

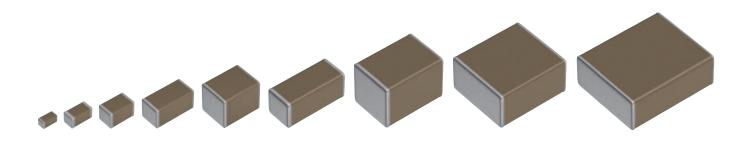


Automotive grade, soft termination

CGA series

| CGA2 | 1005 [0402 inch] |
|------|------------------|
| CGA3 | 1608 [0603 inch] |
| CGA4 | 2012 [0805 inch] |
| CGA5 | 3216 [1206 inch] |
| CGA6 | 3225 [1210 inch] |
| CGA7 | 4520 [1808 inch] |
| CGA8 | 4532 [1812 inch] |
| CGA9 | 5750 [2220 inch] |
| CGAD | 7563 [3025 inch] |
| | |

^{*} Dimensions code: JIS[EIA]





REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.



REMINDERS

1. The products listed on this catalog are intended for use in automotive electronic equipment under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

- 2. We may modify products or discontinue production of a product listed in this catalog without prior notification.
- 3. We provide "Delivery Specification" that explain precautions for the specifications and safety of each product listed in this catalog. We strongly recommend that you exchange these delivery specifications with customers that use one of these products.
- 4. If you plan to export a product listed in this catalog, keep in mind that it may be a restricted item according to the "Foreign Exchange and Foreign Trade Control Law". In such cases, it is necessary to acquire export permission in harmony with this law.
- 5. Any reproduction or transferring of the contents of this catalog is prohibited without prior permission from our company.
- 6. We are not responsible for problems that occur related to the intellectual property rights or other rights of our company or a third party when you use a product listed in this catalog. We do not grant license of these rights.
- 7. This catalog only applies to products purchased through our company or one of our company's official agencies. This catalog does not apply to products that are purchased through other third parties.

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(080AA) | C1608C0G1E103JT000N |
| January 2013 and later | C1608C0G1E103J080AA | C1608C0G1E103JT000N |



CGA series

Soft termination

Type: CGA2/1005 [0402 inch], CGA3/1608 [0603 inch], CGA4/2012 [0805 inch], CGA5/3216 [1206 inch], CGA6/3225 [1210 inch], CGA7/4520 [1808 inch], CGA8/4532 [1812 inch], CGA9/5750 [2220 inch], CGAD/7563 [3025 inch]

RoHS





including conductive resin layer.



SERIES OVERVIEW

TDK multilayer ceramic chip capacitor_Soft termiantion_Automotive grade_CGA series is a product which conductive resin layers are included in terminations. Soft termiantion series has higher mechanical endurance by the flexible resin layers which absorbs thermal and mechanical stress.

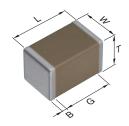
FEATURES

- Higher mechanical endurance is realized by flexible resin layers.
- X8R type which maximum temperature is up to 150°C is applicable.
- COG temperature characteristic which has excellent stable temperature and DC-bias characteristics is applicable.
- AEC-Q200 compliant.

APPLICATIONS

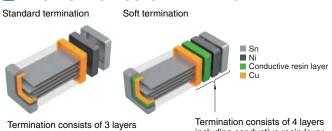
- Fail-safe design in battery line.
- Prevention of ceramic body cracks by board bending.
- Prevention of solder cracks by thermal shock.
- The set having a high probability of fall such as keyless entry and smart-key.

SHAPE & DIMENSIONS



| L | Body length |
|---|------------------|
| W | Body width |
| Т | Body height |
| В | Terminal width |
| G | Terminal spacing |

■ ELECTRODE STRUCTURE DRAWING



Dimensions in mm

by Cu, Ni and Sn.

| Туре | L | W | Т | В | G |
|-----------|-----------------|-----------------|-----------------|-----------|-----------|
| CGA2 | 1.00+0.15,-0.05 | 0.50+0.10,-0.05 | 0.50+0.10,-0.05 | 0.10 min. | 0.30 min. |
| CGA3 | 1.60+0.20,-0.10 | 0.80+0.15,-0.10 | 0.80+0.15,-0.10 | 0.20 min. | 0.30 min. |
| CGA4 | 2.00+0.45,-0.20 | 1.25+0.25,-0.20 | 1.25+0.25,-0.20 | 0.20 min. | 0.50 min. |
| CGA5 | 3.20+0.40,-0.20 | 1.60+0.30,-0.20 | 1.60+0.30,-0.20 | 0.20 min. | 1.00 min. |
| CGA6 | 3.20+0.50,-0.40 | 2.50±0.30 | 2.50±0.30 | 0.20 min. | _ |
| CGA7 | 4.50+0.50,-0.40 | 2.00+0.30,-0.20 | 1.30±0.20 | 0.20 min. | |
| CGA8 | 4.50+0.50,-0.40 | 3.20±0.40 | 2.50±0.30 | 0.20 min. | _ |
| CGA9 | 5.70+0.50,-0.40 | 5.00±0.40 | 2.50±0.30 | 0.20 min. | _ |
| CGAD | 7.50±0.50 | 6.30±0.50 | 2.50 max. | 0.30 min. | _ |
| · Dimonsi | | ! | | | |

^{*}Dimensional tolerances are typical values.



CATALOG NUMBER CONSTRUCTION

| CGA | D | N | 3 | X7R | 1E | 476 | M | 230 | L | E |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |

(1) Series

(2) Dimensions L x W (mm)

| Code | EIA | Length | Width | Terminal width |
|------|--------|--------|-------|----------------|
| 2 | CC0402 | 1.00 | 0.50 | 0.10 |
| 3 | CC0603 | 1.60 | 0.80 | 0.20 |
| 4 | CC0805 | 2.00 | 1.25 | 0.20 |
| 5 | CC1206 | 3.20 | 1.60 | 0.20 |
| 6 | CC1210 | 3.20 | 2.50 | 0.20 |
| 7 | CC1808 | 4.50 | 2.00 | 0.20 |
| 8 | CC1812 | 4.50 | 3.20 | 0.20 |
| 9 | CC2220 | 5.70 | 5.00 | 0.20 |
| D | CC3025 | 7.50 | 6.30 | 0.30 |

(3) Thickness code

| Code | Thickness | |
|------|-----------|--|
| В | 0.50 mm | |
| С | 0.60 mm | |
| E | 0.80 mm | |
| F | 0.85 mm | |
| Н | 1.15 mm | |
| J | 1.25 mm | |
| K | 1.30 mm | |
| L | 1.60 mm | |
| М | 2.00 mm | |
| N | 2.30 mm | |
| Р | 2.50 mm | |
| | | |

(4) Voltage condition for life test

| Symbol | Condition |
|--------|------------|
| 1 | 1 × R.V. |
| 2 | 2 × R.V. |
| 3 | 1.5 × R.V. |
| 4 | 1.2 × R.V. |

(5) Temperature characteristics

| Temperature characteristics | Temperature coefficient or capacitance change | Temperature range |
|-----------------------------|---|-------------------|
| C0G | 0±30 ppm/°C | –55 to +125°C |
| X7R | ±15% | –55 to +125°C |
| X7S | ±22% | –55 to +125°C |
| X7T | +22,-33% | –55 to +125°C |
| X8R | ±15% | –55 to +150°C |

(6) Rated voltage (DC)

| Code | Voltage (DC) |
|------|--------------|
| OJ | 6.3V |
| 1A | 10V |
| 1C | 16V |
| 1E | 25V |
| 1V | 35V |
| 1H | 50V |
| 2A | 100V |
| 2E | 250V |
| 2W | 450V |
| 2J | 630V |
| 3A | 1000V |
| 3D | 2000V |
| 3F | 3000V |
| | |

(7) 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.

(Example)0R5 = 0.5pF 101 = 100pF $225 = 2,200,000pF = 2.2\mu F$

(8) Capacitance tolerance

| Code | Tolerance |
|------|-----------|
| J | ±5% |
| K | ±10% |
| M | ±20% |

(9) Thickness

| (-) | |
|------|-----------|
| Code | Thickness |
| 050 | 0.50 mm |
| 060 | 0.60 mm |
| 080 | 0.80 mm |
| 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 |
| | |

(10) Packaging style

| Code | Style |
|------|------------------------|
| A | 178mm reel, 4mm pitch |
| В | 178mm reel, 2mm pitch |
| K | 178mm reel, 8mm pitch |
| L | 330mm reel, 12mm pitch |

(11) Special reserved code

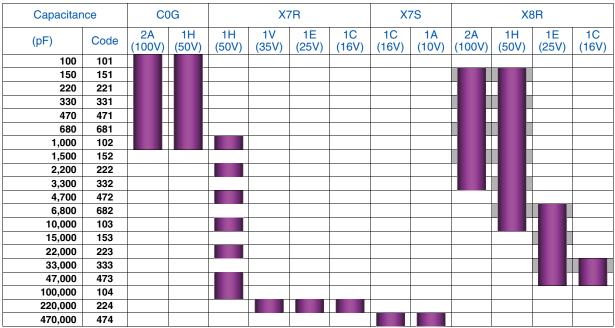
| Code | Description |
|------|------------------|
| E | Soft termination |

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



Capacitance range chart

CGA2/1005 [0402 inch]



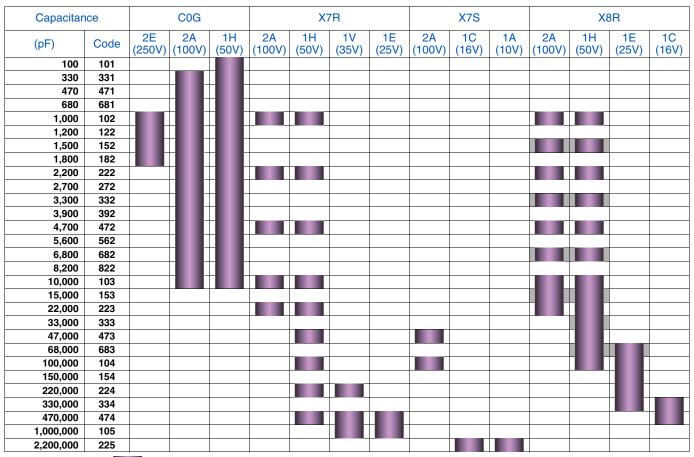
Standard thickness 0.50 mm

Background gray: The product which is not recommended to a new design.

■ Please refer to the capacitance range table at P-11 and after for the details such as product thickness and capacitance tolerance.



CGA3/1608 [0603 inch]



Standard thickness 0.8 mm

Background gray: The product which is not recommended to a new design.

[■] Please refer to the capacitance range table at P-11 and after for the details such as product thickness and capacitance tolerance.



CGA4/2012 [0805 inch]

| Capacita | nce | | C |)G | | | | X | 7R | | | | X7S | |
|------------|------|--------------|--------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|
| (pF) | Code | 2W (450V) | 2E (250V) | 2A (100V) | 1H (50V) | 2E (250V) | 2A (100V) | 1H (50V) | 1V (35V) | 1E (25V) | 1C (16V) | 2A (100V) | 1C (16V) | 1A (10V) |
| 100 | 101 | | | , , , | | | , , , | | , , | , | , , | | | |
| 150 | 151 | | | | | | | | | | | | | |
| 220 | 221 | | | | | | | | | | | | | |
| 330 | 331 | | | | | | | | | | | | | |
| 470 | 471 | | | | | | | | | | | | | |
| 680 | 681 | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| 10,000 | 103 | | | | | | | | | | | | | |
| 15,000 | 153 | | | | | | | | | | | | | |
| 22,000 | 223 | | | | | | | | | | | | | |
| 33,000 | 333 | | | | | | | | | | | | | |
| 47,000 | 473 | | | | | | | | | | | | | |
| 100,000 | 104 | | | | | | | | | | | | | |
| 220,000 | 224 | | | | | | | | | | | | | |
| 470,000 | 474 | | | | | | | | | | | | | |
| 1,000,000 | 105 | | | | | | | | | | | | | |
| 2,200,000 | 225 | | | | | | | | | | | | | |
| 4,700,000 | 475 | | | | | | | | | | | | | |
| 10,000,000 | 106 | | | | | | | | | | | | | |

| Capacitar | nce | X | X7T | | X8R | | |
|-----------------|------|--------------|--------------|--------------|-------------|-------------|-------------|
| (pF) | Code | 2W (450V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) |
| 10,000 | 103 | | | | | | |
| 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 thickn | ess | 0.60 | 0 mm | 0 | .85 mm | | 1.25 m |

Background gray: The product which is not recommended to a new design.

[■] Please refer to the capacitance range table at P-11 and after for the details such as product thickness and capacitance tolerance.



CGA5/3216 [1206 inch]

| Capacita | nce | | | C0G | | | | | | X7R | | | | X7S |
|------------|------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|--------------|
| (pF) | Code | 2J (630V) | 2W (450V) | 2E (250V) | 2A (100V) | 1H (50V) | 2J (630V) | 2E (250V) | 2A (100V) | 1H (50V) | 1V (35V) | 1E (25V) | 0J (6.3V) | 2A (100V) |
| 1,000 | 102 | | | | | | | | | | | | | |
| 2,200 | 222 | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| 220,000 | 224 | | | | | | | | | | | | | |
| 470,000 | 474 | | | | | | | | | | | | | |
| 1,000,000 | 105 | | | | | | | | | | | | | |
| 2,200,000 | 225 | | | | | | | | | | | | | |
| 4,700,000 | 475 | | | | | | | | | | | | | |
| 10,000,000 | 106 | | | | | | | | | | | | | |
| 22,000,000 | 226 | | | | | | | | | | | | | |

| Capacitar | nce | X7T | | | X8R | | | | |
|------------------|------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|---------|
| (pF) | Code | 2J (630V) | 2W (450V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) | |
| 47,000 | 473 | | | | | | | | |
| 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 thickne | ess | 0.85 | 5 mm | 1 | .15 mm | | 1.30 m | ım | 1.60 mm |

Background gray: The product which is not recommended to a new design.

[■] Please refer to the capacitance range table at P-11 and after for the details such as product thickness and capacitance tolerance.



CGA6/3225 [1210 inch]

| Capacitar | ice | | | C0G | | | | X | 7R | | X | 7S | | X7T | |
|------------|------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|-------------|--------------|--------------|--------------|
| (pF) | Code | 3A (1kV) | 2J (630V) | 2W (450V) | 2E (250V) | 2A (100V) | 2J (630V) | 2E (250V) | 2A (100V) | 1H (50V) | 2A (100V) | 1H (50V) | 2J (630V) | 2W (450V) | 2E (250V) |
| 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 | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | |
| 1,000,000 | 105 | | | | | | | | | | | | | | |
| 2,200,000 | 225 | | | | | | | | | | | | | | |
| 3,300,000 | 335 | | | | | | | | | | | | | | |
| 4,700,000 | 475 | | | | | | | | | | | | | | |
| 10,000,000 | 106 | | | | | | | | | | | | | | |

| Capacitar | nce | | X8R | | | | |
|-----------------|------|--------------|-------------|-------------|--------|---------|---------|
| (pF) | Code | 2A (100V) | 1E (25V) | 1C (16V) | | | |
| 470,000 | 474 | | | | | | |
| 680,000 | 684 | | | | | | |
| 3,300,000 | 335 | | | | | | |
| 4,700,000 | 475 | | | | | | |
| 10,000,000 | 106 | | | | | | |
| Standard thickn | ess | 1.60 |) mm | 2 | .00 mm | 2.30 mm | 2.50 mm |

[■] Please refer to the capacitance range table at P-11 and after for the details such as product thickness and capacitance tolerance.



Capacitance range chart

CGA7/4520 [1808 inch]

| Capacitar | Capacitance | | | | | |
|-----------|-------------|-------------|--|--|--|--|
| (pF) | Code | 3D (2kV) | | | | |
| 1,000 | 102 | | | | | |

Standard thickness

1.30 mm

Capacitance range chart

CGA8/4532 [1812 inch]

| Capacitan | се | C |)G | X7R | | | X7T | | | |
|---|------|-------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--|
| (pF) | Code | 3F (3kV) | 2J (630V) | 3D (2kV) | 2J (630V) | 2E (250V) | 2J (630V) | 2W (450V) | 2E (250V) | |
| 330 | 331 | | | | | | | | | |
| 2,200 | 222 | | | | | | | | | |
| 33,000 | 333 | | | | | | | | | |
| 100,000 | 104 | | | | | | | | | |
| 220,000 | 224 | | | | | | | | | |
| 470,000 | 474 | | | | | | | | | |
| 1,000,000 | 105 | | | | | | | | | |
| Standard thickness 1.30 mm 2.00 mm 2.30 r | | | | mm | 2.5 | | | | | |

[■] Please refer to the capacitance range table at P-11 and after for the details such as product thickness and capacitance tolerance.

Capacitance range chart

CGA9/5750 [2220 inch]

| Capacitar | nce | COG | | | X | 7R | X7S | | | |
|------------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| (pF) | Code | 2J (630V) | 2E (250V) | 2A (100V) | 2J (630V) | 2E (250V) | 2A (100V) | 2J (630V) | 2W (450V) | 2E (250V) |
| 68,000 | 683 | | | | | | | | | |
| 150,000 | 154 | | | | | | | | | |
| 220,000 | 224 | | | | | | | | | |
| 470,000 | 474 | | | | | | | | | |
| 1,000,000 | 105 | | | | | | | | | |
| 2,200,000 | 225 | | | | | | | | | |
| 10,000,000 | 106 | | | | | | | | | |

Standard thickness 2.30 mm 2.50 mm

Capacitance range chart

CGAD/7563 [3025 inch]

| Capacitan | се | X7R | | | | |
|------------|-----------|-----|--|--|--|--|
| (pF) | (pF) Code | | | | | |
| 47,000,000 | 476 | | | | | |

Standard thickness

2.30 mm

[■] Please refer to the capacitance range table at P-11 and after for the details such as product thickness and capacitance tolerance.

[■] Please refer to the capacitance range table at P-11 and after for the details such as product thickness and capacitance tolerance.

[■] Please refer to the capacitance range table at P-11 and after for the details such as product thickness and capacitance tolerance.

Mease be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



Capacitance range table Temperature characteristics: C0G (-55 to +125°C, 0±30ppm/°C)

| Capacitance | Dimonoione | Thickness | Capacitance | Catalog number | | | |
|-------------|------------|-----------------|-------------|------------------------|------------------------|-------------------------|-------------------------|
| Сараспапсе | Dimensions | (mm) | tolerance | Rated voltage Edc: 3kV | Rated voltage Edc: 1kV | Rated voltage Edc: 630V | Rated voltage Edc: 450V |
| 100pF | 2012 | 0.60±0.15 | ±5% | | | | CGA4C4C0G2W101J060AE |
| 150pF | 2012 | 0.60±0.15 | ±5% | | | | CGA4C4C0G2W151J060AE |
| 220pF | 2012 | 0.60±0.15 | ±5% | | | | CGA4C4C0G2W221J060AE |
| 000 | 2012 | 0.60±0.15 | ±5% | | | | CGA4C4C0G2W331J060AE |
| 330pF | 4532 | 2.50±0.30 | ±10% | CGA8P1C0G3F331K250KE | | | |
| 470pF | 2012 | 0.60±0.15 | ±5% | | | | CGA4C4C0G2W471J060AE |
| 680pF | 2012 | 0.60±0.15 | ±5% | | | | CGA4C4C0G2W681J060AE |
| 45 | 2012 | 0.60±0.15 | ±5% | | | | CGA4C4C0G2W102J060AE |
| 1nF | 3225 | 2.00+0.30,-0.20 | ±5% | | CGA6M1C0G3A102J200AE | | |
| 4.0-5 | 2012 | 0.60±0.15 | ±5% | | | | CGA4C4C0G2W122J060AE |
| 1.2nF | 3225 | 2.00+0.30,-0.20 | ±5% | | CGA6M1C0G3A122J200AE | | |
| | 2012 | 0.85±0.15 | ±5% | | | | CGA4F4C0G2W152J085AE |
| 1.5nF | 3225 | 2.00+0.30,-0.20 | ±5% | | CGA6M1C0G3A152J200AE | | |
| | 2012 | 0.85±0.15 | ±5% | | | | CGA4F4C0G2W182J085AE |
| 1.8nF | 3225 | 2.00+0.30,-0.20 | ±5% | | CGA6M1C0G3A182J200AE | | |
| 0.0-5 | 2012 | 0.85±0.15 | ±5% | | | | CGA4F4C0G2W222J085AE |
| 2.2nF | 3225 | 2.00+0.30,-0.20 | ±5% | | CGA6M1C0G3A222J200AE | | |
| | 2012 | 1.25+0.25,-0.20 | ±5% | | | | CGA4J4C0G2W272J125AE |
| 2.7nF | 3225 | 2.00+0.30,-0.20 | ±5% | | CGA6M1C0G3A272J200AE | | |
| 0.0-5 | 2012 | 1.25+0.25,-0.20 | ±5% | | | | CGA4J4C0G2W332J125AE |
| 3.3nF | 3225 | 2.00+0.30,-0.20 | ±5% | | CGA6M1C0G3A332J200AE | | |
| | 2012 | 1.25+0.25,-0.20 | ±5% | | | | CGA4J4C0G2W392J125AE |
| 3.9nF | 3216 | 0.85±0.15 | ±5% | | | CGA5F4C0G2J392J085AE | |
| | 3225 | 2.00+0.30,-0.20 | ±5% | | CGA6M1C0G3A392J200AE | | |
| 4.7nF | 3225 | 2.00+0.30,-0.20 | ±5% | | CGA6M1C0G3A472J200AE | | |
| | 3216 | 1.15±0.15 | ±5% | | | CGA5H4C0G2J562J115AE | |
| 5.6nF | 3225 | 2.00+0.30,-0.20 | ±5% | | CGA6M1C0G3A562J200AE | | |
| 0.0-5 | 3216 | 1.15±0.15 | ±5% | | | CGA5H4C0G2J682J115AE | CGA5H4C0G2W682J115AE |
| 6.8nF | 3225 | 2.00+0.30,-0.20 | ±5% | | CGA6M1C0G3A682J200AE | | |
| - | 0040 | 1.15±0.15 | ±5% | | | | CGA5H4C0G2W822J115AE |
| 8.2nF | 3216 | 1.60+0.30,-0.20 | ±5% | | | CGA5L4C0G2J822J160AE | |
| | 3225 | 2.30+0.30,-0.20 | ±5% | | CGA6N1C0G3A822J230AE | | |
| 10nF | 3216 | 1.60+0.30,-0.20 | ±5% | | | CGA5L4C0G2J103J160AE | CGA5L4C0G2W103J160AE |
| 15nF | 3225 | 1.60+0.30,-0.20 | ±5% | | | CGA6L4C0G2J153J160AE | |
| 00-5 | 3225 | 2.50±0.30 | ±5% | | | CGA6P4C0G2J333J250AE | CGA6P4C0G2W333J250AE |
| 33nF | 4532 | 2.00+0.30,-0.20 | ±5% | | | CGA8M4C0G2J333J200KE | |
| 68nF | 5750 | 2.30+0.30,-0.20 | ±5% | | | CGA9N1C0G2J683J230KE | |
| | | | | | | | |

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



Capacitance range table

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

| 0: | Dimensione | Thickness | Capacitance | Catalog number | | | |
|-------------|------------|-----------------|-------------|-------------------------|-------------------------|------------------------|--|
| Capacitance | Dimensions | (mm) | tolerance | Rated voltage Edc: 250V | Rated voltage Edc: 100V | Rated voltage Edc: 50V | |
| 100nE | 1005 | 0.50+0.10,-0.05 | ±5% | | CGA2B2C0G2A101J050BE | CGA2B2C0G1H101J050BE | |
| 100pF | 1608 | 0.80+0.15,-0.10 | ±5% | | | CGA3E2C0G1H101J080AE | |
| 150pF | 1005 | 0.50+0.10,-0.05 | ±5% | | CGA2B2C0G2A151J050BE | CGA2B2C0G1H151J050BE | |
| 220pF | 1005 | 0.50+0.10,-0.05 | ±5% | | CGA2B2C0G2A221J050BE | CGA2B2C0G1H221J050BE | |
| 220-5 | 1005 | 0.50+0.10,-0.05 | ±5% | | CGA2B2C0G2A331J050BE | CGA2B2C0G1H331J050BE | |
| 330pF | 1608 | 0.80+0.15,-0.10 | ±5% | | CGA3E2C0G2A331J080AE | CGA3E2C0G1H331J080AE | |
| 470×F | 1005 | 0.50+0.10,-0.05 | ±5% | | CGA2B2C0G2A471J050BE | CGA2B2C0G1H471J050BE | |
| 470pF | 1608 | 0.80+0.15,-0.10 | ±5% | | CGA3E2C0G2A471J080AE | CGA3E2C0G1H471J080AE | |
| 680pF | 1005 | 0.50+0.10,-0.05 | ±5% | | CGA2B1C0G2A681J050BE | CGA2B2C0G1H681J050BE | |
| оворг | 1608 | 0.80+0.15,-0.10 | ±5% | | CGA3E2C0G2A681J080AE | CGA3E2C0G1H681J080AE | |
| 4 | 1005 | 0.50+0.10,-0.05 | ±5% | | CGA2B1C0G2A102J050BE | CGA2B2C0G1H102J050BE | |
| 1nF | 1608 | 0.80+0.15,-0.10 | ±5% | CGA3E3C0G2E102J080AE | CGA3E2C0G2A102J080AE | CGA3E2C0G1H102J080AE | |
| 1.2nF | 1608 | 0.80+0.15,-0.10 | ±5% | CGA3E3C0G2E122J080AE | CGA3E2C0G2A122J080AE | CGA3E2C0G1H122J080AE | |
| 1.5nF | 1608 | 0.80+0.15,-0.10 | ±5% | CGA3E3C0G2E152J080AE | CGA3E2C0G2A152J080AE | CGA3E2C0G1H152J080AE | |
| 1.8nF | 1608 | 0.80+0.15,-0.10 | ±5% | CGA3E3C0G2E182J080AE | CGA3E2C0G2A182J080AE | CGA3E2C0G1H182J080AE | |
| 2.2nF | 1608 | 0.80+0.15,-0.10 | ±5% | | CGA3E2C0G2A222J080AE | CGA3E2C0G1H222J080AE | |
| 2.7nF | 1608 | 0.80+0.15,-0.10 | ±5% | | CGA3E2C0G2A272J080AE | CGA3E2C0G1H272J080AE | |
| 0.0-5 | 1608 | 0.80+0.15,-0.10 | ±5% | | CGA3E2C0G2A332J080AE | CGA3E2C0G1H332J080AE | |
| 3.3nF | 2012 | 0.85±0.15 | ±5% | CGA4F3C0G2E332J085AE | | | |
| | 1608 | 0.80+0.15,-0.10 | ±5% | | CGA3E1C0G2A392J080AE | CGA3E2C0G1H392J080AE | |
| 3.9nF | 2012 | 1.25+0.25,-0.20 | ±5% | CGA4J3C0G2E392J125AE | | | |
| 4.7 | 1608 | 0.80+0.15,-0.10 | ±5% | | CGA3E1C0G2A472J080AE | CGA3E2C0G1H472J080AE | |
| 4.7nF | 2012 | 1.25+0.25,-0.20 | ±5% | CGA4J3C0G2E472J125AE | | | |
| 5.0-F | 1608 | 0.80+0.15,-0.10 | ±5% | | CGA3E1C0G2A562J080AE | CGA3E2C0G1H562J080AE | |
| 5.6nF | 2012 | 1.25+0.25,-0.20 | ±5% | CGA4J3C0G2E562J125AE | | | |
| 0.0 | 1608 | 0.80+0.15,-0.10 | ±5% | | CGA3E1C0G2A682J080AE | CGA3E2C0G1H682J080AE | |
| 6.8nF | 2012 | 1.25+0.25,-0.20 | ±5% | CGA4J3C0G2E682J125AE | | | |
| 8.2nF | 1608 | 0.80+0.15,-0.10 | ±5% | | CGA3E1C0G2A822J080AE | CGA3E2C0G1H822J080AE | |
| 10 | 1608 | 0.80+0.15,-0.10 | ±5% | | CGA3E1C0G2A103J080AE | CGA3E2C0G1H103J080AE | |
| 10nF | 3216 | 1.15±0.15 | ±5% | CGA5H3C0G2E103J115AE | | | |
| 455 | 2012 | 0.85±0.15 | ±5% | | CGA4F1C0G2A153J085AE | CGA4F2C0G1H153J085AE | |
| 15nF | 3216 | 1.60+0.30,-0.20 | ±5% | CGA5L3C0G2E153J160AE | | | |
| 22nF | 2012 | 1.25+0.25,-0.20 | ±5% | | CGA4J1C0G2A223J125AE | CGA4J2C0G1H223J125AE | |
| 2211F | 3225 | 1.60+0.30,-0.20 | ±5% | CGA6L3C0G2E223J160AE | | | |
| 33nF | 2012 | 1.25+0.25,-0.20 | ±5% | | CGA4J1C0G2A333J125AE | CGA4J2C0G1H333J125AE | |
| 47nF | 3216 | 1.15±0.15 | ±5% | | CGA5H1C0G2A473J115AE | CGA5H2C0G1H473J115AE | |
| C0=F | 3216 | 1.60+0.30,-0.20 | ±5% | | CGA5L1C0G2A683J160AE | CGA5L2C0G1H683J160AE | |
| 68nF | 3225 | 2.30+0.30,-0.20 | ±5% | | CGA6N2C0G2A683J230AE | | |
| 100nF | 3216 | 1.60+0.30,-0.20 | ±5% | | CGA5L1C0G2A104J160AE | CGA5L2C0G1H104J160AE | |
| 150nF | 5750 | 2.30+0.30,-0.20 | ±5% | CGA9N4C0G2E154J230KE | CGA9N2C0G2A154J230KE | | |
| - | | | | | | | |

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



Capacitance range table Temperature characteristics: X7R (-55 to +125°C, ±15%)

| Capacitance | Dimensions | Thickness | Capacitance | Catalog number | | | | | | | |
|-------------|------------|------------------|--------------|----------------------------------|--|-------------------------|--|--|--|--|--|
| | | (mm) | tolerance | Rated voltage Edc: 2kV | Rated voltage Edc: 630V | Rated voltage Edc: 250V | Rated voltage Edc: 100V | Rated voltage Edc: 50V | | | |
| | 1005 | 0.50+0.10,-0.05 | ±10% | | | | | CGA2B2X7R1H102K050BE | | | |
| | | | ±20% | | | | 001050\/7501100\/0015 | CGA2B2X7R1H102M050BE | | | |
| | 1608 | 0.80 +0.15,-0.10 | ±10% | | | | CGA3E2X7R2A102K080AE | CGA3E2X7R1H102K080AE | | | |
| | | | ±20% | | | 00445077505400700545 | CGA3E2X7R2A102M080AE | CGA3E2X7R1H102M080AE | | | |
| 1nF | 2012 | 0.85±0.15 | ±10% | | | CGA4F3X7R2E102K085AE | CGA4F2X7R2A102K085AE | | | | |
| | | | ±20% | | CCAELIAV7D0 H00K11EAE | CGA4F3X7R2E102M085AE | CGA4F2X7R2A102M085AE | | | | |
| | 3216 | 1.15±0.15 | ±10% | | CGA5H4X7R2J102K115AE CGA5H4X7R2J102M115AE | | | | | | |
| | | | ±20% ±10% | CC 47K1 V7D0D100K100KE | CGASH4X/R2J102W115AE | | | | | | |
| | 4520 | 1.30±0.20 | | CGA7K1X7R3D102K130KE | | | | | | | |
| | | | ±20% ±10% | CGA7K1X7R3D102M130KE | | | | CGA2B2X7R1H222K050BB | | | |
| | 1005 | 0.50+0.10,-0.05 | ±10% ±20% | | | | | CGA2B2X7R1H222M050BI | | | |
| | | | | | | | CCA2E2V7B2A222V000AE | | | | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | | | | CGA3E2X7R2A222K080AE CGA3E2X7R2A222M080AE | CGA3E2X7R1H222K080AE CGA3E2X7R1H222M080AI | | | |
| | | | ±20% | | | CC 4 4E9Y7D0E999K99E4E | | CGASEZX/R I TIZZZIVIU OUAL | | | |
| 2.2nF | 2012 | 0.85±0.15 | ±10% | | | CGA4F3X7R2E222K085AE | CGA4F2X7R2A222K085AE | | | | |
| | | | ±20% | | 00 A EL LA VIZ DO 1000 (/ 44 E A E | CGA4F3X7R2E222M085AE | CGA4F2X7R2A222M085AE | | | | |
| | 3216 | 1.15±0.15 | ±10% | | CGA5H4X7R2J222K115AE | | | | | | |
| | | | ±20% | 00 401/4 // 7 Po Po 001/4 001/ F | CGA5H4X7R2J222M115AE | | | | | | |
| | 4532 | 1.30±0.20 | ±10% | CGA8K1X7R3D222K130KE | | | | | | | |
| | | | ±20% | CGA8K1X7R3D222M130KE | 0045114/770010001/44545 | | | | | | |
| 3.3nF | 3216 | 3216 | 3216 | 1.15±0.15 | 1.15±0.15 | ±10% | | CGA5H4X7R2J332K115AE | | | |
| | | | ±20% | | CGA5H4X7R2J332M115AE | | | 004000/7041470/0500 | | | |
| - | 1005 | 0.50+0.10,-0.05 | ±10% | | | | | CGA2B2X7R1H472K050BE | | | |
| | | | ±20% | | | | | CGA2B2X7R1H472M050BB | | | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | | | | CGA3E2X7R2A472K080AE | CGA3E2X7R1H472K080AE | | | |
| 4.7nF | | | ±20% | | | | CGA3E2X7R2A472M080AE | CGA3E2X7R1H472M080AE | | | |
| | | 0.85±0.15 | ±10% | | | CGA4F3X7R2E472K085AE | CGA4F2X7R2A472K085AE | | | | |
| | | | ±20% | | | CGA4F3X7R2E472M085AE | CGA4F2X7R2A472M085AE | | | | |
| | | 1.15±0.15 | ±10% | | CGA5H4X7R2J472K115AE | | | | | | |
| | | | ±20% | | CGA5H4X7R2J472M115AE | | | | | | |
| | 1005 | 0.50+0.10,-0.05 | ±10% | | | | | CGA2B3X7R1H103K050BE | | | |
| | | | ±20% | | | | | CGA2B3X7R1H103M050BE | | | |
| | 1608 | 0.80 +0.15,-0.10 | ±10% | | | | CGA3E2X7R2A103K080AE | CGA3E2X7R1H103K080AE | | | |
| | | | ±20% | | | | CGA3E2X7R2A103M080AE | CGA3E2X7R1H103M080AE | | | |
| 10nF | | 0.85±0.15 | ±10% | | | | CGA4F2X7R2A103K085AE | | | | |
| | 2012 | | ±20% | | | | CGA4F2X7R2A103M085AE | | | | |
| | 2012 | 1.25 +0.25,-0.20 | ±10% | | | CGA4J3X7R2E103K125AE | | | | | |
| | | | ±20% | | | CGA4J3X7R2E103M125AE | | | | | |
| | 3216 | 1.15±0.15 | ±10% | | CGA5H4X7R2J103K115AE | | | | | | |
| | | | ±20% | | CGA5H4X7R2J103M115AE | | | | | | |
| | 1005 | 0.50+0.10,-0.05 | ±10% | | | | | CGA2B3X7R1H223K050BE | | | |
| | | | ±20% | | | | | CGA2B3X7R1H223M050BE | | | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | | | | CGA3E2X7R2A223K080AE | CGA3E2X7R1H223K080AE | | | |
| | . 500 | | ±20% | | | | CGA3E2X7R2A223M080AE | CGA3E2X7R1H223M080AE | | | |
| 22nF | 2012 | 1.25 +0.25,-0.20 | ±10% | | | CGA4J3X7R2E223K125AE | CGA4J2X7R2A223K125AE | | | | |
| | | | ±20% | | | CGA4J3X7R2E223M125AE | CGA4J2X7R2A223M125AE | | | | |
| | | 1.15±0.15 | ±10% | | | CGA5H3X7R2E223K115AE | | | | | |
| | 3216 | 1.10±0.10 | ±20% | | | CGA5H3X7R2E223M115AE | | | | | |
| | 02 TO | 1.30±0.20 | ±10% | | CGA5K4X7R2J223K130AE | | | | | | |
| | | 1.00±0.20 | ±20% | | CGA5K4X7R2J223M130AE | | | | | | |
| 33nF | 3216 | 1.60+0.30,-0.20 | ±10% | | CGA5L4X7R2J333K160AE | | | | | | |
| JJIII | 3210 | 1.00+0.50,-0.20 | ±20% | | CGA5L4X7R2J333M160AE | | | | | | |

[■] Gray item: The product which is not recommended to a new design.



Capacitance range table Temperature characteristics: X7R (-55 to +125°C, ±15%)

| Capacitance | Dimensions | Thickness (mm) | Capacitance tolerance | Catalog number Rated voltage Edc: 630V | Rated voltage Edc: 250V | Rated voltage Edc: 100V | Rated voltage Edc: 50V | |
|-------------|------------|-----------------|-----------------------|--|-------------------------|--|--|----------------------|
| | | (/ | +10% | rialed vehage Eder coor | rated totage Edel Edet | Hatou Foliago Edo. 1001 | CGA2B3X7R1H473K050BE | |
| - | 1005 | 0.50+0.10,-0.05 | ±20% | | | | CGA2B3X7R1H473M050BE | |
| | | | ±10% | | | | CGA3E2X7R1H473K080AE | |
| | 1608 | 0.80+0.15,-0.10 | ±20% | | | | CGA3E2X7R1H473M080AE | |
| 47- 5 | 0010 | 4.05.0.05.0.00 | ±10% | | | CGA4J2X7R2A473K125AE | | |
| 47nF | 2012 | 1.25+0.25,-0.20 | ±20% | | | CGA4J2X7R2A473M125AE | | |
| | 2010 | | ±10% | | CGA5L3X7R2E473K160AE | | | |
| | 3216 | 1.60+0.30,-0.20 | ±20% | | CGA5L3X7R2E473M160AE | | | |
| | 0005 | 0.00.0.00.0.00 | ±10% | CGA6M4X7R2J473K200AE | | | | |
| | 3225 | 2.00+0.30,-0.20 | ±20% | CGA6M4X7R2J473M200AE | | | | |
| 68nF | 3225 | 2.00+0.30,-0.20 | ±10% | CGA6M4X7R2J683K200AE | | | | |
| OOH | 3225 | 2.00+0.30,-0.20 | ±20% | CGA6M4X7R2J683M200AE | | | | |
| | 1005 | 0.50+0.10,-0.05 | ±10% | | | | CGA2B3X7R1H104K050BE | |
| | 1003 | 0.30+0.10,-0.03 | ±20% | | | | CGA2B3X7R1H104M050BE | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | | | | CGA3E2X7R1H104K080AE | |
| | 1000 | 0.80+0.15,-0.10 | ±20% | | | | CGA3E2X7R1H104M080AE | |
| | 2012 | 1.25+0.25,-0.20 | ±10% | | | CGA4J2X7R2A104K125AE | CGA4J2X7R1H104K125AE | |
| 100nF | 2012 | 1.25+0.25,-0.20 | ±20% | | | CGA4J2X7R2A104M125AE | CGA4J2X7R1H104M125AE | |
| 100111 | 3216 | 1.60+0.30,-0.20 | ±10% | | CGA5L3X7R2E104K160AE | CGA5L2X7R2A104K160AE | | |
| | 3210 | 1.00+0.30,-0.20 | ±20% | | CGA5L3X7R2E104M160AE | CGA5L2X7R2A104M160AE | | |
| | 3225 | 2.00+0.30,-0.20 | ±10% | | CGA6M3X7R2E104K200AE | | | |
| | | ٥٤٤٥ | 2.00+0.00,-0.20 | ±20% | | CGA6M3X7R2E104M200AE | | |
| | 4532 | 4532 | 2.30+0.30,-0.20 | ±10% | CGA8N4X7R2J104K230KE | | | |
| | | 2.00+0.00,-0.20 | ±20% | CGA8N4X7R2J104M230KE | | | | |
| | 2012 | 1608 | 0.80+0.15,-0.10 | ±10% | | | | CGA3E3X7R1H224K080AE |
| | | 0.00+0.13,-0.10 | ±20% | | | | CGA3E3X7R1H224M080AE | |
| | | 1.25+0.25,-0.20 | ±10% | | | | CGA4J2X7R1H224K125AE | |
| | | | ±20% | | | | CGA4J2X7R1H224M125AE | |
| 220nF | | 1.15±0.15 | ±10% | | | CGA5H2X7R2A224K115AE | | |
| LLOIII | | 1.10±0.10 | ±20% | | | CGA5H2X7R2A224M115AE | | |
| | 3225 | 2.00+0.30,-0.20 | ±10% | | CGA6M3X7R2E224K200AE | | | |
| | | 2.00+0.00,-0.20 | ±20% | | CGA6M3X7R2E224M200AE | | | |
| | | 2.30+0.30,-0.20 | ±10% | CGA9N4X7R2J224K230KE | | | | |
| | 0.00 | 2.0010.00, 0.20 | ±20% | CGA9N4X7R2J224M230KE | | | | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | | | | CGA3E3X7R1H474K080AE | |
| | | 1.25+0.25,-0.20 | ±20% | | | | CGA3E3X7R1H474M080AE | |
| | 2012 | | ±10% | | | | CGA4J3X7R1H474K125AE | |
| | | | ±20% | | | | CGA4J3X7R1H474M125AE | |
| 470nF | 3216 | 1.60+0.30,-0.20 | ±10% | | | CGA5L2X7R2A474K160AE | | |
| | | | ±20% | | | CGA5L2X7R2A474M160AE | | |
| | 3225 | 2.00+0.30,-0.20 | ±10% | | | CGA6M2X7R2A474K200AE | | |
| | | | ±20% | | | CGA6M2X7R2A474M200AE | | |
| | 4532 | 2.30+0.30,-0.20 | ±10% | | CGA8N3X7R2E474K230KE | | | |
| | | • | ±20% | | CGA8N3X7R2E474M230KE | | 004410/70411405144051 | |
| | 2012 | 1.25+0.25,-0.20 | ±10% | | | | CGA4J3X7R1H105K125AE | |
| | | | ±20% | | | COAEL 0V7D044051/40045 | CGA4J3X7R1H105M125AE | |
| | 3216 | 1.60+0.30,-0.20 | ±10% | | | CGA5L2X7R2A105K160AE | CGA5L3X7R1H105K160AE | |
| | | - | ±20% | | | CGA5L2X7R2A105M160AE | CGASL3X7R1H105M160AE | |
| 1µF | | 1.60+0.30,-0.20 | ±10% | | | | CGA6L2X7R1H105K160AE | |
| | 3225 | - | ±20% | | | CCACMOV7D0A40EK000AE | CGA6L2X7R1H105M160AE | |
| | | 2.00+0.30,-0.20 | ±10% | | | CGA6M2X7R2A105K200AE | | |
| | | | ±20% | | OC AONOVZDOE LOCIZOCOZE | CGA6M2X7R2A105M200AE | | |
| | 5750 | 2.30+0.30,-0.20 | ±10% | | CGA9N3X7R2E105K230KE | | | |
| | | | ±20% | | CGA9N3X7R2E105M230KE | | CCA4 I2V7D41 I005I/405 AF | |
| | 2012 | 1.25+0.25,-0.20 | ±10% | | | | CGA4J3X7R1H225K125AE CGA4J3X7R1H225M125AE | |
| | | | ±20% | | | | | |
| | 3216 | 1.60+0.30,-0.20 | ±10% | | | | CGA5L3X7R1H225K160AE | |
| 2.2µF | | | ±20% | | | | CGASL3X7R1H225M160AE | |
| | | 2.00+0.30,-0.20 | ±10% | | | | CGA6M3X7R1H225K200AE | |
| | 3225 | | ±20% | | | CCA6NQV7DQAQQEVQQQAF | CGA6M3X7R1H225M200AE | |
| | | 2.30+0.30,-0.20 | ±10% ±20% | | | CGA6N3X7R2A225K230AE CGA6N3X7R2A225M230AE | | |
| | | | | | | OGMUNOA/ NZAZZOWIZOUAE | CGAEL SYZD1UAZEV160AF | |
| 4.7µF | 3216 | 1.60+0.30,-0.20 | ±10% ±20% | | | | CGA5L3X7R1H475K160AE CGA5L3X7R1H475M160AE | |
| | | | ±∠U //0 | | | | OGAJLOA/ INTITITIOUAE | |

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



Capacitance range table Temperature characteristics: X7R (-55 to +125°C, ±15%)

| Capacitance | Dimensions | Thickness (mm) | Capacitance tolerance | Catalog number Rated voltage Edc: 35V | Rated voltage Edc: 25V | Rated voltage Edc: 16V | Rated voltage Edc: 6.3V | |
|-------------|------------|-----------------|-----------------------|---------------------------------------|------------------------|------------------------|-------------------------|--|
| | 1005 | 0.50.0.10.0.05 | ±10% | CGA2B1X7R1V224K050BE | CGA2B3X7R1E224K050BE | CGA2B2X7R1C224K050BE | | |
| 000-5 | 1005 | 0.50+0.10,-0.05 | ±20% | CGA2B1X7R1V224M050BE | CGA2B3X7R1E224M050BE | CGA2B2X7R1C224M050BE | | |
| 220nF | 1608 | 0.80+0.15,-0.10 | ±10% | CGA3E3X7R1V224K080AE | | | | |
| | 1608 | 0.80+0.15,-0.10 | ±20% | CGA3E3X7R1V224M080AE | | | | |
| 470nF | 1608 | 0.80+0.15,-0.10 | ±10% | CGA3E1X7R1V474K080AE | CGA3E3X7R1E474K080AE | | | |
| 470HF | 1000 | 0.60+0.15,-0.10 | ±20% | CGA3E1X7R1V474M080AE | CGA3E3X7R1E474M080AE | | | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | CGA3E1X7R1V105K080AE | CGA3E1X7R1E105K080AE | | | |
| 1µF | 1008 | 0.60+0.15,-0.10 | ±20% | CGA3E1X7R1V105M080AE | CGA3E1X7R1E105M080AE | | | |
| iμr | 2012 | 1.25+0.25,-0.20 | ±10% | CGA4J3X7R1V105K125AE | | | | |
| | | 1.25+0.25,-0.20 | ±20% | CGA4J3X7R1V105M125AE | | | | |
| | 2012 | 2012 | 1.25+0.25,-0.20 | ±10% | CGA4J1X7R1V225K125AE | CGA4J3X7R1E225K125AE | | |
| 2.2µF | | 1.23+0.23,-0.20 | ±20% | CGA4J1X7R1V225M125AE | CGA4J3X7R1E225M125AE | | | |
| 2.2μΓ | 3216 | 1.60+0.30,-0.20 | ±10% | CGA5L3X7R1V225K160AE | CGA5L2X7R1E225K160AE | | | |
| | 3210 | 1.60+0.30,-0.20 | ±20% | CGA5L3X7R1V225M160AE | CGA5L2X7R1E225M160AE | | | |
| | 2012 | 1.25+0.25,-0.20 | ±10% | CGA4J1X7R1V475K125AE | CGA4J1X7R1E475K125AE | CGA4J3X7R1C475K125AE | | |
| 4.7µF | 2012 | 2012 | 1.25+0.25,-0.20 | ±20% | CGA4J1X7R1V475M125AE | CGA4J1X7R1E475M125AE | CGA4J3X7R1C475M125AE | |
| 4.7μΓ | 3216 | 1.60+0.30,-0.20 | ±10% | CGA5L1X7R1V475K160AE | | | | |
| | 3210 | 1.60+0.30,-0.20 | ±20% | CGA5L1X7R1V475M160AE | | | | |
| 10µF | 3216 | 1.60+0.30,-0.20 | ±10% | CGA5L1X7R1V106K160AE | CGA5L1X7R1E106K160AE | | | |
| τυμε | 3210 | 1.00+0.30,-0.20 | ±20% | CGA5L1X7R1V106M160AE | CGA5L1X7R1E106M160AE | | | |
| 22µF | 3216 | 1.60+0.30,-0.20 | ±20% | | | | CGA5L1X7R0J226M160AE | |
| 47nF | 7563 | 2.30 (2.50max.) | ±20% | | CGADN3X7R1E476M230LE | | · | |

Capacitance range table Temperature characteristics: X7S (-55 to +125°C, ±22%)

| Consoitones | Dimensions | Thickness | Capacitance | Catalog number | | | |
|-------------|--------------|-----------------|-------------|-------------------------|------------------------|------------------------|------------------------|
| Capacitance | Dimensions | (mm) | tolerance | Rated voltage Edc: 100V | Rated voltage Edc: 50V | Rated voltage Edc: 16V | Rated voltage Edc: 10V |
| 47nF | 1608 | 0.00.0.15.0.10 | ±10% | CGA3E3X7S2A473K080AE | | | |
| 4/IIF | 1608 | 0.80+0.15,-0.10 | ±20% | CGA3E3X7S2A473M080AE | | | |
| 100nF | 1608 | 0.80+0.15,-0.10 | ±10% | CGA3E3X7S2A104K080AE | | | |
| TOUTE | 1608 | 0.80+0.15,-0.10 | ±20% | CGA3E3X7S2A104M080AE | | | |
| 220nF | 2012 | 0.85±0.15 | ±10% | CGA4F3X7S2A224K085AE | | | |
| 22011 | 2012 | 0.00±0.10 | ±20% | CGA4F3X7S2A224M085AE | | | |
| | 1005 | 0.50+0.10,-0.05 | ±10% | | | CGA2B1X7S1C474K050BE | CGA2B3X7S1A474K050BE |
| 470nF - | 1005 | 0.50+0.10,-0.05 | ±20% | | | CGA2B1X7S1C474M050BE | CGA2B3X7S1A474M050BE |
| 470NF | 2012 | 1.25+0.25,-0.20 | ±10% | CGA4J3X7S2A474K125AE | | | |
| | 2012 | 1.25+0.25,-0.20 | ±20% | CGA4J3X7S2A474M125AE | | | |
| 1µF | 1µF 2012 | 1.25+0.25,-0.20 | ±10% | CGA4J3X7S2A105K125AE | | | |
| - μι | 2012 | 1.25+0.25,-0.20 | ±20% | CGA4J3X7S2A105M125AE | | | |
| | 1608 3216 | 0.80+0.15,-0.10 | ±10% | | | CGA3E1X7S1C225K080AE | CGA3E3X7S1A225K080AE |
| 2.2µF - | | 0.00+0.15,-0.10 | ±20% | | | CGA3E1X7S1C225M080AE | CGA3E3X7S1A225M080AE |
| 2.2μι | | 1.60+0.30,-0.20 | ±10% | CGA5L3X7S2A225K160AE | | | |
| | | 1.00+0.00,-0.20 | ±20% | CGA5L3X7S2A225M160AE | | | |
| 3.3µF | 3225 | 2.00+0.30,-0.20 | ±10% | CGA6M3X7S2A335K200AE | | | |
| σ.σμι | 3223 | 2.00+0.00,-0.20 | ±20% | CGA6M3X7S2A335M200AE | | | |
| | | 2.00+0.30,-0.20 | ±10% | CGA6M3X7S2A475K200AE | | | |
| 4.7µF | 3225 | 2.00+0.30,-0.20 | ±20% | CGA6M3X7S2A475M200AE | | | |
| 4.7 μι | 3223 | 2.30+0.30,-0.20 | ±10% | | CGA6N3X7S1H475K230AE | | |
| | | 2.00+0.00,-0.20 | ±20% | | CGA6N3X7S1H475M230AE | | |
| | 2012 | 1.25+0.25,-0.20 | ±10% | | | CGA4J1X7S1C106K125AE | CGA4J3X7S1A106K125AE |
| _ | 2012 | 1.25+0.25,-0.20 | ±20% | | | CGA4J1X7S1C106M125AE | CGA4J3X7S1A106M125AE |
| 10µF | 3225 | 2.50±0.30 | ±10% | | CGA6P3X7S1H106K250AE | | |
| ·ομι | 5225 | 2.50±0.50 | ±20% | | CGA6P3X7S1H106M250AE | | |
| | 5750 | 2.30+0.30,-0.20 | ±10% | CGA9N3X7S2A106K230KE | | | |
| - | 3730 | 2.30+0.30,-0.20 | ±20% | CGA9N3X7S2A106M230KE | | | |

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



Capacitance range table Temperature characteristics: X7T (-55 to +125°C, +22, -33%)

| Capacitance Dimension | | Thickness | Capacitance | Catalog number | | |
|-----------------------|--------------|-----------------|-------------|-------------------------|-------------------------|-------------------------|
| Сараспансе | Difficitions | (mm) | tolerance | Rated voltage Edc: 630V | Rated voltage Edc: 450V | Rated voltage Edc: 250V |
| 10 nF | 2012 | 0.85±0.15 | ± 10% | | CGA4F4X7T2W103K085AE | |
| 1011F | 2012 | 0.65±0.15 | ± 20% | | CGA4F4X7T2W103M085AE | |
| 22 nF | 2012 | 1.25+0.25,-0.20 | ± 10% | | CGA4J4X7T2W223K125AE | |
| 22 115 | 2012 | 1.25+0.25,-0.20 | ± 20% | | CGA4J4X7T2W223M125AE | |
| | 2012 | 1.25+0.25,-0.20 | ± 10% | | CGA4J4X7T2W473K125AE | CGA4J3X7T2E473K125AE |
| 47 nF | 2012 | 1.25+0.25,-0.20 | ± 20% | | CGA4J4X7T2W473M125AE | CGA4J3X7T2E473M125AE |
| 47 111 | 3216 | 1.60+0.30,-0.20 | ± 10% | CGA5L1X7T2J473K160AE | | |
| | 3210 | 1.60+0.30,-0.20 | ± 20% | CGA5L1X7T2J473M160AE | | |
| | 2012 | 1.25+0.25,-0.20 | ± 10% | | | CGA4J3X7T2E104K125AE |
| | 2012 | 1.25+0.25,-0.20 | ± 20% | | | CGA4J3X7T2E104M125AE |
| 100 nF | 3216 | 1.60+0.30,-0.20 | ± 10% | | CGA5L4X7T2W104K160AE | |
| 100 111 | 3216 | 1.00+0.30,-0.20 | ± 20% | | CGA5L4X7T2W104M160AE | |
| | 3225 | 1.60+0.30,-0.20 | ± 10% | CGA6L1X7T2J104K160AE | | |
| | | 1.60+0.30,-0.20 | ± 20% | CGA6L1X7T2J104M160AE | | |
| 150nF | 3225 | 2.00+0.30,-0.20 | ±10% | CGA6M1X7T2J154K200AE | | |
| 13011 | 3223 | 2.00+0.30,-0.20 | ±20% | CGA6M1X7T2J154M200AE | | |
| | 3216 | 1.60+0.30,-0.20 | ± 10% | | | CGA5L3X7T2E224K160AE |
| | | | ± 20% | | | CGA5L3X7T2E224M160AE |
| 220 nF | 3225 | 2.00+0.30,-0.20 | ± 10% | | CGA6M4X7T2W224K200AE | |
| 220 HF | | | ± 20% | | CGA6M4X7T2W224M200AE | |
| | 4500 | 2.00+0.30,-0.20 | ± 10% | CGA8M1X7T2J224K200KE | | |
| | 4532 | | ± 20% | CGA8M1X7T2J224M200KE | | |
| 330nF | 3225 | 2.00+0.30,-0.20 | ±10% | | | CGA6M3X7T2E334K200AE |
| 33011 | 3223 | 2.00+0.30,-0.20 | ±20% | | | CGA6M3X7T2E334M200AE |
| | 4532 | 2.30+0.30,-0.20 | ± 10% | | CGA8N4X7T2W474K230KE | |
| 470 nF | 4532 | 2.30+0.30,-0.20 | ± 20% | | CGA8N4X7T2W474M230KE | |
| 470 IIF | 5750 | 2.50±0.30 | ± 10% | CGA9P1X7T2J474K250KE | | |
| | 5750 | 2.50±0.50 | ± 20% | CGA9P1X7T2J474M250KE | | |
| | 4532 | 2.50±0.30 | ± 10% | | | CGA8P3X7T2E105K250KE |
| 1= | 4002 | 2.30±0.30 | ± 20% | | | CGA8P3X7T2E105M250KE |
| 1 μF | 5750 | 2.50±0.30 | ± 10% | | CGA9P4X7T2W105K250KE | |
| | 5/50 | 2.00±0.30 | ± 20% | | CGA9P4X7T2W105M250KE | |
| 2.2 uF | E7E0 | 2.50.0.20 | ± 10% | | | CGA9P3X7T2E225K250KE |
| 2.2 UF | 5750 | 2.50±0.30 | ± 20% | | | CGA9P3X7T2E225M250KE |

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



Capacitance range table

Temperature characteristics: X8R (-55 to +150°C, ±15%)

| Canacitanaa | Dimensions | Thickness | Capacitance | Catalog number | | | |
|-------------|------------|-----------------|--------------|--|--|------------------------|------------------------|
| Capacitance | Dimensions | (mm) | tolerance | Rated voltage Edc: 100V | Rated voltage Edc: 50V | Rated voltage Edc: 25V | Rated voltage Edc: 16V |
| 150pE | 1005 | 0.50+0.10,-0.05 | ±10% | CGA2B2X8R2A151K050BE | CGA2B2X8R1H151K050BE | | |
| 150pF | 1005 | 0.50+0.10,-0.05 | ±20% | CGA2B2X8R2A151M050BE | CGA2B2X8R1H151M050BE | | |
| 220nE | 1005 | 0.50.0.10.0.05 | ±10% | CGA2B2X8R2A221K050BE | CGA2B2X8R1H221K050BE | | |
| 220pF | 1005 | 0.50+0.10,-0.05 | ±20% | CGA2B2X8R2A221M050BE | CGA2B2X8R1H221M050BE | | |
| 330pF | 1005 | 0.50+0.10,-0.05 | ±10% | CGA2B2X8R2A331K050BE | CGA2B2X8R1H331K050BE | | |
| ЗЗОРІ | 1005 | 0.50+0.10,-0.05 | ±20% | CGA2B2X8R2A331M050BE | CGA2B2X8R1H331M050BE | | |
| 470pF | 1005 | 0.50+0.10,-0.05 | ±10% | CGA2B2X8R2A471K050BE | CGA2B2X8R1H471K050BE | | |
| 47 Opi | 1005 | 0.50+0.10,-0.05 | ±20% | CGA2B2X8R2A471M050BE | CGA2B2X8R1H471M050BE | | |
| 680pF | 1005 | 0.50+0.10,-0.05 | ±10% | CGA2B2X8R2A681K050BE | CGA2B2X8R1H681K050BE | | |
| | 1000 | 0.0010.10, 0.00 | ±20% | CGA2B2X8R2A681M050BE | CGA2B2X8R1H681M050BE | | |
| | 1005 | 0.50+0.10,-0.05 | ±10% | CGA2B2X8R2A102K050BE | CGA2B2X8R1H102K050BE | | |
| 1nF | | 0.001010, 0.00 | ±20% | CGA2B2X8R2A102M050BE | CGA2B2X8R1H102M050BE | | |
| •••• | 1608 | 0.80+0.15,-0.10 | ±10% | CGA3E2X8R2A102K080AE | CGA3E2X8R1H102K080AE | | |
| | | | ±20% | CGA3E2X8R2A102M080AE | CGA3E2X8R1H102M080AE | | |
| | 1005 | 0.50+0.10,-0.05 | ±10% | CGA2B2X8R2A152K050BE | CGA2B2X8R1H152K050BE | | |
| 1.5nF | | 0.0010110, 0.00 | ±20% | CGA2B2X8R2A152M050BE | CGA2B2X8R1H152M050BE | | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | CGA3E2X8R2A152K080AE | CGA3E2X8R1H152K080AE | | |
| | | | ±20% | CGA3E2X8R2A152M080AE | CGA3E2X8R1H152M080AE | | |
| | 1005 | 0.50+0.10,-0.05 | ±10% | CGA2B2X8R2A222K050BE | CGA2B2X8R1H222K050BE | | |
| 2.2nF | | | ±20% | CGA2B2X8R2A222M050BE | CGA2B2X8R1H222M050BE | | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | CGA3E2X8R2A222K080AE | CGA3E2X8R1H222K080AE | | |
| | | | ±20% | CGA3E2X8R2A222M080AE | CGA3E2X8R1H222M080AE | | |
| | 1005 | 0.50+0.10,-0.05 | ±10% | CGA2B3X8R2A332K050BE | CGA2B2X8R1H332K050BE | | |
| 3.3nF | | | ±20% | CGA2B3X8R2A332M050BE | CGA2B2X8R1H332M050BE | | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | CGA3E2X8R2A332K080AE | CGA3E2X8R1H332K080AE | | |
| | | | ±20% | CGA3E2X8R2A332M080AE | CGA3E2X8R1H332M080AE | | |
| | 1005 | 0.50+0.10,-0.05 | ±10% | | CGA2B2X8R1H472K050BE | | |
| 4.7nF — | | | ±20% | CC 42E2V9B24472K0904E | CGA2B2X8R1H472M050BE | | |
| | 1608 | 0.80+0.15,-0.10 | ±10% ±20% | CGA3E2X8R2A472K080AE CGA3E2X8R2A472M080AE | CGA3E2X8R1H472K080AE | | |
| | | | ±20% | CGASEZAGNZA47ZIVIOOUAE | CGA3E2X8R1H472M080AE CGA2B3X8R1H682K050BE | CGA2B2X8R1E682K050BE | |
| | 1005 | 0.50+0.10,-0.05 | ±10% | | CGA2B3X8R1H682M050BE | CGA2B2X8R1E682M050BE | |
| 6.8nF | | | ±20% | CGA3E2X8R2A682K080AE | CGA3E2X8R1H682K080AE | CGAZBZX0TTE00ZW030BE | |
| | 1608 | 0.80+0.15,-0.10 | ±20% | CGA3E2X8R2A682M080AE | CGA3E2X8R1H682M080AE | | |
| | | | ±10% | Carroller (Collinocorte | CGA2B3X8R1H103K050BE | CGA2B2X8R1E103K050BE | |
| | 1005 | 0.50+0.10,-0.05 | ±20% | | CGA2B3X8R1H103M050BE | CGA2B2X8R1E103M050BE | |
| 10nF | | | ±10% | CGA3E2X8R2A103K080AE | CGA3E2X8R1H103K080AE | | |
| | 1608 | 0.80+0.15,-0.10 | ±20% | CGA3E2X8R2A103M080AE | CGA3E2X8R1H103M080AE | | |
| | | | ±10% | | | CGA2B3X8R1E153K050BE | |
| | 1005 | 0.50+0.10,-0.05 | ±20% | | | CGA2B3X8R1E153M050BE | |
| 15nF | | | ±10% | CGA3E2X8R2A153K080AE | CGA3E2X8R1H153K080AE | | |
| | 1608 | 0.80+0.15,-0.10 | ±20% | CGA3E2X8R2A153M080AE | CGA3E2X8R1H153M080AE | | |
| | 4005 | 0.50.040.005 | ±10% | | | CGA2B3X8R1E223K050BE | |
| | 1005 | 0.50+0.10,-0.05 | ±20% | | | CGA2B3X8R1E223M050BE | |
| 22nE | 1600 | 0.0010.15.0.10 | ±10% | CGA3E3X8R2A223K080AE | CGA3E2X8R1H223K080AE | | |
| 22nF | 1608 | 0.80+0.15,-0.10 | ±20% | CGA3E3X8R2A223M080AE | CGA3E2X8R1H223M080AE | | |
| | 2012 | 1.25+0.25,-0.20 | ±10% | CGA4J2X8R2A223K125AE | | | |
| | 2012 | 1.20+0.20,-0.20 | ±20% | CGA4J2X8R2A223M125AE | | | |
| | 1005 | 0.50+0.10,-0.05 | ±10% | | | CGA2B1X8R1E333K050BE | CGA2B3X8R1C333K050BE |
| | 1000 | 5.5515.10,-0.05 | ±20% | | | CGA2B1X8R1E333M050BE | CGA2B3X8R1C333M050BE |
| 33nF | 1608 | 0.80+0.15,-0.10 | ±10% | | CGA3E2X8R1H333K080AE | | |
| 55/11 | | 2.30.00, 0.10 | ±20% | | CGA3E2X8R1H333M080AE | | |
| | 2012 | 1.25+0.25,-0.20 | ±10% | CGA4J3X8R2A333K125AE | | | |
| | | , | ±20% | CGA4J3X8R2A333M125AE | | | |
| - 47nF | 1005 | 0.50+0.10,-0.05 | ±10% | | | CGA2B1X8R1E473K050BE | CGA2B3X8R1C473K050BE |
| | | | ±20% | | | CGA2B1X8R1E473M050BE | CGA2B3X8R1C473M050BE |
| | 1608 | 0.80+0.15,-0.10 | ±10% | | CGA3E2X8R1H473K080AE | | |
| | | -, | ±20% | 004410/00511======= | CGA3E2X8R1H473M080AE | | |
| | 2012 | 1.25+0.25,-0.20 | ±10% | CGA4J3X8R2A473K125AE | | | |
| | | -, - '* | ±20% | CGA4J3X8R2A473M125AE | 0040501/00::: | 004050//00:====:/=== | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | | CGA3E3X8R1H683K080AE | CGA3E2X8R1E683K080AE | |
| 68nF | | • | ±20% | 00 44 10 70 DC 4 000 1/4 05 1 = | CGA3E3X8R1H683M080AE | CGA3E2X8R1E683M080AE | |
| | 2012 | 1.25+0.25,-0.20 | ±10% | CGA4J3X8R2A683K125AE | CGA4J2X8R1H683K125AE | | |
| | | | ±20% | CGA4J3X8R2A683M125AE | CGA4J2X8R1H683M125AE | | |

 $[\]blacksquare$ Gray item: The product which is not recommended to a new design.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



Capacitance range table Temperature characteristics: X8R (-55 to +150°C, ±15%)

| Capacitance | Dimensions | Thickness | Capacitance | Catalog number | | | | |
|-----------------|--------------|-----------------|-----------------|-------------------------|------------------------|------------------------|---|--|
| - Capacita: icc | 2 | (mm) | tolerance | Rated voltage Edc: 100V | Rated voltage Edc: 50V | Rated voltage Edc: 25V | Rated voltage Edc: 16V | |
| 100nF | 1608 | 1608 | 0.80+0.15,-0.10 | ±10% | | CGA3E3X8R1H104K080AE | CGA3E2X8R1E104K080AE | |
| | | 0.0010.10, 0.10 | ±20% | | CGA3E3X8R1H104M080AE | CGA3E2X8R1E104M080AE | | |
| | 2012 | 1.25+0.25,-0.20 | ±10% | | CGA4J2X8R1H104K125AE | | | |
| | | 112010120, 0120 | ±20% | | CGA4J2X8R1H104M125AE | | | |
| | 3216 | 1.15±0.15 | ±10% | CGA5H2X8R2A104K115AE | | | | |
| | | | ±20% | CGA5H2X8R2A104M115AE | | | | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | | | CGA3E3X8R1E154K080AE | | |
| | | | ±20% | | | CGA3E3X8R1E154M080AE | | |
| | | 0.85±0.15 | ±10% | | | CGA4F2X8R1E154K085AE | | |
| 150nF | 2012 | | ±20% | | | CGA4F2X8R1E154M085AE | | |
| | | 1.25+0.25,-0.20 | ±10% | | CGA4J3X8R1H154K125AE | | | |
| | | | ±20% | | CGA4J3X8R1H154M125AE | | | |
| | 3216 | 1.60+0.30,-0.20 | ±10% | CGA5L2X8R2A154K160AE | | | | |
| | | | ±20% | CGA5L2X8R2A154M160AE | | | | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | | | CGA3E3X8R1E224K080AE | | |
| | | | ±20% | | | CGA3E3X8R1E224M080AE | | |
| 220nF | 2012 | 1.25+0.25,-0.20 | ±10% | | CGA4J3X8R1H224K125AE | CGA4J2X8R1E224K125AE | | |
| | | | ±20% | | CGA4J3X8R1H224M125AE | CGA4J2X8R1E224M125AE | | |
| | 3216 | 1.60+0.30,-0.20 | ±10% | CGA5L3X8R2A224K160AE | | | | |
| | | | ±20% | CGA5L3X8R2A224M160AE | | | | |
| | 1608 | 0.80+0.15,-0.10 | ±10% | | | CGA3E1X8R1E334K080AE | CGA3E3X8R1C334K080AE | |
| | | | ±20% | | | CGA3E1X8R1E334M080AE | CGA3E3X8R1C334M080AE | |
| 330nF | 2012 | 1.25+0.25,-0.20 | ±10% | | | CGA4J2X8R1E334K125AE | | |
| | | | ±20% | | | CGA4J2X8R1E334M125AE | | |
| | 3216 | 1.60+0.30,-0.20 | ±10% | CGA5L3X8R2A334K160AE | CGA5L2X8R1H334K160AE | | | |
| | | | ±20% | CGA5L3X8R2A334M160AE | CGA5L2X8R1H334M160AE | | | |
| | 2012 3216 | 0.80+0.15,-0.10 | ±10% | | | | CGA3E3X8R1C474K080AE | |
| | | | ±20% | | | | CGA3E3X8R1C474M080AE | |
| | | 1.25+0.25,-0.20 | ±10% | | | CGA4J3X8R1E474K125AE | | |
| 470nF | | | ±20% | | | CGA4J3X8R1E474M125AE | | |
| | | 1.60+0.30,-0.20 | ±10% | | CGA5L2X8R1H474K160AE | | | |
| | | | ±20% | | CGA5L2X8R1H474M160AE | | | |
| | | 2.00+0.30,-0.20 | ±10% | CGA6M3X8R2A474K200AE | | | | |
| | 0220 | | ±20% | CGA6M3X8R2A474M200AE | | | | |
| | 2012 | 1.25+0.25,-0.20 | ±10% | | | CGA4J1X8R1E684K125AE | CGA4J3X8R1C684K125AE | |
| | | | ±20% | | | CGA4J1X8R1E684M125AE | CGA4J3X8R1C684M125AE | |
| 680nF | 3216 | 1.60+0.30,-0.20 | ±10% | | CGA5L3X8R1H684K160AE | | | |
| | | | ±20% | | CGA5L3X8R1H684M160AE | | | |
| | 3225 | 2.50±0.30 | ±10% | CGA6P3X8R2A684K250AE | | | | |
| | | | ±20% | CGA6P3X8R2A684M250AE | | | | |
| | 2012 | 1.25+0.25,-0.20 | ±10% | | | CGA4J1X8R1E105K125AE | CGA4J3X8R1C105K125AE | |
| 1µF | | | ±20% | | | CGA4J1X8R1E105M125AE | CGA4J3X8R1C105M125AE | |
| | 3216 | 3216 | 1.60+0.30,-0.20 | ±10% | | CGA5L3X8R1H105K160AE | CGA5L2X8R1E105K160AE | |
| | | | ±20% | | CGA5L3X8R1H105M160AE | CGA5L2X8R1E105M160AE | | |
| 1.5µF | 3216 | 1.60+0.30,-0.20 | ±10% | | | CGA5L3X8R1E155K160AE | | |
| | | | ±20% | | | CGA5L3X8R1E155M160AE | | |
| 2.2µF | 3216 | 1.60+0.30,-0.20 | ±10% | | | CGA5L3X8R1E225K160AE | | |
| - | | | ±20% | | | CGA5L3X8R1E225M160AE | 004510V0D400051/40045 | |
| | 3216 | 1.60+0.30,-0.20 | ±10% | | | CGA5L1X8R1E335K160AE | CGA5L3X8R1C335K160AE | |
| 3.3µF | | • | ±20% | | | CGA5L1X8R1E335M160AE | CGA5L3X8R1C335M160AE | |
| - | 3225 | 2.50±0.30 | ±10% | | | CGA6P2X8R1E335K250AE | | |
| | | | ±20% | | | CGA6P2X8R1E335M250AE | 004510000404751440045 | |
| | 3216 | 1.60+0.30,-0.20 | ±10% | | | CGA5L1X8R1E475K160AE | CGA5L3X8R1C475K160AE | |
| 4.7µF | | | ±20% | | | CGA5L1X8R1E475M160AE | CGA5L3X8R1C475M160AE | |
| • | 3225 | 2.50±0.30 | ±10% | | | CGA6P3X8R1E475K250AE | | |
| | | | ±20% | | | CGA6P3X8R1E475M250AE | 004000000000000000000000000000000000000 | |
| 10μF | 3225 | 2.50±0.30 | ±10% | | | CGA6P1X8R1E106K250AE | CGA6P3X8R1C106K250AE | |
| | | | ±20% | | | CGA6P1X8R1E106M250AE | CGA6P3X8R1C106M250AE | |

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.