



## MULTILAYER CERAMIC CHIP CAPACITORS

### **C Series Commercial Grade Open Mode**

Type:

C2012 [EIA CC0805]  
C3216 [EIA CC1206]  
C3225 [EIA CC1210]  
C4532 [EIA CC1812]  
C5750 [EIA CC2220]

Issue date:  
Dec 2014



## REMINDERS

Please read before using this product

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(Example)

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



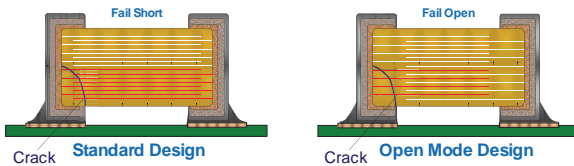
## C Series Open Mode

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

### Features



- When a chip capacitor is cracked by mechanical stress such as board bending, open mode construction helps user reduce the risk of short circuits.



- Open Mode capacitor is designed with wider gap between the terminal and the internal electrodes to help reduce the risk of short circuit in the event of capacitor cracking due to mechanical stress such as board bending.

### Applications



- High reliability and high mechanical stress applications
- Battery line circuits with high board flex stress
- DC-DC Converter

### Shape & Dimensions



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



### Catalog Number Construction

**C • 5750 • X7R • 1C • 226 • M • 280 • K • M**

#### Series Name

#### Dimensions L x W (mm)

| Code  | Length      | Width       | Terminal  |
|-------|-------------|-------------|-----------|
| C2012 | 2.00 ± 0.20 | 1.25 ± 0.20 | 0.20 min. |
| C3216 | 3.20 ± 0.20 | 1.60 ± 0.20 | 0.20 min. |
| C3225 | 3.20 ± 0.40 | 2.50 ± 0.30 | 0.20 min. |
| C4532 | 4.50 ± 0.40 | 3.20 ± 0.40 | 0.20 min. |
| C5750 | 5.70 ± 0.40 | 5.00 ± 0.40 | 0.20 min. |

#### Temperature Characteristics

| Temperature Characteristics | Capacitance Change | Temperature Range |
|-----------------------------|--------------------|-------------------|
| X7R                         | ± 15%              | -55 to +125°C     |

#### Rated Voltage (DC)

| Code | Voltage (DC) | Code | Voltage (DC) |
|------|--------------|------|--------------|
| 1C   | 16V          | 2A   | 100V         |
| 1E   | 25V          | 2E   | 250V         |
| 1H   | 50V          | 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 = 1,000nF

#### Capacitance Tolerance

| Code | Tolerance |
|------|-----------|
| K    | ± 10%     |
| M    | ± 20%     |

#### Nominal Thickness

| Code | Thickness |
|------|-----------|
| 085  | 0.85 mm   |
| 115  | 1.15 mm   |
| 125  | 1.25 mm   |
| 130  | 1.30 mm   |
| 160  | 1.60 mm   |
| 200  | 2.00 mm   |
| 230  | 2.30 mm   |
| 250  | 2.50 mm   |
| 280  | 2.80 mm   |

#### Packaging Style

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

#### Special Reserved Code

| Code | Description      |
|------|------------------|
| M    | Open Mode Design |



## Capacitance Range Chart

## EIA CC0805 [C2012]

### Capacitance Range Chart

Temperature Characteristics: X7R ( $\pm 15\%$ )  
 Rated Voltage: 250V (2E), 100V (2A), 50V (1H)

| Capacitance (pF) | Code | Tolerance     | X7R       |           |          |
|------------------|------|---------------|-----------|-----------|----------|
|                  |      |               | 2E (250V) | 2A (100V) | 1H (50V) |
| 1,000            | 102  | K: $\pm 10\%$ | 0.85 mm   | 0.85 mm   |          |
| 1,500            | 152  |               |           |           |          |
| 2,200            | 222  |               |           |           |          |
| 3,300            | 332  |               |           |           |          |
| 4,700            | 472  |               |           |           |          |
| 6,800            | 682  |               |           |           |          |
| 10,000           | 103  |               |           |           |          |
| 15,000           | 153  |               |           |           |          |
| 22,000           | 223  |               |           |           |          |
| 100,000          | 104  |               |           |           |          |

Standard Thickness

0.85 mm

1.25 mm



## Capacitance Range Chart

## EIA CC1206 [C3216]

### Capacitance Range Chart

Temperature Characteristics: X7R ( $\pm 15\%$ )  
 Rated Voltage: 630V (2J), 250V (2E), 100V (2A), 16V (1C)

| Capacitance (pF) | Code | Tolerance                      | X7R       |           |           |          |  |
|------------------|------|--------------------------------|-----------|-----------|-----------|----------|--|
|                  |      |                                | 2J (630V) | 2E (250V) | 2A (100V) | 1C (16V) |  |
| 1,000            | 102  | K: $\pm 10\%$<br>M: $\pm 20\%$ | 1.15 mm   |           |           |          |  |
| 1,500            | 152  |                                |           |           |           |          |  |
| 2,200            | 222  |                                |           |           |           |          |  |
| 3,300            | 332  |                                |           |           |           |          |  |
| 4,700            | 472  |                                |           |           |           |          |  |
| 6,800            | 682  |                                |           |           |           |          |  |
| 10,000           | 103  |                                |           |           |           |          |  |
| 15,000           | 153  |                                |           |           |           |          |  |
| 22,000           | 223  |                                |           |           | 1.30 mm   |          |  |
| 33,000           | 333  |                                |           |           |           | 1.60 mm  |  |
| 47,000           | 473  |                                |           | 1.60 mm   |           |          |  |
| 68,000           | 683  |                                |           |           |           |          |  |
| 100,000          | 104  |                                |           |           |           |          |  |
| 150,000          | 154  |                                |           |           |           |          |  |
| 1,000,000        | 105  |                                |           |           |           |          |  |
| 4,700,000        | 475  |                                |           |           | 1.60 mm   |          |  |

Standard Thickness

1.15 mm

1.30 mm

1.60 mm



## Capacitance Range Chart

## EIA CC1210 [C3225]

### Capacitance Range Chart

Temperature Characteristics: X7R ( $\pm 15\%$ )

Rated Voltage: 630V (2J), 250V (2E), 100V (2A), 50V (1H), 16V (1C)

| Capacitance (pF) | Code | Tolerance     | X7R       |           |           |          |          |          |
|------------------|------|---------------|-----------|-----------|-----------|----------|----------|----------|
|                  |      |               | 2J (630V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) |
| 47,000           | 473  | K: $\pm 10\%$ | █         |           |           |          |          |          |
| 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  |               |           |           |           | █        |          |          |
| 1,500,000        | 155  |               |           |           |           |          |          | █        |
| 2,200,000        | 225  |               |           |           |           | █        |          |          |
| 3,300,000        | 335  |               |           |           |           |          |          | █        |
| 4,700,000        | 475  |               |           |           |           |          |          | █        |

Standard Thickness

- █ 1.15 mm
- █ 1.60 mm
- █ 2.00 mm
- █ 2.30 mm
- █ 2.50 mm



## Capacitance Range Chart

## EIA CC1812 [C4532]

### Capacitance Range Chart

Temperature Characteristics: X7R ( $\pm 15\%$ )

Rated Voltage: 630V (2J), 250V (2E), 100V (2A), 50V (1H), 25V (1E), 16V (1C)

| Capacitance (pF) | Code | Tolerance     | X7R       |           |           |          |          |          |
|------------------|------|---------------|-----------|-----------|-----------|----------|----------|----------|
|                  |      |               | 2J (630V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) |
| 68,000           | 683  | K: $\pm 10\%$ | █         |           |           |          |          |          |
| 100,000          | 104  |               | █         |           |           |          |          |          |
| 150,000          | 154  |               |           |           |           |          |          |          |
| 220,000          | 224  |               |           |           |           |          |          |          |
| 330,000          | 334  |               |           |           | █         |          |          |          |
| 470,000          | 474  |               |           |           |           | █        |          |          |
| 680,000          | 684  |               |           |           |           |          | █        |          |
| 1,000,000        | 105  |               |           |           |           |          |          | █        |
| 1,500,000        | 155  |               |           |           |           |          |          | █        |
| 3,300,000        | 335  |               |           |           |           |          |          | █        |
| 4,700,000        | 475  |               |           |           |           |          |          | █        |
| 6,800,000        | 685  |               |           |           |           |          |          | █        |
| 10,000,000       | 106  |               |           |           |           |          |          | █        |

Standard Thickness

- █ 1.60 mm
- █ 2.00 mm
- █ 2.30 mm



## Capacitance Range Chart

## EIA CC2220 [C5750]

### Capacitance Range Chart

Temperature Characteristics: X7R ( $\pm 15\%$ )

Rated Voltage: 630V (2J), 250V (2E), 100V (2A), 50V (1H), 25V (1E), 16V (1C)

| Capacitance (pF) | Code | Tolerance                      | X7R          |              |              |             |             |             |
|------------------|------|--------------------------------|--------------|--------------|--------------|-------------|-------------|-------------|
|                  |      |                                | 2J<br>(630V) | 2E<br>(250V) | 2A<br>(100V) | 1H<br>(50V) | 1E<br>(25V) | 1C<br>(16V) |
| 150,000          | 154  | K: $\pm 10\%$<br>M: $\pm 20\%$ | ■            |              |              |             |             |             |
| 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  |                                |              |              |              | ■           |             |             |
| 22,000,000       | 226  |                                |              |              |              |             | ■           |             |

#### Standard Thickness

- 1.60 mm
- 2.00 mm
- 2.30 mm
- 2.80 mm



## 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 | Rated Voltage Edc: 50V |
| 1 nF        | 2012 | 0.85 ± 0.15    | ± 10%                 |                         | C2012X7R2E102K085AM     | C2012X7R2A102K085AM     |                        |
|             | 3216 | 1.15 ± 0.15    | ± 10%                 | C3216X7R2J102K115AM     |                         |                         |                        |
| 1.5 nF      | 2012 | 0.85 ± 0.15    | ± 10%                 |                         | C2012X7R2E152K085AM     | C2012X7R2A152K085AM     |                        |
|             | 3216 | 1.15 ± 0.15    | ± 10%                 | C3216X7R2J152K115AM     |                         |                         |                        |
| 2.2 nF      | 2012 | 0.85 ± 0.15    | ± 10%                 |                         | C2012X7R2E222K085AM     | C2012X7R2A222K085AM     |                        |
|             | 3216 | 1.15 ± 0.15    | ± 10%                 | C3216X7R2J222K115AM     |                         |                         |                        |
| 3.3 nF      | 2012 | 0.85 ± 0.15    | ± 10%                 |                         | C2012X7R2E332K085AM     | C2012X7R2A332K085AM     |                        |
|             | 3216 | 1.15 ± 0.15    | ± 10%                 | C3216X7R2J332K115AM     |                         |                         |                        |
| 4.7 nF      | 2012 | 0.85 ± 0.15    | ± 10%                 |                         | C2012X7R2E472K085AM     | C2012X7R2A472K085AM     |                        |
|             | 3216 | 1.15 ± 0.15    | ± 10%                 | C3216X7R2J472K115AM     |                         |                         |                        |
| 6.8 nF      | 2012 | 0.85 ± 0.15    | ± 10%                 |                         |                         | C2012X7R2A682K085AM     |                        |
|             |      | 1.25 ± 0.20    | ± 10%                 |                         | C2012X7R2E682K125AM     |                         |                        |
|             | 3216 | 1.15 ± 0.15    | ± 10%                 | C3216X7R2J682K115AM     |                         |                         |                        |
| 10 nF       | 2012 | 0.85 ± 0.15    | ± 10%                 |                         |                         | C2012X7R2A103K085AM     |                        |
|             |      | 1.25 ± 0.20    | ± 10%                 |                         | C2012X7R2E103K125AM     |                         |                        |
|             | 3216 | 1.15 ± 0.15    | ± 10%                 | C3216X7R2J103K115AM     |                         |                         |                        |
| 15 nF       | 2012 | 1.25 ± 0.20    | ± 10%                 |                         | C2012X7R2E153K125AM     | C2012X7R2A153K125AM     |                        |
|             |      | 1.15 ± 0.15    | ± 10%                 |                         | C3216X7R2E153K115AM     |                         |                        |
|             | 3216 | 1.30 ± 0.20    | ± 10%                 | C3216X7R2J153K130AM     |                         |                         |                        |
| 22 nF       | 2012 | 1.25 ± 0.20    | ± 10%                 |                         |                         | C2012X7R2A223K125AM     |                        |
|             |      | 1.15 ± 0.15    | ± 10%                 |                         | C3216X7R2E223K115AM     |                         |                        |
|             | 3216 | 1.30 ± 0.20    | ± 10%                 | C3216X7R2J223K130AM     |                         |                         |                        |
| 33 nF       | 3216 | 1.15 ± 0.15    | ± 10%                 |                         |                         | C3216X7R2A333K115AM     |                        |
|             |      | 1.60 ± 0.20    | ± 10%                 | C3216X7R2J333K160AM     | C3216X7R2E333K160AM     |                         |                        |
|             |      | 1.15 ± 0.15    | ± 10%                 |                         |                         | C3216X7R2A473K115AM     |                        |
| 47 nF       | 3216 | 1.60 ± 0.20    | ± 10%                 |                         | C3216X7R2E473K160AM     |                         |                        |
|             |      | 2.00 ± 0.20    | ± 10%                 | C3225X7R2J473K200AM     |                         |                         |                        |
|             |      | 1.60 ± 0.20    | ± 10%                 |                         | C3216X7R2E683K160AM     | C3216X7R2A683K160AM     |                        |
| 68 nF       | 3225 | 2.00 ± 0.20    | ± 10%                 | C3225X7R2J683K200AM     |                         |                         |                        |
|             |      | 1.60 ± 0.20    | ± 10%                 | C4532X7R2J683K160KM     |                         |                         |                        |
|             | 4532 | 1.60 ± 0.20    | ± 10%                 |                         |                         |                         |                        |
| 100 nF      | 2012 | 1.25 ± 0.20    | ± 10%                 |                         |                         |                         | C2012X7R1H104K125AM    |
|             |      | 1.60 ± 0.20    | ± 10%                 |                         | C3216X7R2E104K160AM     | C3216X7R2A104K160AM     |                        |
|             | 3225 | 2.00 ± 0.20    | ± 10%                 |                         | C3225X7R2E104K200AM     |                         |                        |
|             |      | 2.30 ± 0.20    | ± 10%                 | C4532X7R2J104K230KM     |                         |                         |                        |
|             | 3216 | 1.60 ± 0.20    | ± 10%                 |                         |                         | C3216X7R2A154K160AM     |                        |
| 150 nF      | 3225 | 2.00 ± 0.20    | ± 10%                 |                         | C3225X7R2E154K200AM     |                         |                        |
|             |      | 1.60 ± 0.20    | ± 10%                 |                         | C4532X7R2E154K160KM     |                         |                        |
|             | 5750 | 1.60 ± 0.20    | ± 10%                 | C5750X7R2J154K160KM     |                         |                         |                        |
|             |      | 2.00 ± 0.20    | ± 10%                 |                         | C3225X7R2E224K200AM     |                         |                        |
| 220 nF      | 4532 | 2.30 ± 0.20    | ± 10%                 |                         | C4532X7R2E224K230KM     |                         |                        |
|             |      | 2.30 ± 0.20    | ± 10%                 | C5750X7R2J224K230KM     |                         |                         |                        |
|             | 5750 | 2.30 ± 0.20    | ± 10%                 |                         |                         |                         |                        |
| 330 nF      | 3225 | 2.00 ± 0.20    | ± 10%                 |                         |                         | C3225X7R2A334K200AM     |                        |
|             |      | 2.30 ± 0.20    | ± 10%                 |                         | C4532X7R2E334K230KM     |                         |                        |
|             | 5750 | 1.60 ± 0.20    | ± 10%                 |                         | C5750X7R2E334K160KM     |                         |                        |
| 470 nF      | 3225 | 1.60 ± 0.20    | ± 10%                 |                         |                         |                         | C3225X7R1H474K160AM    |
|             |      | 2.30 ± 0.20    | ± 10%                 |                         | C4532X7R2E474K230KM     |                         |                        |
|             | 5750 | 2.30 ± 0.20    | ± 10%                 |                         | C5750X7R2E474K230KM     |                         |                        |
| 680 nF      | 3225 | 2.00 ± 0.20    | ± 10%                 |                         |                         |                         | C3225X7R1H684K200AM    |
|             |      | 2.30 ± 0.20    | ± 10%                 |                         | C4532X7R2A684K230KM     |                         |                        |
|             | 5750 | 1.60 ± 0.20    | ± 10%                 |                         | C5750X7R2A684K160KM     |                         |                        |
|             |      | 2.30 ± 0.20    | ± 10%                 |                         | C5750X7R2E684K230KM     |                         |                        |



## 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: 250V | Rated Voltage Edc: 100V | Rated Voltage Edc: 50V | Rated Voltage Edc: 25V |
| 1 µF        | 3216 | 1.60 ± 0.20    | ± 10%                 |                         | C3216X7R2A105K160AM     |                        |                        |
|             |      | 1.15 ± 0.15    | ± 10%                 |                         |                         |                        | C3225X7R1E105K115AM    |
|             | 3225 | 2.00 ± 0.20    | ± 10%                 |                         | C3225X7R2A105K200AM     |                        |                        |
|             |      | 1.60 ± 0.20    | ± 10%                 |                         |                         | C4532X7R1H105K160KM    |                        |
| 1.5 µF      | 3225 | 2.30 ± 0.20    | ± 10%                 | C5750X7R2E105K230KM     | C5750X7R2A105K230KM     |                        |                        |
|             |      | 1.60 ± 0.20    | ± 10%                 |                         |                         |                        | C3225X7R1E155K160AM    |
|             | 4532 | 2.30 ± 0.20    | ± 10%                 |                         |                         | C4532X7R1H155K230KM    |                        |
|             |      | 2.30 ± 0.20    | ± 10%                 |                         | C5750X7R2A155K230KM     |                        |                        |
| 2.2 µF      | 3225 | 2.00 ± 0.20    | ± 10%                 |                         |                         |                        | C3225X7R1E225K200AM    |
|             |      | 2.30 ± 0.20    | ± 10%                 |                         | C3225X7R2A225K230AM     |                        |                        |
|             | 5750 | 1.60 ± 0.20    | ± 10%                 |                         |                         | C5750X7R1H225K160KM    |                        |

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number          |                        |                        |                        |
|-------------|------|----------------|-----------------------|-------------------------|------------------------|------------------------|------------------------|
|             |      |                |                       | Rated Voltage Edc: 100V | Rated Voltage Edc: 50V | Rated Voltage Edc: 25V | Rated Voltage Edc: 16V |
| 3.3 µF      | 3225 | 2.00 ± 0.20    | ± 10%                 |                         |                        |                        | C3225X7R1C335K200AM    |
|             |      | 1.60 ± 0.20    | ± 10%                 |                         |                        | C4532X7R1E335K160KM    |                        |
|             | 5750 | 2.30 ± 0.20    | ± 10%                 |                         | C5750X7R1H335K230KM    |                        |                        |
| 4.7 µF      | 3216 | 1.60 ± 0.20    | ± 20%                 |                         |                        |                        | C3216X7R1C475M160AM    |
|             |      | 2.50 ± 0.30    | ± 10%                 |                         |                        |                        | C3225X7R1C475K250AM    |
|             | 4532 | 2.00 ± 0.20    | ± 10%                 |                         |                        | C4532X7R1E475K200KM    |                        |
|             |      | 2.80 ± 0.30    | ± 10%                 |                         | C5750X7R1H475K280KM    |                        |                        |
| 6.8 µF      | 4532 | 2.00 ± 0.20    | ± 10%                 |                         |                        |                        | C4532X7R1C685K200KM    |
|             | 5750 | 1.60 ± 0.20    | ± 10%                 |                         |                        | C5750X7R1E685K160KM    |                        |
| 10 µF       | 4532 | 2.30 ± 0.20    | ± 10%                 |                         |                        |                        | C4532X7R1C106K230KM    |
|             | 5750 | 2.00 ± 0.20    | ± 10%                 |                         |                        | C5750X7R1E106K200KM    |                        |
| 15 µF       | 5750 | 2.80 ± 0.30    | ± 20%                 |                         |                        | C5750X7R1E156M280KM    |                        |
| 22 µF       | 5750 | 2.80 ± 0.30    | ± 20%                 |                         |                        |                        | C5750X7R1C226M280KM    |