µF | 4532 | 2.50 ± 0.30 | ± 10% | | | | C4532X7T2E684K160KA |
| | | | ± 20% | | | | C4532X7T2E684M160KA |
| | 5750 | 2.00 ± 0.20 | ± 10% | | C5750X7T2W684K200KA | | |
| | | | ± 20% | | C5750X7T2W684M200KA | | |
| 1.5 µF | 4532 | 2.50 ± 0.30 | ± 10% | | | | C4532X7T2E105K250KA |
| | | | ± 20% | | | | C4532X7T2E105M250KA |
| | 5750 | 2.50 ± 0.30 | ± 10% | | C5750X7T2W105K250KA | | |
| | | | ± 20% | | C5750X7T2W105M250KA | | |
| 2.2 µF | 5750 | 2.50 ± 0.30 | ± 10% | | | | C5750X7T2E155K200KA |
| | | | ± 20% | | | | C5750X7T2E155M200KA |
| | | | ± 10% | | | | C5750X7T2E225K250KA |
| | | | ± 20% | | | | C5750X7T2E225M250KA |

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