

FG26C0G2E223JNT06 Datasheet

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| | |
|------------------------------|---|
| DiGi Electronics Part Number | FG26C0G2E223JNT06-DG |
| Manufacturer | TDK Corporation |
| Manufacturer Product Number | FG26C0G2E223JNT06 |
| Description | CAP CER 0.022UF 250V C0G RADIAL |
| Detailed Description | 0.022 μ F \pm 5% 250V Ceramic Capacitor C0G, NP0 Radial |

This model FG26C0G2E223JNT06 is available at DiGi Electronics.

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Purchase and inquiry

Manufacturer Product Number:

FG26COG2E223JNT06

Series:

FG

Capacitance:0.022 μ F**Voltage - Rated:**

250V

Operating Temperature:

-55°C ~ 125°C

Ratings:

-

Failure Rate:

-

Package / Case:

Radial

Height - Seated (Max):

0.236" (6.00mm)

Lead Spacing:

0.197" (5.00mm)

Manufacturer:

TDK Corporation

Product Status:

Active

Tolerance: \pm 5%**Temperature Coefficient:**

COG, NP0

Features:

-

Applications:

General Purpose

Mounting Type:

Through Hole

Size / Dimension:

0.217" L x 0.138" W (5.50mm x 3.50mm)

Thickness (Max):

-

Lead Style:

Formed Leads - Kinked

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8532.24.0060

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99



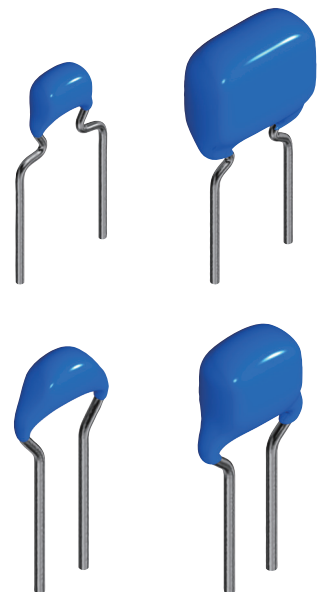
November 2024

MLCC with dipped radial lead

(Halogen-free, commercial grade)

FG series

| | | |
|--------------|-------------------|-------------------|
| Type: | Lead pitch | 5.0 mm |
| | | FG28 [4.0x5.5mm] |
| | | FG24 [4.5x5.5mm] |
| | | FG26 [5.5x6.0mm] |
| | | FG20 [5.5x7.0mm] |
| | | FG22 [7.5x8.5mm] |
| | | FG23 [8.5x11.0mm] |
| | Lead pitch | 2.5 mm |
| | | FG18 [4.0x5.5mm] |
| | | FG14 [4.5x5.5mm] |
| | | FG16 [5.5x6.0mm] |
| | | FG11 [5.5x7.0mm] |



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 general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) 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 | (7) Transportation control equipment |
| (2) Transportation equipment (cars, electric trains, ships, etc.) | (8) Public information-processing equipment |
| (3) Medical equipment (excepting Pharmaceutical Affairs Law classification Class1,2) | (9) Military equipment |
| (4) Power-generation control equipment | (10) Electric heating apparatus, burning equipment |
| (5) Atomic energy-related equipment | (11) Disaster prevention/crime prevention equipment |
| (6) Seabed 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.

MLCC with dipped radial lead

Product compatible with RoHS directive
Halogen-free

Halogen-free, commercial grade

Overview of the FG series

FEATURES

- Voltage rating of 10V to 630V with capacitance range of 1pF to 47μF

APPLICATION

- Noise reduction measures for various motors
- Bypass capacitors and smoothing capacitors for switching power sources, etc.
- Snubber circuits
- PFC input filters

PART NUMBER CONSTRUCTION

| FG | 2 | 8 | COG | 1H | 010 | C | □□□ | □ |
|-------------|-----------------|-----------------------|---|-------------------|--------------------------|-----------------------|---------------|-----------------|
| Series name | Lead pitch (mm) | LxWxT Dimensions (mm) | Capacitance temperature characteristics | Rated voltage (V) | Nominal capacitance (pF) | Capacitance tolerance | Internal code | Packaging style |
| | 1 2.5 | 8 4.0x5.5x2.5 | COG 0±30ppm/°C | 1A 10 | 010 1 | C ±0.25pF | | 0 Bulk |
| | 2 5.0 | 4 4.5x5.5x3.0 | X5R ±15% | 1C 16 | 100 10 | D ±0.5pF | | 6 Taping |
| | | 6 5.5x6.0x3.5 | X7R ±15% | 1E 25 | 101 100 | J ±5% | | |
| | | 0 5.5x7.0x4.0 | X7S ±22% | 1H 50 | 102 1,000 | K ±10% | | |
| | | 1 5.5x7.0x4.0 | X7T +22, -33% | 2A 100 | | M ±20% | | |
| | | 2 7.5x8.5x4.5 | | 2E 250 | | | | |
| | | 3 8.5x11.0x5.5 | | 2W 450 | | | | |
| | | | | 2J 630 | | | | |

OPERATING TEMPERATURE RANGE

| Capacitance temperature characteristics | Temperature range* | |
|---|----------------------------|----------------------------|
| | Operating temperature (°C) | Storage temperature** (°C) |
| COG, X7R, X7S, X7T | -55 to +125 | -55 to +125 |
| X5R | -55 to +85 | -55 to +85 |

* The maximum operating temperature includes capacitor self-generated heat of up to 20°C.

** The storage temperature range is for after the assembly.

○ RoHS Directive Compliant Product: See the following for more details. <https://product.tdk.com/en/environment/rohs/index.html>

○ Halogen-free: indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

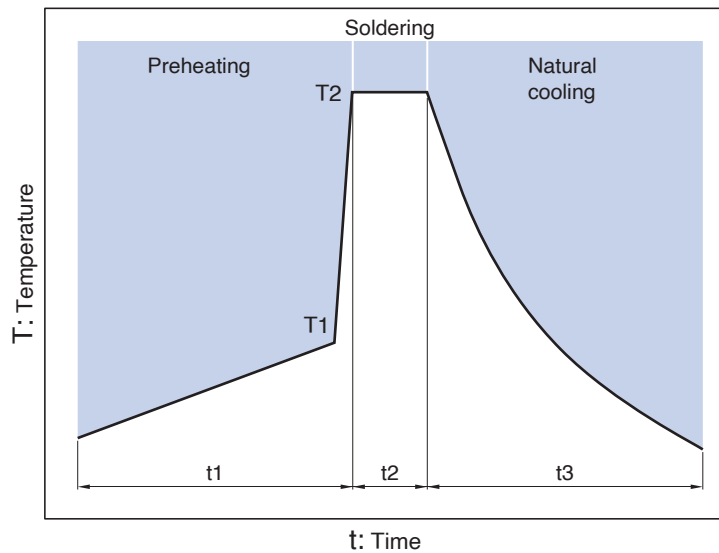
⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

Overview of the FG series

PACKAGE QUANTITY

| Type | Package quantity | |
|------|-----------------------|---------------------|
| | Taping (pieces / box) | Bulk (pieces / bag) |
| FG28 | 2000 | 500 |
| FG24 | 2000 | 500 |
| FG26 | 2000 | 500 |
| FG20 | 1500 | 500 |
| FG22 | 1000 | 500 |
| FG23 | 1000 | 200 |
| FG18 | 2000 | 500 |
| FG14 | 2000 | 500 |
| FG16 | 2000 | 500 |
| FG11 | 1500 | 500 |

RECOMMENDED FLOW PROFILE



| Preheating | | Peak | | Natural cooling |
|------------|-----------|-------|------------|-----------------|
| Temp. | Time | Temp. | Time | Time |
| T1 | t1 | T2 | t2 | t3 |
| 110°C min. | Over 60s. | 260°C | Within 5s. | Over 60s. |

CAPACITORS

MLCC with dipped radial lead

Halogen-free, commercial grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FG28 type

| Capacitance | | COG | | | X7R | | X7S |
|-------------|------|--------------|--------------|-------------|--------------|-------------|--------------|
| (pF) | Code | 2E (250V) | 2A (100V) | 1H (50V) | 2A (100V) | 1H (50V) | 2A (100V) |
| 1 | 010 | | | | | | |
| 1.5 | 1R5 | | | | | | |
| 2 | 020 | | | | | | |
| 2.2 | 2R2 | | | | | | |
| 3 | 030 | | | | | | |
| 3.3 | 3R3 | | | | | | |
| 4 | 040 | | | | | | |
| 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 | | | | | | |

- Background gray: These products are not recommended for new designs.
- Click the charts for details.
- For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

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CAPACITORS 




MLCC with dipped radial lead
Halogen-free, commercial grade


Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FG28 type

| Capacitance | | X5R | | X7R | | | X7S |
|-------------|------|-------------|-------------|-------------|-------------|-------------|--------------|
| (pF) | Code | 1H (50V) | 1E (25V) | 1H (50V) | 1E (25V) | 1A (10V) | 2A (100V) |
| 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 | ■ | | ■ | ■ | | ■ |
| 1,500,000 | 155 | ■ | ■ | | | ■ | ■ |
| 1,800,000 | 185 | | | | | ■ | ■ |
| 2,200,000 | 225 | | ■ | | | ■ | ■ |
| 2,700,000 | 275 | | ■ | | | | ■ |
| 3,300,000 | 335 | | ■ | | | | ■ |
| 3,900,000 | 395 | | ■ | | | | ■ |
| 4,700,000 | 475 | | ■ | | | | ■ |
| 5,600,000 | 565 | | ■ | | | | ■ |
| 6,800,000 | 685 | | ■ | | | | ■ |
| 10,000,000 | 106 | | ■ | | | | ■ |

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CAPACITORS




MLCC with dipped radial lead Halogen-free, commercial grade


Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FG24 type

| Capacitance | | COG | | | | X5R | | X7R | | | | | X7S | X7T | |
|-------------|------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
| (pF) | Code | 2W (450V) | 2E (250V) | 2A (100V) | 1H (50V) | 1H (50V) | 1E (25V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) | 1A (10V) | 2A (100V) | 2E (250V) |
| 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 | █ | █ | █ | █ | | | █ | █ | | | | | | █ |
| 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 | █ | █ | █ | █ | | | █ | █ | █ | █ | █ | █ | | █ |
| 6,800,000 | 685 | █ | █ | █ | █ | | | █ | █ | █ | █ | █ | █ | | █ |
| 10,000,000 | 106 | █ | █ | █ | █ | | | █ | █ | █ | █ | █ | █ | | █ |
| 15,000,000 | 156 | █ | █ | █ | █ | | | █ | █ | █ | █ | █ | █ | | █ |

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-  Click the charts for details.
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CAPACITORS

MLCC with dipped radial lead
Halogen-free, commercial grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FG26 type

| Capacitance | | COG | | | | | X5R | | X7R | | | | | X7S | X7T |
|-------------|------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|
| (pF) | Code | 2J (630V) | 2W (450V) | 2E (250V) | 2A (100V) | 1H (50V) | 1H (50V) | 1E (25V) | 2J (630V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 2A (100V) | 2E (250V) |
| 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 | █ | | █ | | █ | | | █ | | | | | | |
| 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 | █ | | █ | | █ | | | █ | | █ | █ | █ | | █ |
| 6,800,000 | 685 | █ | | █ | | █ | | █ | █ | | █ | █ | █ | | █ |
| 10,000,000 | 106 | █ | | █ | | █ | | █ | █ | | █ | █ | █ | | █ |
| 15,000,000 | 156 | █ | | █ | | █ | | █ | █ | | █ | █ | █ | | █ |
| 22,000,000 | 226 | █ | | █ | | █ | | █ | █ | | █ | █ | █ | | █ |
| 33,000,000 | 336 | █ | | █ | | █ | | █ | █ | | █ | █ | █ | | █ |
| 47,000,000 | 476 | █ | | █ | | █ | | █ | █ | | █ | █ | █ | | █ |

- █ Background gray: These products are not recommended for new designs.
- █ Click the charts for details.
- █ For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

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CAPACITORS

MLCC with dipped radial lead

Halogen-free, commercial grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FG20 type

| Capacitance | | COG | | | | X7R | | | | | X7S | | X7T | |
|-------------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|--------------|
| (pF) | Code | 2J (630V) | 2W (450V) | 2E (250V) | 2A (100V) | 2J (630V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) | 2A (100V) | 1H (50V) | 2E (250V) |
| 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 | | | | | | | | ■ | | | | | |
| 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 | | | | | | | | | | ■ | | | |

- Background gray: These products are not recommended for new designs.
- Click the charts for details.
- For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

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.

CAPACITORS

MLCC with dipped radial lead

Halogen-free, commercial grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FG22 type

| Capacitance | | COG | | | | | X5R | | X7R | | | | | | X7T | |
|-------------|------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|-----------|-----------|----------|----------|----------|-----------|--|
| (pF) | Code | 2J (630V) | 2W (450V) | 2E (250V) | 2A (100V) | 1H (50V) | 1C (16V) | 1A (10V) | 2J (100V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) | 2E (250V) | |
| 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 | | | | | | | | | | | | | | ■ | |
| 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 | | | | | | | | | | | | | | ■ | |
| 33,000,000 | 336 | | | | | | ■ | | | | | | | | ■ | |
| 47,000,000 | 476 | | | | | | | ■ | | | | | | | | |

- Background gray: These products are not recommended for new designs.
- Click the charts for details.
- For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

Capacitance range chart

FG23 type

| Capacitance | | COG | | | | X7R | | | | | | X7S | X7T |
|-------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|-----------|
| (pF) | Code | 2J (630V) | 2W (450V) | 2E (250V) | 2A (100V) | 2J (630V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) | 2A (100V) | 2E (250V) |
| 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 | | | | | | | | | | | | |
| 6,800,000 | 685 | | | | | | | | | | | ■ | |
| 10,000,000 | 106 | | | | | | | | ■ | | | ■ | |
| 15,000,000 | 156 | | | | | | | | | | | ■ | |
| 22,000,000 | 226 | | | | | | | | | ■ | | | |
| 33,000,000 | 336 | | | | | | | | | | | | |
| 47,000,000 | 476 | | | | | | | | | | ■ | | |

- Background gray: These products are not recommended for new designs.
- Click the charts for details.
- For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

⚠ 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.

CAPACITORS 




MLCC with dipped radial lead
Halogen-free, commercial grade


Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FG18 type

| Capacitance | | COG | | X7R | | X7S |
|-------------|------|--------------|-------------|--------------|-------------|--------------|
| (pF) | Code | 2A (100V) | 1H (50V) | 2A (100V) | 1H (50V) | 2A (100V) |
| 1 | 010 | | | | | |
| 1.5 | 1R5 | | | | | |
| 2 | 020 | | | | | |
| 2.2 | 2R2 | | | | | |
| 3 | 030 | | | | | |
| 3.3 | 3R3 | | | | | |
| 4 | 040 | | | | | |
| 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 | | | | | |

-  Background gray: These products are not recommended for new designs.
-  Click the charts for details.
-  For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

 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.

CAPACITORS 

MLCC with dipped radial lead
Halogen-free, commercial grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FG18 type

| Capacitance | | X5R | | X7R | | | X7S |
|-------------|------|-------------|-------------|-------------|-------------|-------------|--------------|
| (pF) | Code | 1H (50V) | 1E (25V) | 1H (50V) | 1E (25V) | 1A (10V) | 2A (100V) |
| 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 | ■ | | ■ | ■ | | ■ |
| 1,500,000 | 155 | ■ | ■ | | | ■ | ■ |
| 1,800,000 | 185 | | | | | ■ | ■ |
| 2,200,000 | 225 | | ■ | | | ■ | ■ |
| 2,700,000 | 275 | | ■ | | | | ■ |
| 3,300,000 | 335 | | ■ | | | | ■ |
| 3,900,000 | 395 | | ■ | | | | ■ |
| 4,700,000 | 475 | | ■ | | | | ■ |
| 5,600,000 | 565 | | ■ | | | | ■ |
| 6,800,000 | 685 | | ■ | | | | ■ |
| 10,000,000 | 106 | | ■ | | | | ■ |

- Background gray: These products are not recommended for new designs.
- Click the charts for details.
- For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

⚠ 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.

CAPACITORS 

MLCC with dipped radial lead
Halogen-free, commercial grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FG14 type

| Capacitance | | C0G | | X5R | | X7R | | | X7S |
|-------------|------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|
| (pF) | Code | 2A (100V) | 1H (50V) | 1H (50V) | 1E (25V) | 2A (100V) | 1H (50V) | 1E (25V) | 2A (100V) |
| 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 | | | | | █ | | | |
| 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 | | | █ | | | | █ | |
| 6,800,000 | 685 | | | █ | | | | █ | |
| 10,000,000 | 106 | | | | █ | | | | |
| 15,000,000 | 156 | | | | █ | | | | |

- █ Background gray: These products are not recommended for new designs.
- █ Click the charts for details.
- █ For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

⚠ 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.

CAPACITORS 

MLCC with dipped radial lead
Halogen-free, commercial grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FG16 type

| Capacitance | | COG | | X5R | | X7R | | | X7S |
|-------------|------|-----------|----------|----------|----------|-----------|----------|----------|-----------|
| (pF) | Code | 2A (100V) | 1H (50V) | 1H (50V) | 1E (25V) | 2A (100V) | 1H (50V) | 1E (25V) | 2A (100V) |
| 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 | | | | | █ | | █ | |
| 1,500,000 | 155 | | | | | | | | █ |
| 2,200,000 | 225 | | | | | | | | █ |
| 3,300,000 | 335 | | | | | | █ | | |
| 4,700,000 | 475 | | | | | | █ | | |
| 6,800,000 | 685 | | | █ | | | | █ | |
| 10,000,000 | 106 | | | █ | | | | | █ |
| 1,500,000 | 156 | | | | | | | | |
| 2,200,000 | 225 | | | | | | | | |
| 33,000,000 | 336 | | | | █ | | | | |

- █ Background gray: These products are not recommended for new designs.
- █ Click the charts for details.
- █ For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

Capacitance range chart

FG11 type

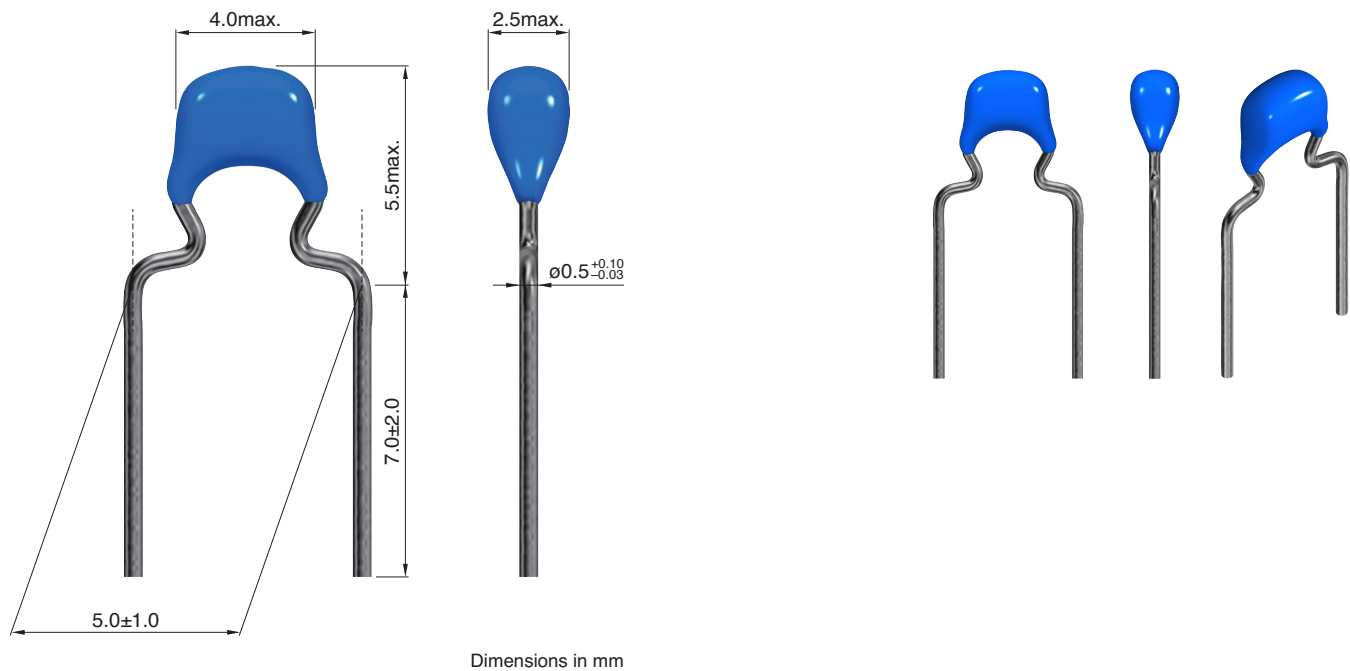
| Capacitance | | COG | | X7R | | | X7S | |
|-------------|------|-----------|-----------|----------|----------|----------|-----------|----------|
| (pF) | Code | 2A (100V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) | 2A (100V) | 1H (50V) |
| 47,000 | 473 | █ | | | | | | |
| 68,000 | 683 | █ | | | | | | |
| 100,000 | 104 | | | | | | | |
| 150,000 | 154 | | | | | | | |
| 220,000 | 224 | | | | | | | |
| 330,000 | 334 | | | | | | | |
| 470,000 | 474 | | | | | | | |
| 680,000 | 684 | | | | | | | |
| 1,000,000 | 105 | | | | | | | |
| 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 | | | | | █ | | |

- █ Background gray: These products are not recommended for new designs.
- █ Click the charts for details.
- █ For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

⚠ 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.

FG28 type

SHAPE & DIMENSIONS



CAPACITORS 

FG28 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 1.0pF | ±0.25pF | 50 | FG28C0G1H010CNT00 | FG28C0G1H010CNT06 |
| C0G | 1.5pF | ±0.25pF | 50 | FG28C0G1H1R5CNT00 | FG28C0G1H1R5CNT06 |
| C0G | 2.0pF | ±0.25pF | 50 | FG28C0G1H020CNT00 | FG28C0G1H020CNT06 |
| C0G | 2.2pF | ±0.25pF | 50 | FG28C0G1H2R2CNT00 | FG28C0G1H2R2CNT06 |
| C0G | 3.0pF | ±0.25pF | 50 | FG28C0G1H030CNT00 | FG28C0G1H030CNT06 |
| C0G | 3.3pF | ±0.25pF | 50 | FG28C0G1H3R3CNT00 | FG28C0G1H3R3CNT06 |
| C0G | 4.0pF | ±0.25pF | 50 | FG28C0G1H040CNT00 | FG28C0G1H040CNT06 |
| C0G | 4.7pF | ±0.25pF | 50 | FG28C0G1H4R7CNT00 | FG28C0G1H4R7CNT06 |
| C0G | 5.0pF | ±0.25pF | 50 | FG28C0G1H050CNT00 | FG28C0G1H050CNT06 |
| C0G | 6.0pF | ±0.5pF | 50 | FG28C0G1H060DNT00 | FG28C0G1H060DNT06 |
| C0G | 6.8pF | ±0.5pF | 50 | FG28C0G1H6R8DNT00 | FG28C0G1H6R8DNT06 |
| C0G | 7.0pF | ±0.5pF | 50 | FG28C0G1H070DNT00 | FG28C0G1H070DNT06 |
| C0G | 8.0pF | ±0.5pF | 50 | FG28C0G1H080DNT00 | FG28C0G1H080DNT06 |
| C0G | 9.0pF | ±0.5pF | 50 | FG28C0G1H090DNT00 | FG28C0G1H090DNT06 |
| C0G | 10pF | ±0.5pF | 50 | FG28C0G1H100DNT00 | FG28C0G1H100DNT06 |
| C0G | 12pF | ±5% | 50 | FG28C0G1H120JNT00 | FG28C0G1H120JNT06 |
| C0G | 15pF | ±5% | 50 | FG28C0G1H150JNT00 | FG28C0G1H150JNT06 |
| C0G | 18pF | ±5% | 50 | FG28C0G1H180JNT00 | FG28C0G1H180JNT06 |
| C0G | 22pF | ±5% | 50 | FG28C0G1H220JNT00 | FG28C0G1H220JNT06 |
| C0G | 27pF | ±5% | 50 | FG28C0G1H270JNT00 | FG28C0G1H270JNT06 |
| C0G | 33pF | ±5% | 50 | FG28C0G1H330JNT00 | FG28C0G1H330JNT06 |
| C0G | 39pF | ±5% | 50 | FG28C0G1H390JNT00 | FG28C0G1H390JNT06 |
| C0G | 47pF | ±5% | 50 | FG28C0G1H470JNT00 | FG28C0G1H470JNT06 |
| C0G | 56pF | ±5% | 50 | FG28C0G1H560JNT00 | FG28C0G1H560JNT06 |
| C0G | 68pF | ±5% | 50 | FG28C0G1H680JNT00 | FG28C0G1H680JNT06 |
| C0G | 82pF | ±5% | 50 | FG28C0G1H820JNT00 | FG28C0G1H820JNT06 |
| C0G | 100pF | ±5% | 50 | FG28C0G1H101JNT00 | FG28C0G1H101JNT06 |
| C0G | 120pF | ±5% | 50 | FG28C0G1H121JNT00 | FG28C0G1H121JNT06 |
| C0G | 150pF | ±5% | 50 | FG28C0G1H151JNT00 | FG28C0G1H151JNT06 |
| C0G | 180pF | ±5% | 50 | FG28C0G1H181JNT00 | FG28C0G1H181JNT06 |
| C0G | 220pF | ±5% | 50 | FG28C0G1H221JNT00 | FG28C0G1H221JNT06 |
| C0G | 270pF | ±5% | 50 | FG28C0G1H271JNT00 | FG28C0G1H271JNT06 |
| C0G | 330pF | ±5% | 50 | FG28C0G1H331JNT00 | FG28C0G1H331JNT06 |
| C0G | 390pF | ±5% | 50 | FG28C0G1H391JNT00 | FG28C0G1H391JNT06 |
| C0G | 470pF | ±5% | 50 | FG28C0G1H471JNT00 | FG28C0G1H471JNT06 |
| C0G | 560pF | ±5% | 50 | FG28C0G1H561JNT00 | FG28C0G1H561JNT06 |
| C0G | 680pF | ±5% | 50 | FG28C0G1H681JNT00 | FG28C0G1H681JNT06 |
| C0G | 820pF | ±5% | 50 | FG28C0G1H821JNT00 | FG28C0G1H821JNT06 |
| C0G | 1nF | ±5% | 50 | FG28C0G1H102JNT00 | FG28C0G1H102JNT06 |
| C0G | 1.2nF | ±5% | 50 | FG28C0G1H122JNT00 | FG28C0G1H122JNT06 |
| C0G | 1.5nF | ±5% | 50 | FG28C0G1H152JNT00 | FG28C0G1H152JNT06 |
| C0G | 1.8nF | ±5% | 50 | FG28C0G1H182JNT00 | FG28C0G1H182JNT06 |
| C0G | 2.2nF | ±5% | 50 | FG28C0G1H222JNT00 | FG28C0G1H222JNT06 |
| C0G | 2.7nF | ±5% | 50 | FG28C0G1H272JNT00 | FG28C0G1H272JNT06 |
| C0G | 3.3nF | ±5% | 50 | FG28C0G1H332JNT00 | FG28C0G1H332JNT06 |
| C0G | 3.9nF | ±5% | 50 | FG28C0G1H392JNT00 | FG28C0G1H392JNT06 |
| C0G | 4.7nF | ±5% | 50 | FG28C0G1H472JNT00 | FG28C0G1H472JNT06 |
| C0G | 5.6nF | ±5% | 50 | FG28C0G1H562JNT00 | FG28C0G1H562JNT06 |
| C0G | 6.8nF | ±5% | 50 | FG28C0G1H682JNT00 | FG28C0G1H682JNT06 |
| C0G | 8.2nF | ±5% | 50 | FG28C0G1H822JNT00 | FG28C0G1H822JNT06 |

■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

CAPACITORS 

FG28 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE


CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 10nF | ±5% | 50 | FG28C0G1H103JNT00 | FG28C0G1H103JNT06 |
| C0G | 1.0pF | ±0.25pF | 100 | FG28C0G2A010CNT00 | FG28C0G2A010CNT06 |
| C0G | 1.5pF | ±0.25pF | 100 | FG28C0G2A1R5CNT00 | FG28C0G2A1R5CNT06 |
| C0G | 2.0pF | ±0.25pF | 100 | FG28C0G2A020CNT00 | FG28C0G2A020CNT06 |
| C0G | 2.2pF | ±0.25pF | 100 | FG28C0G2A2R2CNT00 | FG28C0G2A2R2CNT06 |
| C0G | 3.0pF | ±0.25pF | 100 | FG28C0G2A030CNT00 | FG28C0G2A030CNT06 |
| C0G | 3.3pF | ±0.25pF | 100 | FG28C0G2A3R3CNT00 | FG28C0G2A3R3CNT06 |
| C0G | 4.0pF | ±0.25pF | 100 | FG28C0G2A040CNT00 | FG28C0G2A040CNT06 |
| C0G | 4.7pF | ±0.25pF | 100 | FG28C0G2A4R7CNT00 | FG28C0G2A4R7CNT06 |
| C0G | 5.0pF | ±0.25pF | 100 | FG28C0G2A050CNT00 | FG28C0G2A050CNT06 |
| C0G | 6.0pF | ±0.5pF | 100 | FG28C0G2A060DNT00 | FG28C0G2A060DNT06 |
| C0G | 6.8pF | ±0.5pF | 100 | FG28C0G2A6R8DNT00 | FG28C0G2A6R8DNT06 |
| C0G | 7.0pF | ±0.5pF | 100 | FG28C0G2A070DNT00 | FG28C0G2A070DNT06 |
| C0G | 8.0pF | ±0.5pF | 100 | FG28C0G2A080DNT00 | FG28C0G2A080DNT06 |
| C0G | 9.0pF | ±0.5pF | 100 | FG28C0G2A090DNT00 | FG28C0G2A090DNT06 |
| C0G | 10pF | ±0.5pF | 100 | FG28C0G2A100DNT00 | FG28C0G2A100DNT06 |
| C0G | 12pF | ±5% | 100 | FG28C0G2A120JNT00 | FG28C0G2A120JNT06 |
| C0G | 15pF | ±5% | 100 | FG28C0G2A150JNT00 | FG28C0G2A150JNT06 |
| C0G | 18pF | ±5% | 100 | FG28C0G2A180JNT00 | FG28C0G2A180JNT06 |
| C0G | 22pF | ±5% | 100 | FG28C0G2A220JNT00 | FG28C0G2A220JNT06 |
| C0G | 27pF | ±5% | 100 | FG28C0G2A270JNT00 | FG28C0G2A270JNT06 |
| C0G | 33pF | ±5% | 100 | FG28C0G2A330JNT00 | FG28C0G2A330JNT06 |
| C0G | 39pF | ±5% | 100 | FG28C0G2A390JNT00 | FG28C0G2A390JNT06 |
| C0G | 47pF | ±5% | 100 | FG28C0G2A470JNT00 | FG28C0G2A470JNT06 |
| C0G | 56pF | ±5% | 100 | FG28C0G2A560JNT00 | FG28C0G2A560JNT06 |
| C0G | 68pF | ±5% | 100 | FG28C0G2A680JNT00 | FG28C0G2A680JNT06 |
| C0G | 82pF | ±5% | 100 | FG28C0G2A820JNT00 | FG28C0G2A820JNT06 |
| C0G | 100pF | ±5% | 100 | FG28C0G2A101JNT00 | FG28C0G2A101JNT06 |
| C0G | 120pF | ±5% | 100 | FG28C0G2A121JNT00 | FG28C0G2A121JNT06 |
| C0G | 150pF | ±5% | 100 | FG28C0G2A151JNT00 | FG28C0G2A151JNT06 |
| C0G | 180pF | ±5% | 100 | FG28C0G2A181JNT00 | FG28C0G2A181JNT06 |
| C0G | 220pF | ±5% | 100 | FG28C0G2A221JNT00 | FG28C0G2A221JNT06 |
| C0G | 270pF | ±5% | 100 | FG28C0G2A271JNT00 | FG28C0G2A271JNT06 |
| C0G | 330pF | ±5% | 100 | FG28C0G2A331JNT00 | FG28C0G2A331JNT06 |
| C0G | 390pF | ±5% | 100 | FG28C0G2A391JNT00 | FG28C0G2A391JNT06 |
| C0G | 470pF | ±5% | 100 | FG28C0G2A471JNT00 | FG28C0G2A471JNT06 |
| C0G | 560pF | ±5% | 100 | FG28C0G2A561JNT00 | FG28C0G2A561JNT06 |
| C0G | 680pF | ±5% | 100 | FG28C0G2A681JNT00 | FG28C0G2A681JNT06 |
| C0G | 820pF | ±5% | 100 | FG28C0G2A821JNT00 | FG28C0G2A821JNT06 |
| C0G | 1nF | ±5% | 100 | FG28C0G2A102JNT00 | FG28C0G2A102JNT06 |
| C0G | 1.2nF | ±5% | 100 | FG28C0G2A122JNT00 | FG28C0G2A122JNT06 |
| C0G | 1.5nF | ±5% | 100 | FG28C0G2A152JNT00 | FG28C0G2A152JNT06 |
| C0G | 1.8nF | ±5% | 100 | FG28C0G2A182JNT00 | FG28C0G2A182JNT06 |
| C0G | 2.2nF | ±5% | 100 | FG28C0G2A222JNT00 | FG28C0G2A222JNT06 |
| C0G | 2.7nF | ±5% | 100 | FG28C0G2A272JNT00 | FG28C0G2A272JNT06 |
| C0G | 3.3nF | ±5% | 100 | FG28C0G2A332JNT00 | FG28C0G2A332JNT06 |
| C0G | 3.9nF | ±5% | 100 | FG28C0G2A392JRT00 | FG28C0G2A392JRT06 |
| C0G | 4.7nF | ±5% | 100 | FG28C0G2A472JRT00 | FG28C0G2A472JRT06 |
| C0G | 5.6nF | ±5% | 100 | FG28C0G2A562JRT00 | FG28C0G2A562JRT06 |
| C0G | 6.8nF | ±5% | 100 | FG28C0G2A682JRT00 | FG28C0G2A682JRT06 |
| C0G | 8.2nF | ±5% | 100 | FG28C0G2A822JRT00 | FG28C0G2A822JRT06 |
| C0G | 10nF | ±5% | 100 | FG28C0G2A103JRT00 | FG28C0G2A103JRT06 |

■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

 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.

CAPACITORS



FG28 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 100pF | ±5% | 250 | FG28C0G2E101JNT00 | FG28C0G2E101JNT06 |
| C0G | 120pF | ±5% | 250 | FG28C0G2E121JNT00 | FG28C0G2E121JNT06 |
| C0G | 150pF | ±5% | 250 | FG28C0G2E151JNT00 | FG28C0G2E151JNT06 |
| C0G | 180pF | ±5% | 250 | FG28C0G2E181JNT00 | FG28C0G2E181JNT06 |
| C0G | 220pF | ±5% | 250 | FG28C0G2E221JNT00 | FG28C0G2E221JNT06 |
| C0G | 270pF | ±5% | 250 | FG28C0G2E271JNT00 | FG28C0G2E271JNT06 |
| C0G | 330pF | ±5% | 250 | FG28C0G2E331JNT00 | FG28C0G2E331JNT06 |
| C0G | 390pF | ±5% | 250 | FG28C0G2E391JNT00 | FG28C0G2E391JNT06 |
| C0G | 470pF | ±5% | 250 | FG28C0G2E471JNT00 | FG28C0G2E471JNT06 |
| C0G | 560pF | ±5% | 250 | FG28C0G2E561JNT00 | FG28C0G2E561JNT06 |
| C0G | 680pF | ±5% | 250 | FG28C0G2E681JNT00 | FG28C0G2E681JNT06 |
| C0G | 820pF | ±5% | 250 | FG28C0G2E821JNT00 | FG28C0G2E821JNT06 |
| C0G | 1nF | ±5% | 250 | FG28C0G2E102JNT00 | FG28C0G2E102JNT06 |
| C0G | 1.2nF | ±5% | 250 | FG28C0G2E122JNT00 | FG28C0G2E122JNT06 |
| C0G | 1.5nF | ±5% | 250 | FG28C0G2E152JNT00 | FG28C0G2E152JNT06 |
| C0G | 1.8nF | ±5% | 250 | FG28C0G2E182JNT00 | FG28C0G2E182JNT06 |
| C0G | 2.2nF | ±5% | 250 | FG28C0G2E222JNT00 | FG28C0G2E222JNT06 |

■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

CAPACITORS



FG28 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 2 (TEMPERATURE STABLE)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| X5R | 1.5uF | ±10% | 25 | FG28X5R1E155KRT00 | FG28X5R1E155KRT06 |
| X5R | 2.2uF | ±10% | 25 | FG28X5R1E225KRT00 | FG28X5R1E225KRT06 |
| X5R | 3.3uF | ±10% | 25 | FG28X5R1E335KRT00 | FG28X5R1E335KRT06 |
| X5R | 4.7uF | ±10% | 25 | FG28X5R1E475KRT00 | FG28X5R1E475KRT06 |
| X5R | 6.8uF | ±10% | 25 | FG28X5R1E685KRT00 | FG28X5R1E685KRT06 |
| X5R | 10uF | ±20% | 25 | FG28X5R1E106MRT00 | FG28X5R1E106MRT06 |
| X5R | 680nF | ±10% | 50 | FG28X5R1H684KRT00 | FG28X5R1H684KRT06 |
| X5R | 1uF | ±10% | 50 | FG28X5R1H105KRT00 | FG28X5R1H105KRT06 |
| X7R | 1.5uF | ±10% | 10 | FG28X7R1A155KRT00 | FG28X7R1A155KRT06 |
| X7R | 2.2uF | ±10% | 10 | FG28X7R1A225KRT00 | FG28X7R1A225KRT06 |
| X7R | 150nF | ±10% | 25 | FG28X7R1E154KNT00 | FG28X7R1E154KNT06 |
| X7R | 680nF | ±10% | 25 | FG28X7R1E684KRT00 | FG28X7R1E684KRT06 |
| X7R | 1uF | ±10% | 25 | FG28X7R1E105KRT00 | FG28X7R1E105KRT06 |
| X7R | 1nF | ±10% | 50 | FG28X7R1H102KNT00 | FG28X7R1H102KNT06 |
| X7R | 1.5nF | ±10% | 50 | FG28X7R1H152KNT00 | FG28X7R1H152KNT06 |
| X7R | 2.2nF | ±10% | 50 | FG28X7R1H222KNT00 | FG28X7R1H222KNT06 |
| X7R | 3.3nF | ±10% | 50 | FG28X7R1H332KNT00 | FG28X7R1H332KNT06 |
| X7R | 4.7nF | ±10% | 50 | FG28X7R1H472KNT00 | FG28X7R1H472KNT06 |
| X7R | 6.8nF | ±10% | 50 | FG28X7R1H682KNT00 | FG28X7R1H682KNT06 |
| X7R | 10nF | ±10% | 50 | FG28X7R1H103KNT00 | FG28X7R1H103KNT06 |
| X7R | 15nF | ±10% | 50 | FG28X7R1H153KNT00 | FG28X7R1H153KNT06 |
| X7R | 22nF | ±10% | 50 | FG28X7R1H223KNT00 | FG28X7R1H223KNT06 |
| X7R | 33nF | ±10% | 50 | FG28X7R1H333KNT00 | FG28X7R1H333KNT06 |
| X7R | 47nF | ±10% | 50 | FG28X7R1H473KNT00 | FG28X7R1H473KNT06 |
| X7R | 68nF | ±10% | 50 | FG28X7R1H683KNT00 | FG28X7R1H683KNT06 |
| X7R | 100nF | ±10% | 50 | FG28X7R1H104KNT00 | FG28X7R1H104KNT06 |
| X7R | 150nF | ±10% | 50 | FG28X7R1H154KRT00 | FG28X7R1H154KRT06 |
| X7R | 220nF | ±10% | 50 | FG28X7R1H224KRT00 | FG28X7R1H224KRT06 |
| X7R | 330nF | ±10% | 50 | FG28X7R1H334KRT00 | FG28X7R1H334KRT06 |
| X7R | 470nF | ±10% | 50 | FG28X7R1H474KRT00 | FG28X7R1H474KRT06 |
| X7R | 1nF | ±10% | 100 | FG28X7R2A102KNT00 | FG28X7R2A102KNT06 |
| X7R | 1.5nF | ±10% | 100 | FG28X7R2A152KNT00 | FG28X7R2A152KNT06 |
| X7R | 2.2nF | ±10% | 100 | FG28X7R2A222KNT00 | FG28X7R2A222KNT06 |
| X7R | 3.3nF | ±10% | 100 | FG28X7R2A332KNT00 | FG28X7R2A332KNT06 |
| X7R | 4.7nF | ±10% | 100 | FG28X7R2A472KNT00 | FG28X7R2A472KNT06 |
| X7R | 6.8nF | ±10% | 100 | FG28X7R2A682KNT00 | FG28X7R2A682KNT06 |
| X7R | 10nF | ±10% | 100 | FG28X7R2A103KNT00 | FG28X7R2A103KNT06 |
| X7R | 15nF | ±10% | 100 | FG28X7R2A153KNT00 | FG28X7R2A153KNT06 |
| X7R | 22nF | ±10% | 100 | FG28X7R2A223KNT00 | FG28X7R2A223KNT06 |
| X7S | 33nF | ±10% | 100 | FG28X7S2A333KRT00 | FG28X7S2A333KRT06 |
| X7S | 47nF | ±10% | 100 | FG28X7S2A473KRT00 | FG28X7S2A473KRT06 |
| X7S | 68nF | ±10% | 100 | FG28X7S2A683KRT00 | FG28X7S2A683KRT06 |
| X7S | 100nF | ±10% | 100 | FG28X7S2A104KRT00 | FG28X7S2A104KRT06 |

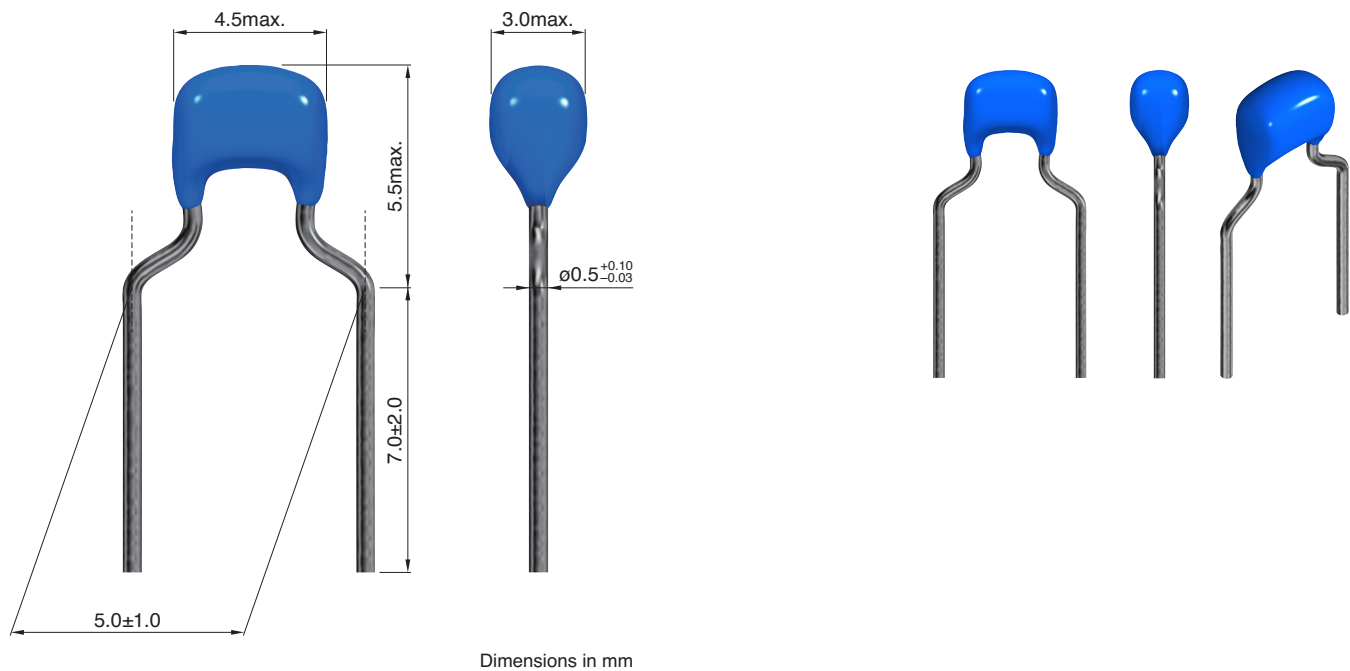
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

FG24 type

SHAPE & DIMENSIONS



CAPACITORS



FG24 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 15nF | ±5% | 50 | FG24C0G1H153JNT00 | FG24C0G1H153JNT06 |
| C0G | 22nF | ±5% | 50 | FG24C0G1H223JNT00 | FG24C0G1H223JNT06 |
| C0G | 33nF | ±5% | 50 | FG24C0G1H333JNT00 | FG24C0G1H333JNT06 |
| C0G | 3.9nF | ±5% | 100 | FG24C0G2A392JNT00 | FG24C0G2A392JNT06 |
| C0G | 4.7nF | ±5% | 100 | FG24C0G2A472JNT00 | FG24C0G2A472JNT06 |
| C0G | 5.6nF | ±5% | 100 | FG24C0G2A562JNT00 | FG24C0G2A562JNT06 |
| C0G | 6.8nF | ±5% | 100 | FG24C0G2A682JNT00 | FG24C0G2A682JNT06 |
| C0G | 8.2nF | ±5% | 100 | FG24C0G2A822JNT00 | FG24C0G2A822JNT06 |
| C0G | 10nF | ±5% | 100 | FG24C0G2A103JNT00 | FG24C0G2A103JNT06 |
| C0G | 15nF | ±5% | 100 | FG24C0G2A153JRT00 | FG24C0G2A153JRT06 |
| C0G | 22nF | ±5% | 100 | FG24C0G2A223JRT00 | FG24C0G2A223JRT06 |
| C0G | 33nF | ±5% | 100 | FG24C0G2A333JRT00 | FG24C0G2A333JRT06 |
| C0G | 2.7nF | ±5% | 250 | FG24C0G2E272JNT00 | FG24C0G2E272JNT06 |
| C0G | 3.3nF | ±5% | 250 | FG24C0G2E332JNT00 | FG24C0G2E332JNT06 |
| C0G | 3.9nF | ±5% | 250 | FG24C0G2E392JNT00 | FG24C0G2E392JNT06 |
| C0G | 4.7nF | ±5% | 250 | FG24C0G2E472JNT00 | FG24C0G2E472JNT06 |
| C0G | 5.6nF | ±5% | 250 | FG24C0G2E562JNT00 | FG24C0G2E562JNT06 |
| C0G | 6.8nF | ±5% | 250 | FG24C0G2E682JNT00 | FG24C0G2E682JNT06 |
| C0G | 8.2nF | ±5% | 250 | FG24C0G2E822JNT00 | FG24C0G2E822JNT06 |
| C0G | 10nF | ±5% | 250 | FG24C0G2E103JNT00 | FG24C0G2E103JNT06 |
| C0G | 100pF | ±5% | 450 | FG24C0G2W101JNT00 | FG24C0G2W101JNT06 |
| C0G | 120pF | ±5% | 450 | FG24C0G2W121JNT00 | FG24C0G2W121JNT06 |
| C0G | 150pF | ±5% | 450 | FG24C0G2W151JNT00 | FG24C0G2W151JNT06 |
| C0G | 180pF | ±5% | 450 | FG24C0G2W181JNT00 | FG24C0G2W181JNT06 |
| C0G | 220pF | ±5% | 450 | FG24C0G2W221JNT00 | FG24C0G2W221JNT06 |
| C0G | 270pF | ±5% | 450 | FG24C0G2W271JNT00 | FG24C0G2W271JNT06 |
| C0G | 330pF | ±5% | 450 | FG24C0G2W331JNT00 | FG24C0G2W331JNT06 |
| C0G | 390pF | ±5% | 450 | FG24C0G2W391JNT00 | FG24C0G2W391JNT06 |
| C0G | 470pF | ±5% | 450 | FG24C0G2W471JNT00 | FG24C0G2W471JNT06 |
| C0G | 560pF | ±5% | 450 | FG24C0G2W561JNT00 | FG24C0G2W561JNT06 |
| C0G | 680pF | ±5% | 450 | FG24C0G2W681JNT00 | FG24C0G2W681JNT06 |
| C0G | 820pF | ±5% | 450 | FG24C0G2W821JNT00 | FG24C0G2W821JNT06 |
| C0G | 1nF | ±5% | 450 | FG24C0G2W102JNT00 | FG24C0G2W102JNT06 |
| C0G | 1.2nF | ±5% | 450 | FG24C0G2W122JNT00 | FG24C0G2W122JNT06 |
| C0G | 1.5nF | ±5% | 450 | FG24C0G2W152JNT00 | FG24C0G2W152JNT06 |
| C0G | 1.8nF | ±5% | 450 | FG24C0G2W182JNT00 | FG24C0G2W182JNT06 |
| C0G | 2.2nF | ±5% | 450 | FG24C0G2W222JNT00 | FG24C0G2W222JNT06 |
| C0G | 2.7nF | ±5% | 450 | FG24C0G2W272JNT00 | FG24C0G2W272JNT06 |
| C0G | 3.3nF | ±5% | 450 | FG24C0G2W332JNT00 | FG24C0G2W332JNT06 |
| C0G | 3.9nF | ±5% | 450 | FG24C0G2W392JNT00 | FG24C0G2W392JNT06 |
| C0G | 4.7nF | ±5% | 450 | FG24C0G2W472JNT00 | FG24C0G2W472JNT06 |
| C0G | 5.6nF | ±5% | 450 | FG24C0G2W562JNT00 | FG24C0G2W562JNT06 |

■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

CAPACITORS



FG24 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 2 (TEMPERATURE STABLE)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| X5R | 15uF | ±20% | 25 | FG24X5R1E156MRT00 | FG24X5R1E156MRT06 |
| X5R | 3.3uF | ±10% | 50 | FG24X5R1H335KRT00 | FG24X5R1H335KRT06 |
| X5R | 4.7uF | ±10% | 50 | FG24X5R1H475KRT00 | FG24X5R1H475KRT06 |
| X7R | 6.8uF | ±10% | 10 | FG24X7R1A685KRT00 | FG24X7R1A685KRT06 |
| X7R | 10uF | ±10% | 10 | FG24X7R1A106KRT00 | FG24X7R1A106KRT06 |
| X7R | 680nF | ±10% | 16 | FG24X7R1C684KNT00 | FG24X7R1C684KNT06 |
| X7R | 470nF | ±10% | 25 | FG24X7R1E474KNT00 | FG24X7R1E474KNT06 |
| X7R | 3.3uF | ±10% | 25 | FG24X7R1E335KRT00 | FG24X7R1E335KRT06 |
| X7R | 4.7uF | ±10% | 25 | FG24X7R1E475KRT00 | FG24X7R1E475KRT06 |
| X7R | 150nF | ±10% | 50 | FG24X7R1H154KNT00 | FG24X7R1H154KNT06 |
| X7R | 220nF | ±10% | 50 | FG24X7R1H224KNT00 | FG24X7R1H224KNT06 |
| X7R | 330nF | ±10% | 50 | FG24X7R1H334KNT00 | FG24X7R1H334KNT06 |
| X7R | 680nF | ±10% | 50 | FG24X7R1H684KRT00 | FG24X7R1H684KRT06 |
| X7R | 1uF | ±10% | 50 | FG24X7R1H105KRT00 | FG24X7R1H105KRT06 |
| X7R | 1.5uF | ±10% | 50 | FG24X7R1H155KRT00 | FG24X7R1H155KRT06 |
| X7R | 2.2uF | ±10% | 50 | FG24X7R1H225KRT00 | FG24X7R1H225KRT06 |
| X7R | 33nF | ±10% | 100 | FG24X7R2A333KNT00 | FG24X7R2A333KNT06 |
| X7R | 47nF | ±10% | 100 | FG24X7R2A473KNT00 | FG24X7R2A473KNT06 |
| X7R | 68nF | ±10% | 100 | FG24X7R2A683KNT00 | FG24X7R2A683KNT06 |
| X7R | 100nF | ±10% | 100 | FG24X7R2A104KNT00 | FG24X7R2A104KNT06 |
| X7R | 1nF | ±10% | 250 | FG24X7R2E102KNT00 | FG24X7R2E102KNT06 |
| X7R | 1.5nF | ±10% | 250 | FG24X7R2E152KNT00 | FG24X7R2E152KNT06 |
| X7R | 2.2nF | ±10% | 250 | FG24X7R2E222KNT00 | FG24X7R2E222KNT06 |
| X7R | 3.3nF | ±10% | 250 | FG24X7R2E332KNT00 | FG24X7R2E332KNT06 |
| X7R | 4.7nF | ±10% | 250 | FG24X7R2E472KNT00 | FG24X7R2E472KNT06 |
| X7R | 6.8nF | ±10% | 250 | FG24X7R2E682KNT00 | FG24X7R2E682KNT06 |
| X7R | 10nF | ±10% | 250 | FG24X7R2E103KNT00 | FG24X7R2E103KNT06 |
| X7R | 15nF | ±10% | 250 | FG24X7R2E153KNT00 | FG24X7R2E153KNT06 |
| X7R | 22nF | ±10% | 250 | FG24X7R2E223KNT00 | FG24X7R2E223KNT06 |
| X7S | 150nF | ±10% | 100 | FG24X7S2A154KRT00 | FG24X7S2A154KRT06 |
| X7S | 220nF | ±10% | 100 | FG24X7S2A224KRT00 | FG24X7S2A224KRT06 |
| X7S | 330nF | ±10% | 100 | FG24X7S2A334KRT00 | FG24X7S2A334KRT06 |
| X7S | 470nF | ±10% | 100 | FG24X7S2A474KRT00 | FG24X7S2A474KRT06 |
| X7S | 680nF | ±10% | 100 | FG24X7S2A684KRT00 | FG24X7S2A684KRT06 |
| X7S | 1uF | ±10% | 100 | FG24X7S2A105KRT00 | FG24X7S2A105KRT06 |
| X7T | 33nF | ±10% | 250 | FG24X7T2E333KNT00 | FG24X7T2E333KNT06 |
| X7T | 47nF | ±10% | 250 | FG24X7T2E473KNT00 | FG24X7T2E473KNT06 |
| X7T | 68nF | ±10% | 250 | FG24X7T2E683KNT00 | FG24X7T2E683KNT06 |
| X7T | 100nF | ±10% | 250 | FG24X7T2E104KNT00 | FG24X7T2E104KNT06 |

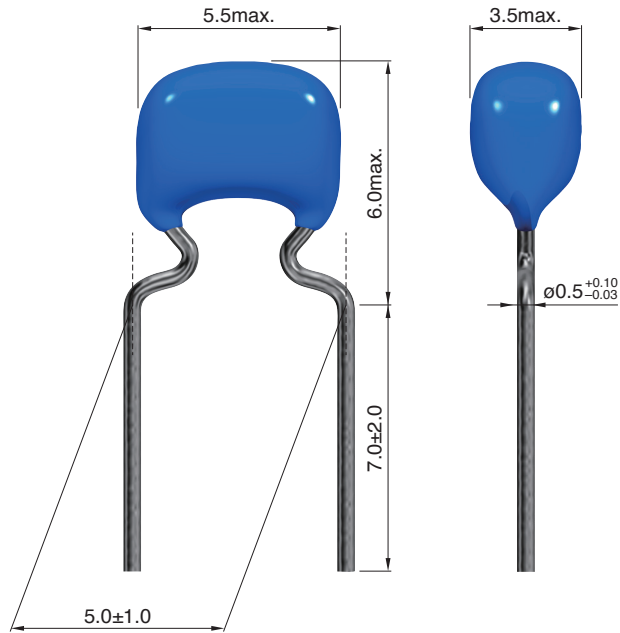
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

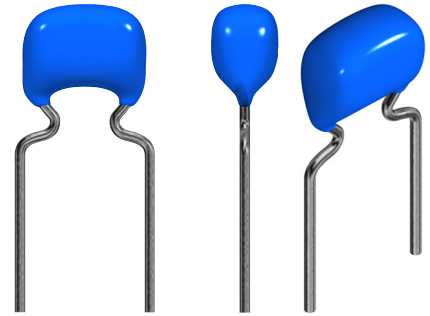
* The part numbers are TDK's standard specification products.

FG26 type

SHAPE & DIMENSIONS



Dimensions in mm



CAPACITORS



FG26 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 47nF | ±5% | 50 | FG26C0G1H473JNT00 | FG26C0G1H473JNT06 |
| C0G | 68nF | ±5% | 50 | FG26C0G1H683JNT00 | FG26C0G1H683JNT06 |
| C0G | 100nF | ±5% | 50 | FG26C0G1H104JNT00 | FG26C0G1H104JNT06 |
| C0G | 15nF | ±5% | 100 | FG26C0G2A153JNT00 | FG26C0G2A153JNT06 |
| C0G | 22nF | ±5% | 100 | FG26C0G2A223JNT00 | FG26C0G2A223JNT06 |
| C0G | 33nF | ±5% | 100 | FG26C0G2A333JNT00 | FG26C0G2A333JNT06 |
| C0G | 47nF | ±5% | 100 | FG26C0G2A473JRT00 | FG26C0G2A473JRT06 |
| C0G | 68nF | ±5% | 100 | FG26C0G2A683JRT00 | FG26C0G2A683JRT06 |
| C0G | 100nF | ±5% | 100 | FG26C0G2A104JRT00 | FG26C0G2A104JRT06 |
| C0G | 15nF | ±5% | 250 | FG26C0G2E153JNT00 | FG26C0G2E153JNT06 |
| C0G | 22nF | ±5% | 250 | FG26C0G2E223JNT00 | FG26C0G2E223JNT06 |
| C0G | 6.8nF | ±5% | 450 | FG26C0G2W682JNT00 | FG26C0G2W682JNT06 |
| C0G | 8.2nF | ±5% | 450 | FG26C0G2W822JNT00 | FG26C0G2W822JNT06 |
| C0G | 10nF | ±5% | 450 | FG26C0G2W103JNT00 | FG26C0G2W103JNT06 |
| C0G | 15nF | ±5% | 450 | FG26C0G2W153JNT00 | FG26C0G2W153JNT06 |
| C0G | 100pF | ±5% | 630 | FG26C0G2J101JNT00 | FG26C0G2J101JNT06 |
| C0G | 120pF | ±5% | 630 | FG26C0G2J121JNT00 | FG26C0G2J121JNT06 |
| C0G | 150pF | ±5% | 630 | FG26C0G2J151JNT00 | FG26C0G2J151JNT06 |
| C0G | 180pF | ±5% | 630 | FG26C0G2J181JNT00 | FG26C0G2J181JNT06 |
| C0G | 220pF | ±5% | 630 | FG26C0G2J221JNT00 | FG26C0G2J221JNT06 |
| C0G | 270pF | ±5% | 630 | FG26C0G2J271JNT00 | FG26C0G2J271JNT06 |
| C0G | 330pF | ±5% | 630 | FG26C0G2J331JNT00 | FG26C0G2J331JNT06 |
| C0G | 390pF | ±5% | 630 | FG26C0G2J391JNT00 | FG26C0G2J391JNT06 |
| C0G | 470pF | ±5% | 630 | FG26C0G2J471JNT00 | FG26C0G2J471JNT06 |
| C0G | 560pF | ±5% | 630 | FG26C0G2J561JNT00 | FG26C0G2J561JNT06 |
| C0G | 680pF | ±5% | 630 | FG26C0G2J681JNT00 | FG26C0G2J681JNT06 |
| C0G | 820pF | ±5% | 630 | FG26C0G2J821JNT00 | FG26C0G2J821JNT06 |
| C0G | 1nF | ±5% | 630 | FG26C0G2J102JNT00 | FG26C0G2J102JNT06 |
| C0G | 1.2nF | ±5% | 630 | FG26C0G2J122JNT00 | FG26C0G2J122JNT06 |
| C0G | 1.5nF | ±5% | 630 | FG26C0G2J152JNT00 | FG26C0G2J152JNT06 |
| C0G | 1.8nF | ±5% | 630 | FG26C0G2J182JNT00 | FG26C0G2J182JNT06 |
| C0G | 2.2nF | ±5% | 630 | FG26C0G2J222JNT00 | FG26C0G2J222JNT06 |
| C0G | 2.7nF | ±5% | 630 | FG26C0G2J272JNT00 | FG26C0G2J272JNT06 |
| C0G | 3.3nF | ±5% | 630 | FG26C0G2J332JNT00 | FG26C0G2J332JNT06 |
| C0G | 3.9nF | ±5% | 630 | FG26C0G2J392JNT00 | FG26C0G2J392JNT06 |
| C0G | 4.7nF | ±5% | 630 | FG26C0G2J472JNT00 | FG26C0G2J472JNT06 |
| C0G | 5.6nF | ±5% | 630 | FG26C0G2J562JNT00 | FG26C0G2J562JNT06 |
| C0G | 6.8nF | ±5% | 630 | FG26C0G2J682JNT00 | FG26C0G2J682JNT06 |
| C0G | 8.2nF | ±5% | 630 | FG26C0G2J822JNT00 | FG26C0G2J822JNT06 |
| C0G | 10nF | ±5% | 630 | FG26C0G2J103JNT00 | FG26C0G2J103JNT06 |

■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

CAPACITORS



FG26 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 2 (TEMPERATURE STABLE)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| X5R | 33uF | ±20% | 25 | FG26X5R1E336MRT00 | FG26X5R1E336MRT06 |
| X5R | 6.8uF | ±10% | 50 | FG26X5R1H685KRT00 | FG26X5R1H685KRT06 |
| X5R | 10uF | ±10% | 50 | FG26X5R1H106KRT00 | FG26X5R1H106KRT06 |
| X7R | 1uF | ±10% | 25 | FG26X7R1E105KNT00 | FG26X7R1E105KNT06 |
| X7R | 1.5uF | ±10% | 25 | FG26X7R1E155KNT00 | FG26X7R1E155KNT06 |
| X7R | 2.2uF | ±10% | 25 | FG26X7R1E225KNT00 | FG26X7R1E225KNT06 |
| X7R | 6.8uF | ±10% | 25 | FG26X7R1E685KRT00 | FG26X7R1E685KRT06 |
| X7R | 10uF | ±10% | 25 | FG26X7R1E106KRT00 | FG26X7R1E106KRT06 |
| X7R | 470nF | ±10% | 50 | FG26X7R1H474KNT00 | FG26X7R1H474KNT06 |
| X7R | 680nF | ±10% | 50 | FG26X7R1H684KNT00 | FG26X7R1H684KNT06 |
| X7R | 3.3uF | ±10% | 50 | FG26X7R1H335KRT00 | FG26X7R1H335KRT06 |
| X7R | 4.7uF | ±10% | 50 | FG26X7R1H475KRT00 | FG26X7R1H475KRT06 |
| X7R | 150nF | ±10% | 100 | FG26X7R2A154KNT00 | FG26X7R2A154KNT06 |
| X7R | 220nF | ±10% | 100 | FG26X7R2A224KNT00 | FG26X7R2A224KNT06 |
| X7R | 330nF | ±10% | 100 | FG26X7R2A334KNT00 | FG26X7R2A334KNT06 |
| X7R | 470nF | ±10% | 100 | FG26X7R2A474KNT00 | FG26X7R2A474KNT06 |
| X7R | 680nF | ±10% | 100 | FG26X7R2A684KNT00 | FG26X7R2A684KNT06 |
| X7R | 1uF | ±10% | 100 | FG26X7R2A105KNT00 | FG26X7R2A105KNT06 |
| X7R | 33nF | ±10% | 250 | FG26X7R2E333KNT00 | FG26X7R2E333KNT06 |
| X7R | 47nF | ±10% | 250 | FG26X7R2E473KNT00 | FG26X7R2E473KNT06 |
| X7R | 68nF | ±10% | 250 | FG26X7R2E683KNT00 | FG26X7R2E683KNT06 |
| X7R | 100nF | ±10% | 250 | FG26X7R2E104KNT00 | FG26X7R2E104KNT06 |
| X7R | 1nF | ±10% | 630 | FG26X7R2J102KNT00 | FG26X7R2J102KNT06 |
| X7R | 1.5nF | ±10% | 630 | FG26X7R2J152KNT00 | FG26X7R2J152KNT06 |
| X7R | 2.2nF | ±10% | 630 | FG26X7R2J222KNT00 | FG26X7R2J222KNT06 |
| X7R | 3.3nF | ±10% | 630 | FG26X7R2J332KNT00 | FG26X7R2J332KNT06 |
| X7R | 4.7nF | ±10% | 630 | FG26X7R2J472KNT00 | FG26X7R2J472KNT06 |
| X7R | 6.8nF | ±10% | 630 | FG26X7R2J682KNT00 | FG26X7R2J682KNT06 |
| X7R | 10nF | ±10% | 630 | FG26X7R2J103KNT00 | FG26X7R2J103KNT06 |
| X7R | 15nF | ±10% | 630 | FG26X7R2J153KNT00 | FG26X7R2J153KNT06 |
| X7R | 22nF | ±10% | 630 | FG26X7R2J223KNT00 | FG26X7R2J223KNT06 |
| X7R | 33nF | ±10% | 630 | FG26X7R2J333KNT00 | FG26X7R2J333KNT06 |
| X7S | 1.5uF | ±10% | 100 | FG26X7S2A155KRT00 | FG26X7S2A155KRT06 |
| X7S | 2.2uF | ±10% | 100 | FG26X7S2A225KRT00 | FG26X7S2A225KRT06 |
| X7S | 3.3uF | ±10% | 100 | FG26X7S2A335KRT00 | FG26X7S2A335KRT06 |
| X7T | 150nF | ±10% | 250 | FG26X7T2E154KNT00 | FG26X7T2E154KNT06 |
| X7T | 220nF | ±10% | 250 | FG26X7T2E224KNT00 | FG26X7T2E224KNT06 |

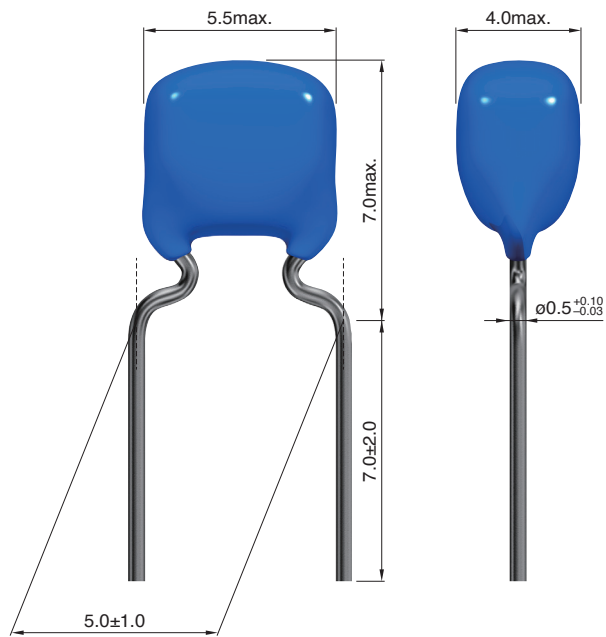
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

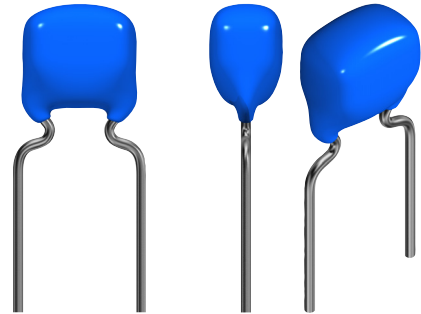
* The part numbers are TDK's standard specification products.

FG20 type

SHAPE & DIMENSIONS



Dimensions in mm



CAPACITORS



FG20 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|--------------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 47nF | ±5% | 100 | FG20C0G2A473JNT00 | FG20C0G2A473JNT06 |
| C0G | 68nF | ±5% | 100 | FG20C0G2A683JNT00 | FG20C0G2A683JNT06 |
| C0G | 33nF | ±5% | 250 | FG20C0G2E333JNT00 | FG20C0G2E333JNT06 |
| C0G | 47nF | ±5% | 250 | FG20C0G2E473JNT00 | FG20C0G2E473JNT06 |
| C0G | 22nF | ±5% | 450 | FG20C0G2W223JNT00 | FG20C0G2W223JNT06 |
| C0G | 33nF | ±5% | 450 | FG20C0G2W333JNT00 | FG20C0G2W333JNT06 |
| C0G | 15nF | ±5% | 630 | FG20C0G2J153JNT00 | FG20C0G2J153JNT06 |
| C0G | 22nF | ±5% | 630 | FG20C0G2J223JNT00 | FG20C0G2J223JNT06 |
| C0G | 33nF | ±5% | 630 | FG20C0G2J333JNT00 | FG20C0G2J333JNT06 |

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

CLASS 2 (TEMPERATURE STABLE)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|--------------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| X7R | 15uF | ±20% | 16 | FG20X7R1C156MRT00 | FG20X7R1C156MRT06 |
| X7R | 22uF | ±20% | 16 | FG20X7R1C226MRT00 | FG20X7R1C226MRT06 |
| X7R | 3.3uF | ±10% | 25 | FG20X7R1E335KNT00 | FG20X7R1E335KNT06 |
| X7R | 4.7uF | ±10% | 25 | FG20X7R1E475KNT00 | FG20X7R1E475KNT06 |
| X7R | 1uF | ±10% | 50 | FG20X7R1H105KNT00 | FG20X7R1H105KNT06 |
| X7R | 1.5uF | ±10% | 50 | FG20X7R1H155KNT00 | FG20X7R1H155KNT06 |
| X7R | 10uF | ±10% | 50 | FG20X7R1H106KRT00 | FG20X7R1H106KRT06 |
| X7R | 1.5uF | ±10% | 100 | FG20X7R2A155KRT00 | FG20X7R2A155KRT06 |
| X7R | 2.2uF | ±10% | 100 | FG20X7R2A225KRT00 | FG20X7R2A225KRT06 |
| X7R | 150nF | ±10% | 250 | FG20X7R2E154KNT00 | FG20X7R2E154KNT06 |
| X7R | 220nF | ±10% | 250 | FG20X7R2E224KNT00 | FG20X7R2E224KNT06 |
| X7R | 47nF | ±10% | 630 | FG20X7R2J473KNT00 | FG20X7R2J473KNT06 |
| X7R | 68nF | ±10% | 630 | FG20X7R2J683KNT00 | FG20X7R2J683KNT06 |
| X7S | 6.8uF | ±10% | 50 | FG20X7S1H685KRT00 | FG20X7S1H685KRT06 |
| X7S | 10uF | ±10% | 50 | FG20X7S1H106KRT00 | FG20X7S1H106KRT06 |
| X7S | 4.7uF | ±10% | 100 | FG20X7S2A475KRT00 | FG20X7S2A475KRT06 |
| X7T | 330nF | ±10% | 250 | FG20X7T2E334KNT00 | FG20X7T2E334KNT06 |

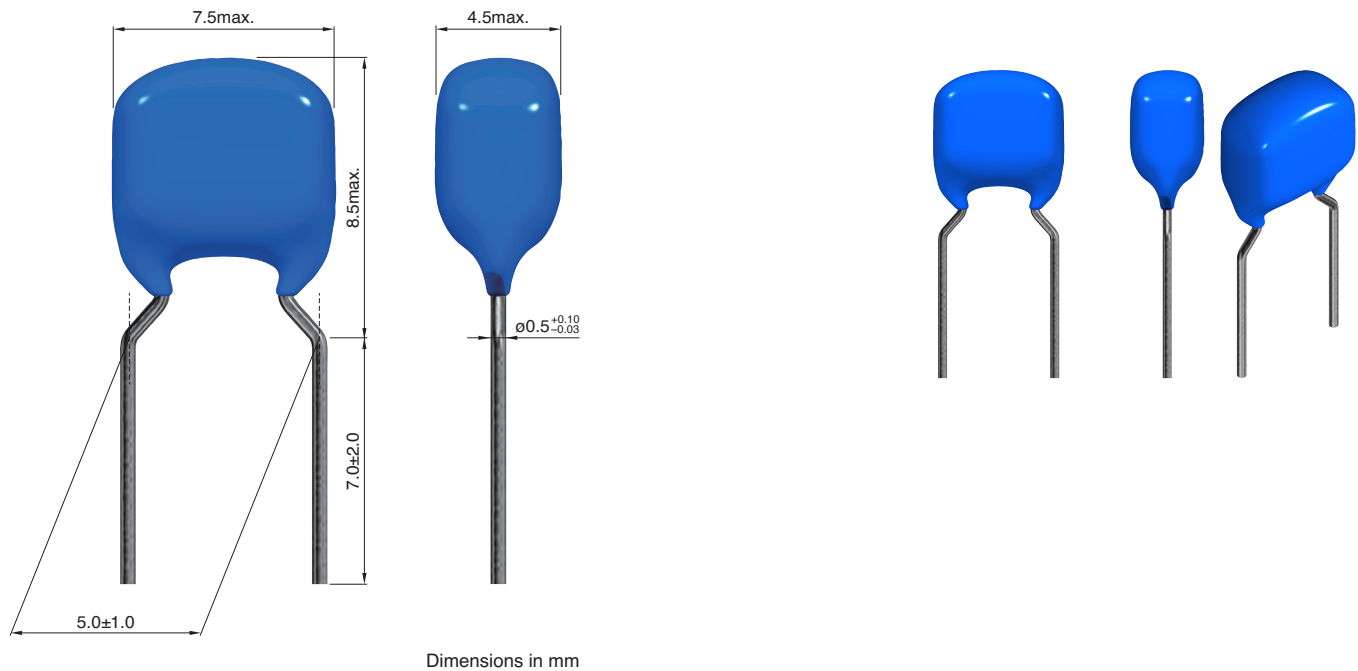
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

FG22 type

■ SHAPE & DIMENSIONS



CAPACITORS



FG22 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 150nF | ±5% | 50 | FG22C0G1H154JNT00 | FG22C0G1H154JNT06 |
| C0G | 220nF | ±5% | 50 | FG22C0G1H224JNT00 | FG22C0G1H224JNT06 |
| C0G | 100nF | ±5% | 100 | FG22C0G2A104JNT00 | FG22C0G2A104JNT06 |
| C0G | 68nF | ±5% | 250 | FG22C0G2E683JRT00 | FG22C0G2E683JRT06 |
| C0G | 100nF | ±5% | 250 | FG22C0G2E104JRT00 | FG22C0G2E104JRT06 |
| C0G | 47nF | ±5% | 450 | FG22C0G2W473JNT00 | FG22C0G2W473JNT06 |
| C0G | 68nF | ±5% | 450 | FG22C0G2W683JNT00 | FG22C0G2W683JNT06 |
| C0G | 47nF | ±5% | 630 | FG22C0G2J473JNT00 | FG22C0G2J473JNT06 |

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

CLASS 2 (TEMPERATURE STABLE)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| X5R | 47uF | ±20% | 10 | FG22X5R1A476MNT00 | FG22X5R1A476MNT06 |
| X5R | 33uF | ±20% | 16 | FG22X5R1C336MNT00 | FG22X5R1C336MNT06 |
| X7R | 33uF | ±20% | 16 | FG22X7R1C336MRT00 | FG22X7R1C336MRT06 |
| X7R | 10uF | ±10% | 25 | FG22X7R1E106KNT00 | FG22X7R1E106KNT06 |
| X7R | 15uF | ±20% | 25 | FG22X7R1E156MRT00 | FG22X7R1E156MRT06 |
| X7R | 22uF | ±20% | 25 | FG22X7R1E226MRT00 | FG22X7R1E226MRT06 |
| X7R | 2.2uF | ±10% | 50 | FG22X7R1H225KNT00 | FG22X7R1H225KNT06 |
| X7R | 3.3uF | ±10% | 50 | FG22X7R1H335KNT00 | FG22X7R1H335KNT06 |
| X7R | 6.8uF | ±10% | 50 | FG22X7R1H685KRT00 | FG22X7R1H685KRT06 |
| X7R | 1.5uF | ±10% | 100 | FG22X7R2A155KNT00 | FG22X7R2A155KNT06 |
| X7R | 2.2uF | ±10% | 100 | FG22X7R2A225KNT00 | FG22X7R2A225KNT06 |
| X7R | 330nF | ±10% | 250 | FG22X7R2E334KNT00 | FG22X7R2E334KNT06 |
| X7R | 470nF | ±10% | 250 | FG22X7R2E474KNT00 | FG22X7R2E474KNT06 |
| X7R | 100nF | ±10% | 630 | FG22X7R2J104KNT00 | FG22X7R2J104KNT06 |
| X7T | 680nF | ±10% | 250 | FG22X7T2E684KNT00 | FG22X7T2E684KNT06 |
| X7T | 1uF | ±10% | 250 | FG22X7T2E105KNT00 | FG22X7T2E105KNT06 |

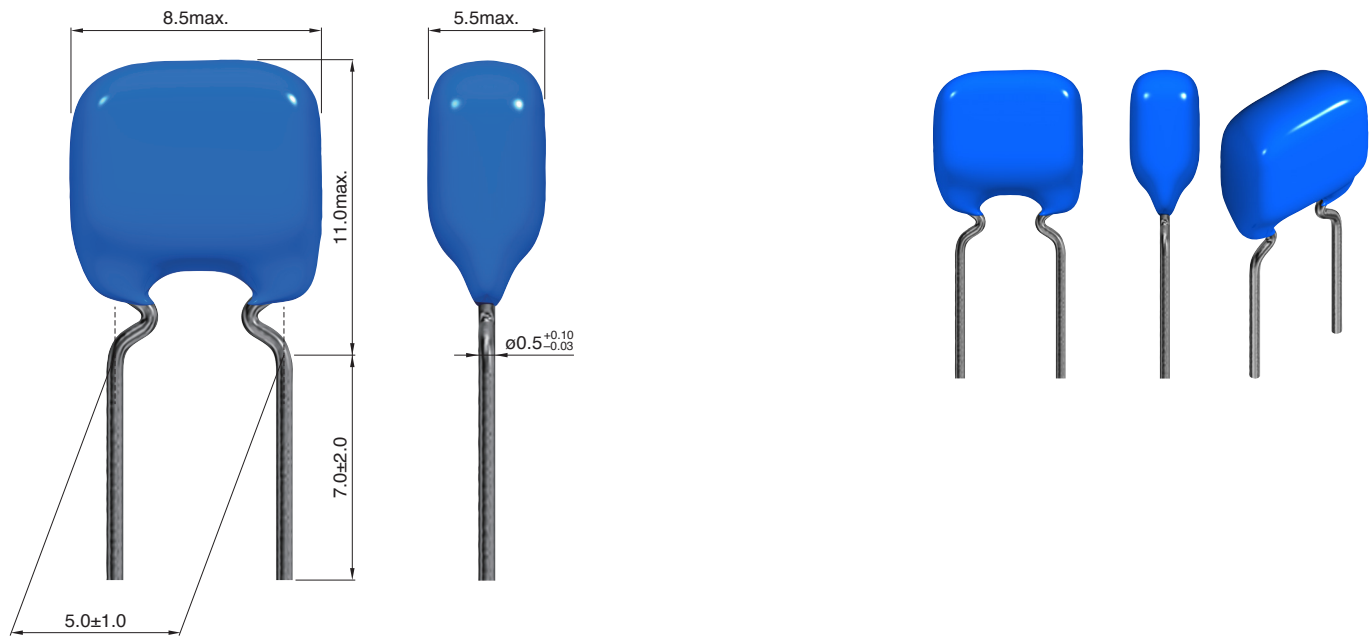
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

FG23 type

SHAPE & DIMENSIONS



Dimensions in mm

FG23 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 150nF | ±5% | 100 | FG23C0G2A154JNT00 | FG23C0G2A154JNT06 |
| C0G | 150nF | ±5% | 250 | FG23C0G2E154JRT00 | FG23C0G2E154JRT06 |
| C0G | 100nF | ±5% | 450 | FG23C0G2W104JNT00 | FG23C0G2W104JNT06 |
| C0G | 68nF | ±5% | 630 | FG23C0G2J683JRT00 | FG23C0G2J683JRT06 |
| C0G | 100nF | ±5% | 630 | FG23C0G2J104JRT00 | FG23C0G2J104JRT06 |

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

CLASS 2 (TEMPERATURE STABLE)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| X7R | 47µF | ±20% | 16 | FG23X7R1C476MRT00 | FG23X7R1C476MRT06 |
| X7R | 22µF | ±20% | 25 | FG23X7R1E226MNT00 | FG23X7R1E226MNT06 |
| X7R | 10µF | ±10% | 50 | FG23X7R1H106KRT00 | FG23X7R1H106KRT06 |
| X7R | 3.3µF | ±10% | 100 | FG23X7R2A335KNT00 | FG23X7R2A335KNT06 |
| X7R | 4.7µF | ±10% | 100 | FG23X7R2A475KNT00 | FG23X7R2A475KNT06 |
| X7R | 680nF | ±10% | 250 | FG23X7R2E684KNT00 | FG23X7R2E684KNT06 |
| X7R | 1µF | ±10% | 250 | FG23X7R2E105KNT00 | FG23X7R2E105KNT06 |
| X7R | 150nF | ±10% | 630 | FG23X7R2J154KNT00 | FG23X7R2J154KNT06 |
| X7R | 220nF | ±10% | 630 | FG23X7R2J224KNT00 | FG23X7R2J224KNT06 |
| X7S | 6.8µF | ±10% | 100 | FG23X7S2A685KRT00 | FG23X7S2A685KRT06 |
| X7S | 10µF | ±10% | 100 | FG23X7S2A106KRT00 | FG23X7S2A106KRT06 |
| X7S | 15µF | ±20% | 100 | FG23X7S2A156MRT00 | FG23X7S2A156MRT06 |
| X7T | 1.5µF | ±10% | 250 | FG23X7T2E155KNT00 | FG23X7T2E155KNT06 |
| X7T | 2.2µF | ±10% | 250 | FG23X7T2E225KNT00 | FG23X7T2E225KNT06 |

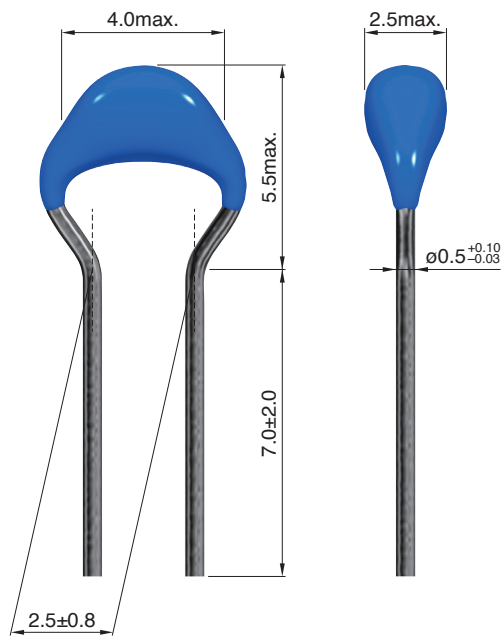
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

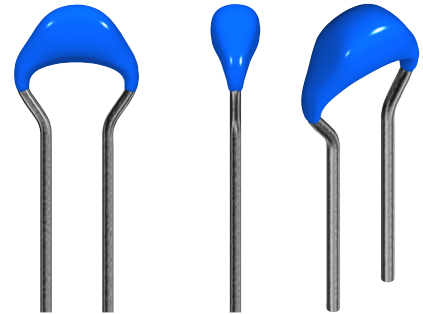
* The part numbers are TDK's standard specification products.

FG18 type

SHAPE & DIMENSIONS



Dimensions in mm



CAPACITORS 

FG18 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 1.0pF | ±0.25pF | 50 | FG18C0G1H010CNT00 | FG18C0G1H010CNT06 |
| C0G | 1.5pF | ±0.25pF | 50 | FG18C0G1H1R5CNT00 | FG18C0G1H1R5CNT06 |
| C0G | 2.0pF | ±0.25pF | 50 | FG18C0G1H020CNT00 | FG18C0G1H020CNT06 |
| C0G | 2.2pF | ±0.25pF | 50 | FG18C0G1H2R2CNT00 | FG18C0G1H2R2CNT06 |
| C0G | 3.0pF | ±0.25pF | 50 | FG18C0G1H030CNT00 | FG18C0G1H030CNT06 |
| C0G | 3.3pF | ±0.25pF | 50 | FG18C0G1H3R3CNT00 | FG18C0G1H3R3CNT06 |
| C0G | 4.0pF | ±0.25pF | 50 | FG18C0G1H040CNT00 | FG18C0G1H040CNT06 |
| C0G | 4.7pF | ±0.25pF | 50 | FG18C0G1H4R7CNT00 | FG18C0G1H4R7CNT06 |
| C0G | 5.0pF | ±0.25pF | 50 | FG18C0G1H050CNT00 | FG18C0G1H050CNT06 |
| C0G | 6.0pF | ±0.5pF | 50 | FG18C0G1H060DNT00 | FG18C0G1H060DNT06 |
| C0G | 6.8pF | ±0.5pF | 50 | FG18C0G1H6R8DNT00 | FG18C0G1H6R8DNT06 |
| C0G | 7.0pF | ±0.5pF | 50 | FG18C0G1H070DNT00 | FG18C0G1H070DNT06 |
| C0G | 8.0pF | ±0.5pF | 50 | FG18C0G1H080DNT00 | FG18C0G1H080DNT06 |
| C0G | 9.0pF | ±0.5pF | 50 | FG18C0G1H090DNT00 | FG18C0G1H090DNT06 |
| C0G | 10pF | ±0.5pF | 50 | FG18C0G1H100DNT00 | FG18C0G1H100DNT06 |
| C0G | 12pF | ±5% | 50 | FG18C0G1H120JNT00 | FG18C0G1H120JNT06 |
| C0G | 15pF | ±5% | 50 | FG18C0G1H150JNT00 | FG18C0G1H150JNT06 |
| C0G | 18pF | ±5% | 50 | FG18C0G1H180JNT00 | FG18C0G1H180JNT06 |
| C0G | 22pF | ±5% | 50 | FG18C0G1H220JNT00 | FG18C0G1H220JNT06 |
| C0G | 27pF | ±5% | 50 | FG18C0G1H270JNT00 | FG18C0G1H270JNT06 |
| C0G | 33pF | ±5% | 50 | FG18C0G1H330JNT00 | FG18C0G1H330JNT06 |
| C0G | 39pF | ±5% | 50 | FG18C0G1H390JNT00 | FG18C0G1H390JNT06 |
| C0G | 47pF | ±5% | 50 | FG18C0G1H470JNT00 | FG18C0G1H470JNT06 |
| C0G | 56pF | ±5% | 50 | FG18C0G1H560JNT00 | FG18C0G1H560JNT06 |
| C0G | 68pF | ±5% | 50 | FG18C0G1H680JNT00 | FG18C0G1H680JNT06 |
| C0G | 82pF | ±5% | 50 | FG18C0G1H820JNT00 | FG18C0G1H820JNT06 |
| C0G | 100pF | ±5% | 50 | FG18C0G1H101JNT00 | FG18C0G1H101JNT06 |
| C0G | 120pF | ±5% | 50 | FG18C0G1H121JNT00 | FG18C0G1H121JNT06 |
| C0G | 150pF | ±5% | 50 | FG18C0G1H151JNT00 | FG18C0G1H151JNT06 |
| C0G | 180pF | ±5% | 50 | FG18C0G1H181JNT00 | FG18C0G1H181JNT06 |
| C0G | 220pF | ±5% | 50 | FG18C0G1H221JNT00 | FG18C0G1H221JNT06 |
| C0G | 270pF | ±5% | 50 | FG18C0G1H271JNT00 | FG18C0G1H271JNT06 |
| C0G | 330pF | ±5% | 50 | FG18C0G1H331JNT00 | FG18C0G1H331JNT06 |
| C0G | 390pF | ±5% | 50 | FG18C0G1H391JNT00 | FG18C0G1H391JNT06 |
| C0G | 470pF | ±5% | 50 | FG18C0G1H471JNT00 | FG18C0G1H471JNT06 |
| C0G | 560pF | ±5% | 50 | FG18C0G1H561JNT00 | FG18C0G1H561JNT06 |
| C0G | 680pF | ±5% | 50 | FG18C0G1H681JNT00 | FG18C0G1H681JNT06 |
| C0G | 820pF | ±5% | 50 | FG18C0G1H821JNT00 | FG18C0G1H821JNT06 |
| C0G | 1nF | ±5% | 50 | FG18C0G1H102JNT00 | FG18C0G1H102JNT06 |
| C0G | 1.2nF | ±5% | 50 | FG18C0G1H122JNT00 | FG18C0G1H122JNT06 |
| C0G | 1.5nF | ±5% | 50 | FG18C0G1H152JNT00 | FG18C0G1H152JNT06 |
| C0G | 1.8nF | ±5% | 50 | FG18C0G1H182JNT00 | FG18C0G1H182JNT06 |
| C0G | 2.2nF | ±5% | 50 | FG18C0G1H222JNT00 | FG18C0G1H222JNT06 |
| C0G | 2.7nF | ±5% | 50 | FG18C0G1H272JNT00 | FG18C0G1H272JNT06 |
| C0G | 3.3nF | ±5% | 50 | FG18C0G1H332JNT00 | FG18C0G1H332JNT06 |
| C0G | 3.9nF | ±5% | 50 | FG18C0G1H392JNT00 | FG18C0G1H392JNT06 |
| C0G | 4.7nF | ±5% | 50 | FG18C0G1H472JNT00 | FG18C0G1H472JNT06 |
| C0G | 5.6nF | ±5% | 50 | FG18C0G1H562JNT00 | FG18C0G1H562JNT06 |
| C0G | 6.8nF | ±5% | 50 | FG18C0G1H682JNT00 | FG18C0G1H682JNT06 |
| C0G | 8.2nF | ±5% | 50 | FG18C0G1H822JNT00 | FG18C0G1H822JNT06 |

■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

CAPACITORS

FG18 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE


CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 10nF | ±5% | 50 | FG18C0G1H103JNT00 | FG18C0G1H103JNT06 |
| C0G | 1.0pF | ±0.25pF | 100 | FG18C0G2A010CNT00 | FG18C0G2A010CNT06 |
| C0G | 1.5pF | ±0.25pF | 100 | FG18C0G2A1R5CNT00 | FG18C0G2A1R5CNT06 |
| C0G | 2.0pF | ±0.25pF | 100 | FG18C0G2A020CNT00 | FG18C0G2A020CNT06 |
| C0G | 2.2pF | ±0.25pF | 100 | FG18C0G2A2R2CNT00 | FG18C0G2A2R2CNT06 |
| C0G | 3.0pF | ±0.25pF | 100 | FG18C0G2A030CNT00 | FG18C0G2A030CNT06 |
| C0G | 3.3pF | ±0.25pF | 100 | FG18C0G2A3R3CNT00 | FG18C0G2A3R3CNT06 |
| C0G | 4.0pF | ±0.25pF | 100 | FG18C0G2A040CNT00 | FG18C0G2A040CNT06 |
| C0G | 4.7pF | ±0.25pF | 100 | FG18C0G2A4R7CNT00 | FG18C0G2A4R7CNT06 |
| C0G | 5.0pF | ±0.25pF | 100 | FG18C0G2A050CNT00 | FG18C0G2A050CNT06 |
| C0G | 6.0pF | ±0.5pF | 100 | FG18C0G2A060DNT00 | FG18C0G2A060DNT06 |
| C0G | 6.8pF | ±0.5pF | 100 | FG18C0G2A6R8DNT00 | FG18C0G2A6R8DNT06 |
| C0G | 7.0pF | ±0.5pF | 100 | FG18C0G2A070DNT00 | FG18C0G2A070DNT06 |
| C0G | 8.0pF | ±0.5pF | 100 | FG18C0G2A080DNT00 | FG18C0G2A080DNT06 |
| C0G | 9.0pF | ±0.5pF | 100 | FG18C0G2A090DNT00 | FG18C0G2A090DNT06 |
| C0G | 10pF | ±0.5pF | 100 | FG18C0G2A100DNT00 | FG18C0G2A100DNT06 |
| C0G | 12pF | ±5% | 100 | FG18C0G2A120JNT00 | FG18C0G2A120JNT06 |
| C0G | 15pF | ±5% | 100 | FG18C0G2A150JNT00 | FG18C0G2A150JNT06 |
| C0G | 18pF | ±5% | 100 | FG18C0G2A180JNT00 | FG18C0G2A180JNT06 |
| C0G | 22pF | ±5% | 100 | FG18C0G2A220JNT00 | FG18C0G2A220JNT06 |
| C0G | 27pF | ±5% | 100 | FG18C0G2A270JNT00 | FG18C0G2A270JNT06 |
| C0G | 33pF | ±5% | 100 | FG18C0G2A330JNT00 | FG18C0G2A330JNT06 |
| C0G | 39pF | ±5% | 100 | FG18C0G2A390JNT00 | FG18C0G2A390JNT06 |
| C0G | 47pF | ±5% | 100 | FG18C0G2A470JNT00 | FG18C0G2A470JNT06 |
| C0G | 56pF | ±5% | 100 | FG18C0G2A560JNT00 | FG18C0G2A560JNT06 |
| C0G | 68pF | ±5% | 100 | FG18C0G2A680JNT00 | FG18C0G2A680JNT06 |
| C0G | 82pF | ±5% | 100 | FG18C0G2A820JNT00 | FG18C0G2A820JNT06 |
| C0G | 100pF | ±5% | 100 | FG18C0G2A101JNT00 | FG18C0G2A101JNT06 |
| C0G | 120pF | ±5% | 100 | FG18C0G2A121JNT00 | FG18C0G2A121JNT06 |
| C0G | 150pF | ±5% | 100 | FG18C0G2A151JNT00 | FG18C0G2A151JNT06 |
| C0G | 180pF | ±5% | 100 | FG18C0G2A181JNT00 | FG18C0G2A181JNT06 |
| C0G | 220pF | ±5% | 100 | FG18C0G2A221JNT00 | FG18C0G2A221JNT06 |
| C0G | 270pF | ±5% | 100 | FG18C0G2A271JNT00 | FG18C0G2A271JNT06 |
| C0G | 330pF | ±5% | 100 | FG18C0G2A331JNT00 | FG18C0G2A331JNT06 |
| C0G | 390pF | ±5% | 100 | FG18C0G2A391JNT00 | FG18C0G2A391JNT06 |
| C0G | 470pF | ±5% | 100 | FG18C0G2A471JNT00 | FG18C0G2A471JNT06 |
| C0G | 560pF | ±5% | 100 | FG18C0G2A561JNT00 | FG18C0G2A561JNT06 |
| C0G | 680pF | ±5% | 100 | FG18C0G2A681JNT00 | FG18C0G2A681JNT06 |
| C0G | 820pF | ±5% | 100 | FG18C0G2A821JNT00 | FG18C0G2A821JNT06 |
| C0G | 1nF | ±5% | 100 | FG18C0G2A102JNT00 | FG18C0G2A102JNT06 |
| C0G | 1.2nF | ±5% | 100 | FG18C0G2A122JNT00 | FG18C0G2A122JNT06 |
| C0G | 1.5nF | ±5% | 100 | FG18C0G2A152JNT00 | FG18C0G2A152JNT06 |
| C0G | 1.8nF | ±5% | 100 | FG18C0G2A182JNT00 | FG18C0G2A182JNT06 |
| C0G | 2.2nF | ±5% | 100 | FG18C0G2A222JNT00 | FG18C0G2A222JNT06 |
| C0G | 2.7nF | ±5% | 100 | FG18C0G2A272JNT00 | FG18C0G2A272JNT06 |
| C0G | 3.3nF | ±5% | 100 | FG18C0G2A332JNT00 | FG18C0G2A332JNT06 |
| C0G | 3.9nF | ±5% | 100 | FG18C0G2A392JRT00 | FG18C0G2A392JRT06 |
| C0G | 4.7nF | ±5% | 100 | FG18C0G2A472JRT00 | FG18C0G2A472JRT06 |
| C0G | 5.6nF | ±5% | 100 | FG18C0G2A562JRT00 | FG18C0G2A562JRT06 |
| C0G | 6.8nF | ±5% | 100 | FG18C0G2A682JRT00 | FG18C0G2A682JRT06 |
| C0G | 8.2nF | ±5% | 100 | FG18C0G2A822JRT00 | FG18C0G2A822JRT06 |
| C0G | 10nF | ±5% | 100 | FG18C0G2A103JRT00 | FG18C0G2A103JRT06 |

■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

 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.

CAPACITORS



FG18 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 2 (TEMPERATURE STABLE)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| X5R | 1.5uF | ±10% | 25 | FG18X5R1E155KRT00 | FG18X5R1E155KRT06 |
| X5R | 2.2uF | ±10% | 25 | FG18X5R1E225KRT00 | FG18X5R1E225KRT06 |
| X5R | 3.3uF | ±10% | 25 | FG18X5R1E335KRT00 | FG18X5R1E335KRT06 |
| X5R | 4.7uF | ±10% | 25 | FG18X5R1E475KRT00 | FG18X5R1E475KRT06 |
| X5R | 6.8uF | ±10% | 25 | FG18X5R1E685KRT00 | FG18X5R1E685KRT06 |
| X5R | 10uF | ±20% | 25 | FG18X5R1E106MRT00 | FG18X5R1E106MRT06 |
| X5R | 680nF | ±10% | 50 | FG18X5R1H684KRT00 | FG18X5R1H684KRT06 |
| X5R | 1uF | ±10% | 50 | FG18X5R1H105KRT00 | FG18X5R1H105KRT06 |
| X7R | 1.5uF | ±10% | 10 | FG18X7R1A155KRT00 | FG18X7R1A155KRT06 |
| X7R | 2.2uF | ±10% | 10 | FG18X7R1A225KRT00 | FG18X7R1A225KRT06 |
| X7R | 150nF | ±10% | 25 | FG18X7R1E154KNT00 | FG18X7R1E154KNT06 |
| X7R | 680nF | ±10% | 25 | FG18X7R1E684KRT00 | FG18X7R1E684KRT06 |
| X7R | 1uF | ±10% | 25 | FG18X7R1E105KRT00 | FG18X7R1E105KRT06 |
| X7R | 1nF | ±10% | 50 | FG18X7R1H102KNT00 | FG18X7R1H102KNT06 |
| X7R | 1.5nF | ±10% | 50 | FG18X7R1H152KNT00 | FG18X7R1H152KNT06 |
| X7R | 2.2nF | ±10% | 50 | FG18X7R1H222KNT00 | FG18X7R1H222KNT06 |
| X7R | 3.3nF | ±10% | 50 | FG18X7R1H332KNT00 | FG18X7R1H332KNT06 |
| X7R | 4.7nF | ±10% | 50 | FG18X7R1H472KNT00 | FG18X7R1H472KNT06 |
| X7R | 6.8nF | ±10% | 50 | FG18X7R1H682KNT00 | FG18X7R1H682KNT06 |
| X7R | 10nF | ±10% | 50 | FG18X7R1H103KNT00 | FG18X7R1H103KNT06 |
| X7R | 15nF | ±10% | 50 | FG18X7R1H153KNT00 | FG18X7R1H153KNT06 |
| X7R | 22nF | ±10% | 50 | FG18X7R1H223KNT00 | FG18X7R1H223KNT06 |
| X7R | 33nF | ±10% | 50 | FG18X7R1H333KNT00 | FG18X7R1H333KNT06 |
| X7R | 47nF | ±10% | 50 | FG18X7R1H473KNT00 | FG18X7R1H473KNT06 |
| X7R | 68nF | ±10% | 50 | FG18X7R1H683KNT00 | FG18X7R1H683KNT06 |
| X7R | 100nF | ±10% | 50 | FG18X7R1H104KNT00 | FG18X7R1H104KNT06 |
| X7R | 150nF | ±10% | 50 | FG18X7R1H154KRT00 | FG18X7R1H154KRT06 |
| X7R | 220nF | ±10% | 50 | FG18X7R1H224KRT00 | FG18X7R1H224KRT06 |
| X7R | 330nF | ±10% | 50 | FG18X7R1H334KRT00 | FG18X7R1H334KRT06 |
| X7R | 470nF | ±10% | 50 | FG18X7R1H474KRT00 | FG18X7R1H474KRT06 |
| X7R | 1nF | ±10% | 100 | FG18X7R2A102KNT00 | FG18X7R2A102KNT06 |
| X7R | 1.5nF | ±10% | 100 | FG18X7R2A152KNT00 | FG18X7R2A152KNT06 |
| X7R | 2.2nF | ±10% | 100 | FG18X7R2A222KNT00 | FG18X7R2A222KNT06 |
| X7R | 3.3nF | ±10% | 100 | FG18X7R2A332KNT00 | FG18X7R2A332KNT06 |
| X7R | 4.7nF | ±10% | 100 | FG18X7R2A472KNT00 | FG18X7R2A472KNT06 |
| X7R | 6.8nF | ±10% | 100 | FG18X7R2A682KNT00 | FG18X7R2A682KNT06 |
| X7R | 10nF | ±10% | 100 | FG18X7R2A103KNT00 | FG18X7R2A103KNT06 |
| X7R | 15nF | ±10% | 100 | FG18X7R2A153KNT00 | FG18X7R2A153KNT06 |
| X7R | 22nF | ±10% | 100 | FG18X7R2A223KNT00 | FG18X7R2A223KNT06 |
| X7S | 33nF | ±10% | 100 | FG18X7S2A333KRT00 | FG18X7S2A333KRT06 |
| X7S | 47nF | ±10% | 100 | FG18X7S2A473KRT00 | FG18X7S2A473KRT06 |
| X7S | 68nF | ±10% | 100 | FG18X7S2A683KRT00 | FG18X7S2A683KRT06 |
| X7S | 100nF | ±10% | 100 | FG18X7S2A104KRT00 | FG18X7S2A104KRT06 |

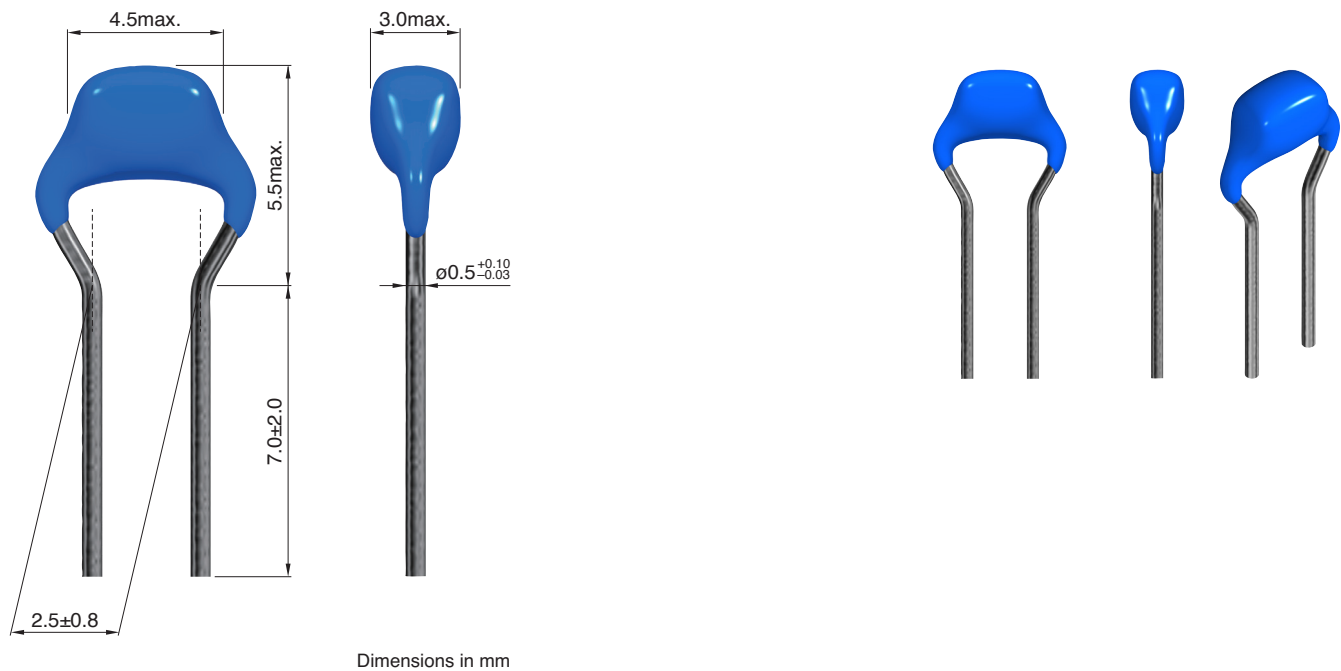
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

FG14 type

■ SHAPE & DIMENSIONS



CAPACITORS



FG14 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 15nF | ±5% | 50 | FG14C0G1H153JNT00 | FG14C0G1H153JNT06 |
| C0G | 22nF | ±5% | 50 | FG14C0G1H223JNT00 | FG14C0G1H223JNT06 |
| C0G | 33nF | ±5% | 50 | FG14C0G1H333JNT00 | FG14C0G1H333JNT06 |
| C0G | 3.9nF | ±5% | 100 | FG14C0G2A392JNT00 | FG14C0G2A392JNT06 |
| C0G | 4.7nF | ±5% | 100 | FG14C0G2A472JNT00 | FG14C0G2A472JNT06 |
| C0G | 5.6nF | ±5% | 100 | FG14C0G2A562JNT00 | FG14C0G2A562JNT06 |
| C0G | 6.8nF | ±5% | 100 | FG14C0G2A682JNT00 | FG14C0G2A682JNT06 |
| C0G | 8.2nF | ±5% | 100 | FG14C0G2A822JNT00 | FG14C0G2A822JNT06 |
| C0G | 10nF | ±5% | 100 | FG14C0G2A103JNT00 | FG14C0G2A103JNT06 |
| C0G | 15nF | ±5% | 100 | FG14C0G2A153JRT00 | FG14C0G2A153JRT06 |
| C0G | 22nF | ±5% | 100 | FG14C0G2A223JRT00 | FG14C0G2A223JRT06 |
| C0G | 33nF | ±5% | 100 | FG14C0G2A333JRT00 | FG14C0G2A333JRT06 |

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

CLASS 2 (TEMPERATURE STABLE)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|-----------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| X5R | 15uF | ±20% | 25 | FG14X5R1E156MRT00 | FG14X5R1E156MRT06 |
| X5R | 3.3uF | ±10% | 50 | FG14X5R1H335KRT00 | FG14X5R1H335KRT06 |
| X5R | 4.7uF | ±10% | 50 | FG14X5R1H475KRT00 | FG14X5R1H475KRT06 |
| X7R | 6.8uF | ±10% | 10 | FG14X7R1A685KRT00 | FG14X7R1A685KRT06 |
| X7R | 10uF | ±10% | 10 | FG14X7R1A106KRT00 | FG14X7R1A106KRT06 |
| X7R | 680nF | ±10% | 16 | FG14X7R1C684KNT00 | FG14X7R1C684KNT06 |
| X7R | 470nF | ±10% | 25 | FG14X7R1E474KNT00 | FG14X7R1E474KNT06 |
| X7R | 3.3uF | ±10% | 25 | FG14X7R1E335KRT00 | FG14X7R1E335KRT06 |
| X7R | 4.7uF | ±10% | 25 | FG14X7R1E475KRT00 | FG14X7R1E475KRT06 |
| X7R | 150nF | ±10% | 50 | FG14X7R1H154KNT00 | FG14X7R1H154KNT06 |
| X7R | 220nF | ±10% | 50 | FG14X7R1H224KNT00 | FG14X7R1H224KNT06 |
| X7R | 330nF | ±10% | 50 | FG14X7R1H334KNT00 | FG14X7R1H334KNT06 |
| X7R | 680nF | ±10% | 50 | FG14X7R1H684KRT00 | FG14X7R1H684KRT06 |
| X7R | 1uF | ±10% | 50 | FG14X7R1H105KRT00 | FG14X7R1H105KRT06 |
| X7R | 1.5uF | ±10% | 50 | FG14X7R1H155KRT00 | FG14X7R1H155KRT06 |
| X7R | 2.2uF | ±10% | 50 | FG14X7R1H225KRT00 | FG14X7R1H225KRT06 |
| X7R | 33nF | ±10% | 100 | FG14X7R2A333KNT00 | FG14X7R2A333KNT06 |
| X7R | 47nF | ±10% | 100 | FG14X7R2A473KNT00 | FG14X7R2A473KNT06 |
| X7R | 68nF | ±10% | 100 | FG14X7R2A683KNT00 | FG14X7R2A683KNT06 |
| X7R | 100nF | ±10% | 100 | FG14X7R2A104KNT00 | FG14X7R2A104KNT06 |
| X7S | 150nF | ±10% | 100 | FG14X7S2A154KRT00 | FG14X7S2A154KRT06 |
| X7S | 220nF | ±10% | 100 | FG14X7S2A224KRT00 | FG14X7S2A224KRT06 |
| X7S | 330nF | ±10% | 100 | FG14X7S2A334KRT00 | FG14X7S2A334KRT06 |
| X7S | 470nF | ±10% | 100 | FG14X7S2A474KRT00 | FG14X7S2A474KRT06 |
| X7S | 680nF | ±10% | 100 | FG14X7S2A684KRT00 | FG14X7S2A684KRT06 |
| X7S | 1uF | ±10% | 100 | FG14X7S2A105KRT00 | FG14X7S2A105KRT06 |

■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

FG16 type

SHAPE & DIMENSIONS



CAPACITORS



FG16 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|--------------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 47nF | ±5% | 50 | FG16C0G1H473JNT00 | FG16C0G1H473JNT06 |
| C0G | 68nF | ±5% | 50 | FG16C0G1H683JNT00 | FG16C0G1H683JNT06 |
| C0G | 100nF | ±5% | 50 | FG16C0G1H104JNT00 | FG16C0G1H104JNT06 |
| C0G | 15nF | ±5% | 100 | FG16C0G2A153JNT00 | FG16C0G2A153JNT06 |
| C0G | 22nF | ±5% | 100 | FG16C0G2A223JNT00 | FG16C0G2A223JNT06 |
| C0G | 33nF | ±5% | 100 | FG16C0G2A333JNT00 | FG16C0G2A333JNT06 |
| C0G | 47nF | ±5% | 100 | FG16C0G2A473JRT00 | FG16C0G2A473JRT06 |
| C0G | 68nF | ±5% | 100 | FG16C0G2A683JRT00 | FG16C0G2A683JRT06 |
| C0G | 100nF | ±5% | 100 | FG16C0G2A104JRT00 | FG16C0G2A104JRT06 |

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

CLASS 2 (TEMPERATURE STABLE)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|--------------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| X5R | 33uF | ±20% | 25 | FG16X5R1E336MRT00 | FG16X5R1E336MRT06 |
| X5R | 6.8uF | ±10% | 50 | FG16X5R1H685KRT00 | FG16X5R1H685KRT06 |
| X5R | 10uF | ±10% | 50 | FG16X5R1H106KRT00 | FG16X5R1H106KRT06 |
| X7R | 1uF | ±10% | 25 | FG16X7R1E105KNT00 | FG16X7R1E105KNT06 |
| X7R | 1.5uF | ±10% | 25 | FG16X7R1E155KNT00 | FG16X7R1E155KNT06 |
| X7R | 2.2uF | ±10% | 25 | FG16X7R1E225KNT00 | FG16X7R1E225KNT06 |
| X7R | 6.8uF | ±10% | 25 | FG16X7R1E685KRT00 | FG16X7R1E685KRT06 |
| X7R | 10uF | ±10% | 25 | FG16X7R1E106KRT00 | FG16X7R1E106KRT06 |
| X7R | 470nF | ±10% | 50 | FG16X7R1H474KNT00 | FG16X7R1H474KNT06 |
| X7R | 680nF | ±10% | 50 | FG16X7R1H684KNT00 | FG16X7R1H684KNT06 |
| X7R | 3.3uF | ±10% | 50 | FG16X7R1H335KRT00 | FG16X7R1H335KRT06 |
| X7R | 4.7uF | ±10% | 50 | FG16X7R1H475KRT00 | FG16X7R1H475KRT06 |
| X7R | 150nF | ±10% | 100 | FG16X7R2A154KNT00 | FG16X7R2A154KNT06 |
| X7R | 220nF | ±10% | 100 | FG16X7R2A224KNT00 | FG16X7R2A224KNT06 |
| X7R | 330nF | ±10% | 100 | FG16X7R2A334KNT00 | FG16X7R2A334KNT06 |
| X7R | 470nF | ±10% | 100 | FG16X7R2A474KNT00 | FG16X7R2A474KNT06 |
| X7R | 680nF | ±10% | 100 | FG16X7R2A684KNT00 | FG16X7R2A684KNT06 |
| X7R | 1uF | ±10% | 100 | FG16X7R2A105KNT00 | FG16X7R2A105KNT06 |
| X7S | 1.5uF | ±10% | 100 | FG16X7S2A155KRT00 | FG16X7S2A155KRT06 |
| X7S | 2.2uF | ±10% | 100 | FG16X7S2A225KRT00 | FG16X7S2A225KRT06 |
| X7S | 3.3uF | ±10% | 100 | FG16X7S2A335KRT00 | FG16X7S2A335KRT06 |

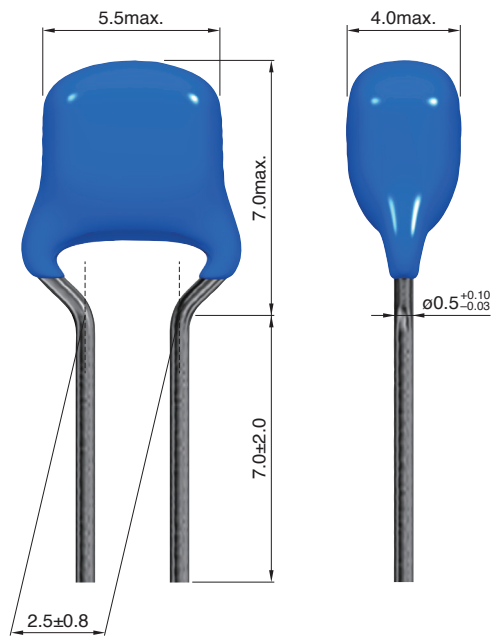
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

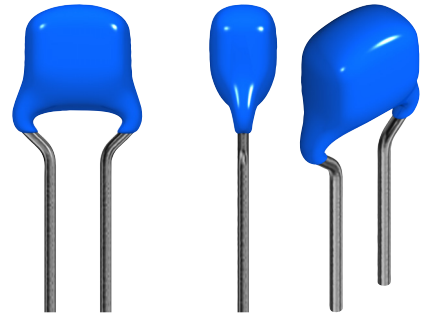
* The part numbers are TDK's standard specification products.

FG11 type

■ SHAPE & DIMENSIONS



Dimensions in mm



CAPACITORS



FG11 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|--------------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| C0G | 47nF | ±5% | 100 | FG11C0G2A473JNT00 | FG11C0G2A473JNT06 |
| C0G | 68nF | ±5% | 100 | FG11C0G2A683JNT00 | FG11C0G2A683JNT06 |

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

CLASS 2 (TEMPERATURE STABLE)

| Temperature characteristics | Capacitance | Tolerance | Rated voltage Edc (V) | Part No.* | |
|-----------------------------|-------------|-----------|--------------------------|-----------------------------------|-----------------------------------|
| | | | | Separate | Taping |
| X7R | 15uF | ±20% | 16 | FG11X7R1C156MRT00 | FG11X7R1C156MRT06 |
| X7R | 22uF | ±20% | 16 | FG11X7R1C226MRT00 | FG11X7R1C226MRT06 |
| X7R | 3.3uF | ±10% | 25 | FG11X7R1E335KNT00 | FG11X7R1E335KNT06 |
| X7R | 4.7uF | ±10% | 25 | FG11X7R1E475KNT00 | FG11X7R1E475KNT06 |
| X7R | 1uF | ±10% | 50 | FG11X7R1H105KNT00 | FG11X7R1H105KNT06 |
| X7R | 1.5uF | ±10% | 50 | FG11X7R1H155KNT00 | FG11X7R1H155KNT06 |
| X7R | 10uF | ±10% | 50 | FG11X7R1H106KRT00 | FG11X7R1H106KRT06 |
| X7R | 1.5uF | ±10% | 100 | FG11X7R2A155KRT00 | FG11X7R2A155KRT06 |
| X7R | 2.2uF | ±10% | 100 | FG11X7R2A225KRT00 | FG11X7R2A225KRT06 |
| X7S | 6.8uF | ±10% | 50 | FG11X7S1H685KRT00 | FG11X7S1H685KRT06 |
| X7S | 10uF | ±10% | 50 | FG11X7S1H106KRT00 | FG11X7S1H106KRT06 |
| X7S | 4.7uF | ±10% | 100 | FG11X7S2A475KRT00 | FG11X7S2A475KRT06 |

■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

* The part numbers are TDK's standard specification products.

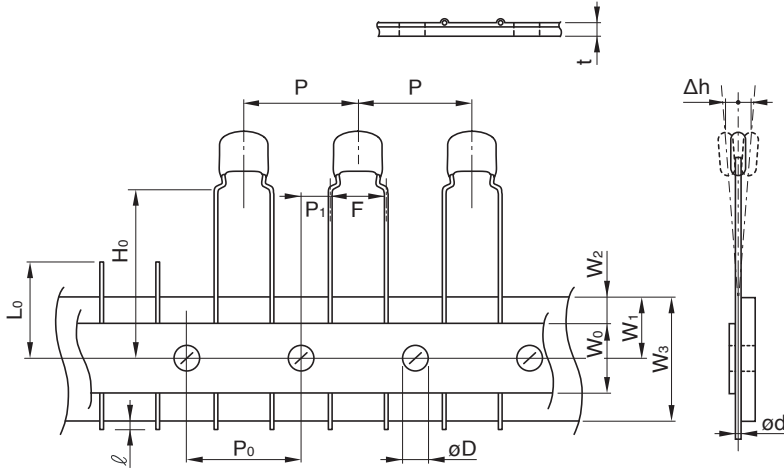
CAPACITORS **TDK**

PACKAGING STYLE

TAPING DIMENSIONS

Lead pitch 5.0 mm

(FG28, FG24, FG26, FG20, FG22, FG23 type)

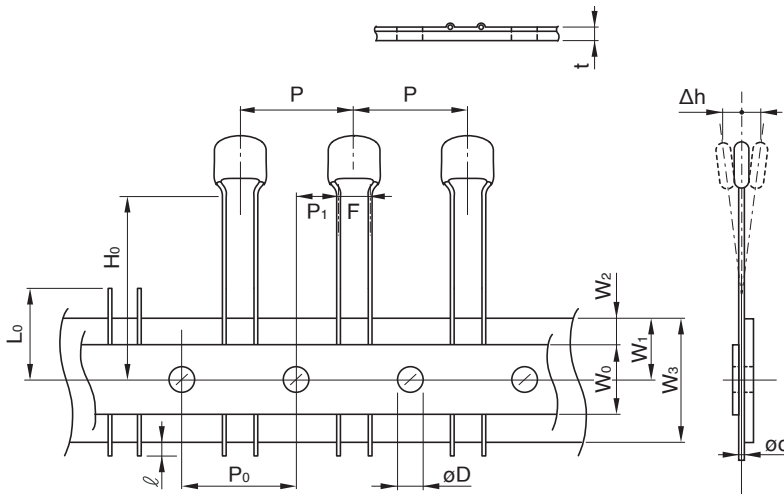


| Symbol | Dimensions(mm) |
|------------------------------|-----------------|
| P | (12.7) |
| P ₀ | (12.7) |
| P ₁ | (3.85) |
| W ₀ | 12.0±1.0 |
| W ₁ | 9.0±0.5 |
| W ₂ ^{*1} | 3.0max. |
| W ₃ | 18.0+1.0, -0.5 |
| H ₀ | 16.0±0.8 |
| l | 1.0max. |
| t | 0.6±0.2 |
| L ₀ ^{*2} | 11.0max. |
| F ^{*3} | 5.0+0.8, -0.2 |
| ød | ø0.5+0.1, -0.03 |
| øD | (ø4.0) |
| Δh | (±2) |

The values in parentheses "()" are reference values.
 *1 Adhesive tape shall not stick out from carrier tape.
 *2 The number of consecutive gaps in the product shall be three or less.
 *3 The measurement position should be 1.5 to 2.0 mm below the kink.

Lead pitch 2.5 mm

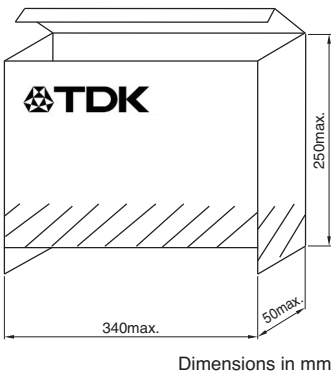
(FG18, FG14, FG16, FG11 type)



| Symbol | Dimensions(mm) |
|------------------------------|-----------------|
| P | (12.7) |
| P ₀ | (12.7) |
| P ₁ | (5.1) |
| W ₀ | 12.0±1.0 |
| W ₁ | 9.0±0.5 |
| W ₂ ^{*1} | 3.0max. |
| W ₃ | 18.0+1.0, -0.5 |
| H ₀ | 16.0±0.8 |
| l | 1.0max. |
| t | 0.6±0.2 |
| L ₀ ^{*2} | 11.0max. |
| F ^{*3} | 2.5+0.5, -0.2 |
| ød | ø0.5+0.1, -0.03 |
| øD | (ø4.0) |
| Δh | (±2) |

The values in parentheses "()" are reference values.
 *1 Adhesive tape shall not stick out from carrier tape.
 *2 The number of consecutive gaps in the product shall be three or less.
 *3 The measurement position should be 1.5 to 2.0 mm below the kink.

AMMO PACK INNER BOX SIZE



⚠ 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.

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