

FA18X7R1H223KNU00 Datasheet

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DiGi Electronics Part Number	FA18X7R1H223KNU00-DG
Manufacturer	TDK Corporation
Manufacturer Product Number	FA18X7R1H223KNU00
Description	CAP CER 0.022UF 50V X7R RADIAL
Detailed Description	0.022 μ F \pm 10% 50V Ceramic Capacitor X7R Radial

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Purchase and inquiry

Manufacturer Product Number:

FA18X7R1H223KNU00

Series:

FA

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

50V

Operating Temperature:

-55°C ~ 125°C

Ratings:

AEC-Q200

Failure Rate:

-

Package / Case:

Radial

Height - Seated (Max):

0.217" (5.50mm)

Lead Spacing:

0.098" (2.50mm)

Manufacturer:

TDK Corporation

Product Status:

Active

Tolerance: \pm 10%**Temperature Coefficient:**

X7R

Features:

-

Applications:

Automotive

Mounting Type:

Through Hole

Size / Dimension:

0.157" L x 0.098" W (4.00mm x 2.50mm)

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



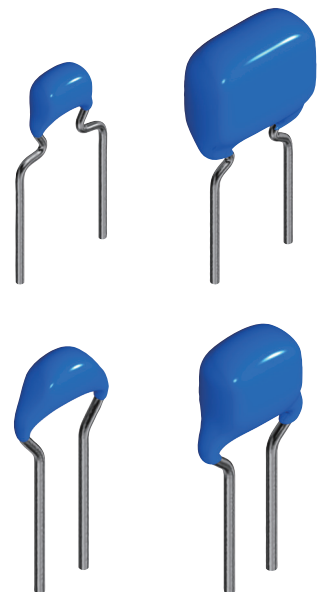
October 2024

MLCC with dipped radial lead

(Halogen-free, automotive grade)

FA series

Type:	Lead pitch	5.0 mm
		FA28 [4.0x5.5mm]
		FA24 [4.5x5.5mm]
		FA26 [5.5x6.0mm]
		FA20 [5.5x7.0mm]
		FA22 [7.5x8.5mm]
		FA23 [8.5x11.0mm]
	Lead pitch	2.5 mm
		FA18 [4.0x5.5mm]
		FA14 [4.5x5.5mm]
		FA16 [5.5x6.0mm]
		FA11 [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

- The products listed in this specification are intended for use in automotive applications under normal operation and usage conditions. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality requires a more stringent level of safety or reliability, or whose failure, malfunction or defect could cause serious damage to society, person or property.

Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this specification sheet. 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 this specification, please contact us.

- | | |
|--|--|
| (1) Aerospace/aviation equipment | (7) Transportation control equipment |
| (2) Transportation equipment (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.

In addition, although the products listed in this specification are intended for use in automotive applications as described above, they are not prohibited to use in general electronic equipment, whose performance and/or quality doesn't require a more stringent level of safety or reliability, or whose failure, malfunction or defect could not cause serious damage to society, person or property. Therefore, the description of this caution will be applied, when the products are used in general electronic equipment under a normal operation and usage conditions.

- We may modify products or discontinue production of a product listed in this catalog without prior notification.
- 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.
- 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.
- Any reproduction or transferring of the contents of this catalog is prohibited without prior permission from our company.
- 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.
- 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, automotive grade

Overview of the FA series

FEATURES

- Voltage rating of 25V to 630V with capacitance range of 1pF to 22μF
- Qualified based on AEC-Q200

APPLICATION

- Noise reduction measures for various motors for automotive use
- Resonant circuits in areas such as keyless entry systems
- Bypass capacitors and smoothing capacitors for switching power sources, etc.
- Snubber circuits
- PFC input filters

PART NUMBER CONSTRUCTION

FA	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	1E 25	010 1	C ±0.25pF		0 Bulk
	2. 5.0	4 4.5x5.5x3.0	X7R ±15%	1H 50	100 10	D ±0.5pF		6 Taping
		6 5.5x6.0x3.5	X7S ±22%	2A 100	101 100	J ±5%		
		0 5.5x7.0x4.0	X7T +22, -33%	2E 250	102 1,000	K ±10%		
		1 5.5x7.0x4.0		2W 450		M ±20%		
		2 7.5x8.5x4.5		2J 630				
		3 8.5x11.0x5.5						

TEMPERATURE RANGE

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

* 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.

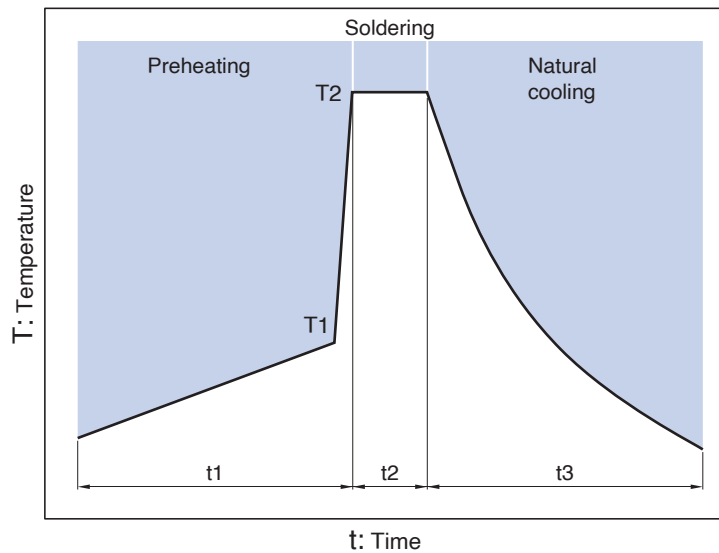
Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

Overview of the FA series

PACKAGE QUANTITY

Type	Package quantity	
	Taping (pieces / box)	Bulk (pieces / bag)
FA28	2000	500
FA24	2000	500
FA26	2000	500
FA20	1500	500
FA22	1000	500
FA23	1000	200
FA18	2000	500
FA14	2000	500
FA16	2000	500
FA11	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.

MLCC with dipped radial lead


Halogen-free, automotive grade


Product compatible with RoHS directive
Halogen-free


Capacitance range chart

FA28 type

Capacitance		COG			X7R			X7S	
(pF)	Code	2E (250V)	2A (100V)	1H (50V)	2A (100V)	1H (50V)	1E (25V)	2A (100V)	
1	010								
1.5	1R5								
2.2	2R2								
3.3	3R3								
4.7	4R7								
6.8	6R8								
10	100								
15	150								
22	220								
33	330								
47	470								
68	680								
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								

 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 14 and after.

CAPACITORS



MLCC with dipped radial lead

Halogen-free, automotive grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FA24 type

Capacitance		COG				X7R				X7S	X7T
(pF)	Code	2W (450V)	2E (250V)	2A (100V)	1H (50V)	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										

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Click the charts for details.

For details such as the catalog numbers, please refer to the capacitance range table on page 14 and after.

CAPACITORS



MLCC with dipped radial lead

Halogen-free, automotive grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FA26 type

Capacitance		COG					X7R					X7S	X7T
(pF)	Code	2J (630V)	2W (450V)	2E (250V)	2A (100V)	1H (50V)	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												

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 14 and after.

CAPACITORS



MLCC with dipped radial lead

Halogen-free, automotive grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FA20 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)	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												■

■ 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 14 and after.

CAPACITORS



MLCC with dipped radial lead

Halogen-free, automotive grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FA22 type

Capacitance		COG					X7R					X7T	
(pF)	Code	2J (630V)	2W (450V)	2E (250V)	2A (100V)	1H (50V)	2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	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												

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 14 and after.

Capacitance range chart

FA23 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)	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											

Click the charts for details.

For details such as the catalog numbers, please refer to the capacitance range table on page 14 and after.

CAPACITORS



MLCC with dipped radial lead

Halogen-free, automotive grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FA18 type

Capacitance		COG		X7R			X7S
(pF)	Code	2A (100V)	1H (50V)	2A (100V)	1H (50V)	1E (25V)	2A (100V)
1	010						
1.5	1R5						
2.2	2R2						
3.3	3R3						
4.7	4R7						
6.8	6R8						
10	100						
15	150						
22	220						
33	330						
47	470						
68	680						
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						

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 14 and after.

CAPACITORS



MLCC with dipped radial lead

Halogen-free, automotive grade

Product compatible with RoHS directive
Halogen-free

Capacitance range chart

FA14 type

Capacitance		COG		X7R			X7S
(pF)	Code	2A (100V)	1H (50V)	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						

■ 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 14 and after.

Capacitance range chart

FA16 type

Capacitance		COG		X7R			X7S
(pF)	Code	2A (100V)	1H (50V)	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						

■ Click the charts for details.

■ For details such as the catalog numbers, please refer to the capacitance range table on page 14 and after.

CAPACITORS



MLCC with dipped radial lead


Halogen-free, automotive grade


Product compatible with RoHS directive
Halogen-free


Capacitance range chart

FA11 type

Capacitance		COG	X7R			X7S	
(pF)	Code	2A (100V)	2A (100V)	1H (50V)	1E (25V)	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						
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3,300,000	335						
4,700,000	475						
6,800,000	685						
10,000,000	106						

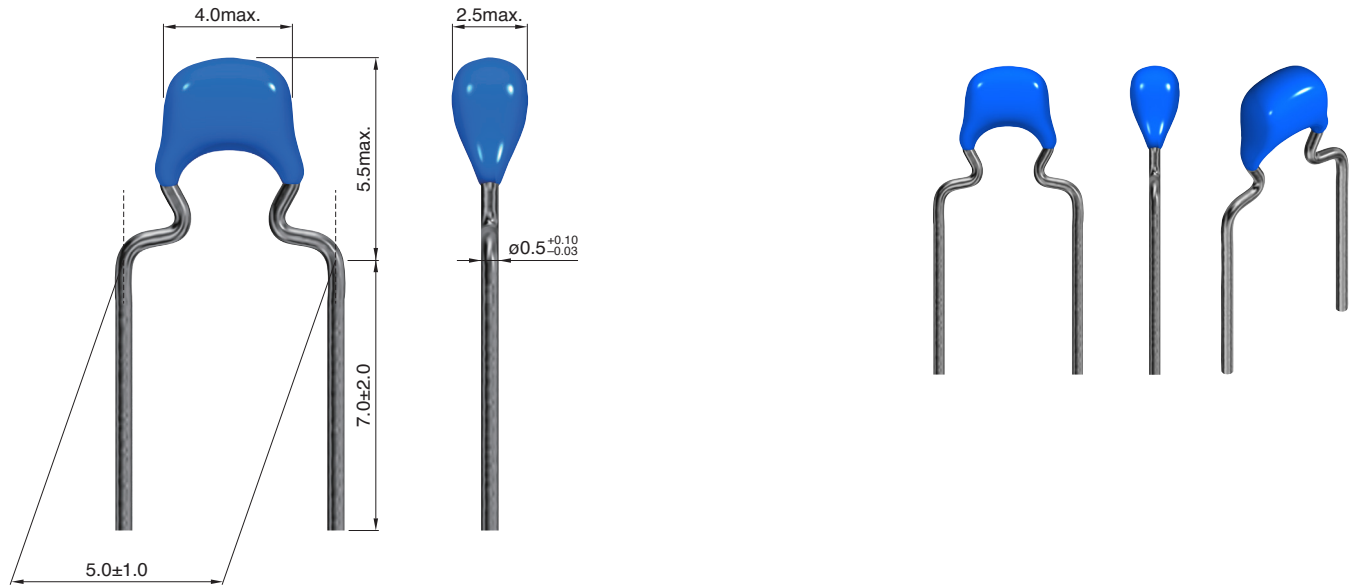
 Background gray: These products are not recommended for new designs.

 Click the charts for details.

 For details such as the catalog numbers, please refer to the capacitance range table on page 14 and after.

FA28 type

SHAPE & DIMENSIONS



Dimensions in mm

CAPACITORS



FA28 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	FA28C0G1H010CNU00	FA28C0G1H010CNU06
C0G	1.5pF	±0.25pF	50	FA28C0G1H1R5CNU00	FA28C0G1H1R5CNU06
C0G	2.2pF	±0.25pF	50	FA28C0G1H2R2CNU00	FA28C0G1H2R2CNU06
C0G	3.3pF	±0.25pF	50	FA28C0G1H3R3CNU00	FA28C0G1H3R3CNU06
C0G	4.7pF	±0.25pF	50	FA28C0G1H4R7CNU00	FA28C0G1H4R7CNU06
C0G	6.8pF	±0.5pF	50	FA28C0G1H6R8DNU00	FA28C0G1H6R8DNU06
C0G	10pF	±0.5pF	50	FA28C0G1H100DNU00	FA28C0G1H100DNU06
C0G	15pF	±5%	50	FA28C0G1H150JNU00	FA28C0G1H150JNU06
C0G	22pF	±5%	50	FA28C0G1H220JNU00	FA28C0G1H220JNU06
C0G	33pF	±5%	50	FA28C0G1H330JNU00	FA28C0G1H330JNU06
C0G	47pF	±5%	50	FA28C0G1H470JNU00	FA28C0G1H470JNU06
C0G	68pF	±5%	50	FA28C0G1H680JNU00	FA28C0G1H680JNU06
C0G	100pF	±5%	50	FA28C0G1H101JNU00	FA28C0G1H101JNU06
C0G	120pF	±5%	50	FA28C0G1H121JNU00	FA28C0G1H121JNU06
C0G	150pF	±5%	50	FA28C0G1H151JNU00	FA28C0G1H151JNU06
C0G	180pF	±5%	50	FA28C0G1H181JNU00	FA28C0G1H181JNU06
C0G	220pF	±5%	50	FA28C0G1H221JNU00	FA28C0G1H221JNU06
C0G	270pF	±5%	50	FA28C0G1H271JNU00	FA28C0G1H271JNU06
C0G	330pF	±5%	50	FA28C0G1H331JNU00	FA28C0G1H331JNU06
C0G	390pF	±5%	50	FA28C0G1H391JNU00	FA28C0G1H391JNU06
C0G	470pF	±5%	50	FA28C0G1H471JNU00	FA28C0G1H471JNU06
C0G	560pF	±5%	50	FA28C0G1H561JNU00	FA28C0G1H561JNU06
C0G	680pF	±5%	50	FA28C0G1H681JNU00	FA28C0G1H681JNU06
C0G	820pF	±5%	50	FA28C0G1H821JNU00	FA28C0G1H821JNU06
C0G	1nF	±5%	50	FA28C0G1H102JNU00	FA28C0G1H102JNU06
C0G	1.2nF	±5%	50	FA28C0G1H122JNU00	FA28C0G1H122JNU06
C0G	1.5nF	±5%	50	FA28C0G1H152JNU00	FA28C0G1H152JNU06
C0G	1.8nF	±5%	50	FA28C0G1H182JNU00	FA28C0G1H182JNU06
C0G	2.2nF	±5%	50	FA28C0G1H222JNU00	FA28C0G1H222JNU06
C0G	2.7nF	±5%	50	FA28C0G1H272JNU00	FA28C0G1H272JNU06
C0G	3.3nF	±5%	50	FA28C0G1H332JNU00	FA28C0G1H332JNU06
C0G	3.9nF	±5%	50	FA28C0G1H392JNU00	FA28C0G1H392JNU06
C0G	4.7nF	±5%	50	FA28C0G1H472JNU00	FA28C0G1H472JNU06
C0G	5.6nF	±5%	50	FA28C0G1H562JNU00	FA28C0G1H562JNU06
C0G	6.8nF	±5%	50	FA28C0G1H682JNU00	FA28C0G1H682JNU06
C0G	8.2nF	±5%	50	FA28C0G1H822JNU00	FA28C0G1H822JNU06
C0G	10nF	±5%	50	FA28C0G1H103JNU00	FA28C0G1H103JNU06
C0G	1.0pF	±0.25pF	100	FA28C0G2A010CNU00	FA28C0G2A010CNU06
C0G	1.5pF	±0.25pF	100	FA28C0G2A1R5CNU00	FA28C0G2A1R5CNU06
C0G	2.2pF	±0.25pF	100	FA28C0G2A2R2CNU00	FA28C0G2A2R2CNU06
C0G	3.3pF	±0.25pF	100	FA28C0G2A3R3CNU00	FA28C0G2A3R3CNU06
C0G	4.7pF	±0.25pF	100	FA28C0G2A4R7CNU00	FA28C0G2A4R7CNU06
C0G	6.8pF	±0.5pF	100	FA28C0G2A6R8DNU00	FA28C0G2A6R8DNU06
C0G	10pF	±0.5pF	100	FA28C0G2A100DNU00	FA28C0G2A100DNU06
C0G	15pF	±5%	100	FA28C0G2A150JNU00	FA28C0G2A150JNU06
C0G	22pF	±5%	100	FA28C0G2A220JNU00	FA28C0G2A220JNU06
C0G	33pF	±5%	100	FA28C0G2A330JNU00	FA28C0G2A330JNU06
C0G	47pF	±5%	100	FA28C0G2A470JNU00	FA28C0G2A470JNU06
C0G	68pF	±5%	100	FA28C0G2A680JNU00	FA28C0G2A680JNU06
C0G	100pF	±5%	100	FA28C0G2A101JNU00	FA28C0G2A101JNU06

■ 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



FA28 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*	
				Separate	Taping
C0G	120pF	±5%	100	FA28C0G2A121JNU00	FA28C0G2A121JNU06
C0G	150pF	±5%	100	FA28C0G2A151JNU00	FA28C0G2A151JNU06
C0G	180pF	±5%	100	FA28C0G2A181JNU00	FA28C0G2A181JNU06
C0G	220pF	±5%	100	FA28C0G2A221JNU00	FA28C0G2A221JNU06
C0G	270pF	±5%	100	FA28C0G2A271JNU00	FA28C0G2A271JNU06
C0G	330pF	±5%	100	FA28C0G2A331JNU00	FA28C0G2A331JNU06
C0G	390pF	±5%	100	FA28C0G2A391JNU00	FA28C0G2A391JNU06
C0G	470pF	±5%	100	FA28C0G2A471JNU00	FA28C0G2A471JNU06
C0G	560pF	±5%	100	FA28C0G2A561JNU00	FA28C0G2A561JNU06
C0G	680pF	±5%	100	FA28C0G2A681JNU00	FA28C0G2A681JNU06
C0G	820pF	±5%	100	FA28C0G2A821JNU00	FA28C0G2A821JNU06
C0G	1nF	±5%	100	FA28C0G2A102JNU00	FA28C0G2A102JNU06
C0G	1.2nF	±5%	100	FA28C0G2A122JNU00	FA28C0G2A122JNU06
C0G	1.5nF	±5%	100	FA28C0G2A152JNU00	FA28C0G2A152JNU06
C0G	1.8nF	±5%	100	FA28C0G2A182JNU00	FA28C0G2A182JNU06
C0G	2.2nF	±5%	100	FA28C0G2A222JNU00	FA28C0G2A222JNU06
C0G	2.7nF	±5%	100	FA28C0G2A272JNU00	FA28C0G2A272JNU06
C0G	3.3nF	±5%	100	FA28C0G2A332JNU00	FA28C0G2A332JNU06
C0G	3.9nF	±5%	100	FA28C0G2A392JRU00	FA28C0G2A392JRU06
C0G	4.7nF	±5%	100	FA28C0G2A472JRU00	FA28C0G2A472JRU06
C0G	5.6nF	±5%	100	FA28C0G2A562JRU00	FA28C0G2A562JRU06
C0G	6.8nF	±5%	100	FA28C0G2A682JRU00	FA28C0G2A682JRU06
C0G	8.2nF	±5%	100	FA28C0G2A822JRU00	FA28C0G2A822JRU06
C0G	10nF	±5%	100	FA28C0G2A103JRU00	FA28C0G2A103JRU06
C0G	100pF	±5%	250	FA28C0G2E101JNU00	FA28C0G2E101JNU06
C0G	120pF	±5%	250	FA28C0G2E121JNU00	FA28C0G2E121JNU06
C0G	150pF	±5%	250	FA28C0G2E151JNU00	FA28C0G2E151JNU06
C0G	180pF	±5%	250	FA28C0G2E181JNU00	FA28C0G2E181JNU06
C0G	220pF	±5%	250	FA28C0G2E221JNU00	FA28C0G2E221JNU06
C0G	270pF	±5%	250	FA28C0G2E271JNU00	FA28C0G2E271JNU06
C0G	330pF	±5%	250	FA28C0G2E331JNU00	FA28C0G2E331JNU06
C0G	390pF	±5%	250	FA28C0G2E391JNU00	FA28C0G2E391JNU06
C0G	470pF	±5%	250	FA28C0G2E471JNU00	FA28C0G2E471JNU06
C0G	560pF	±5%	250	FA28C0G2E561JNU00	FA28C0G2E561JNU06
C0G	680pF	±5%	250	FA28C0G2E681JNU00	FA28C0G2E681JNU06
C0G	820pF	±5%	250	FA28C0G2E821JNU00	FA28C0G2E821JNU06
C0G	1nF	±5%	250	FA28C0G2E102JNU00	FA28C0G2E102JNU06
C0G	1.2nF	±5%	250	FA28C0G2E122JNU00	FA28C0G2E122JNU06
C0G	1.5nF	±5%	250	FA28C0G2E152JNU00	FA28C0G2E152JNU06
C0G	1.8nF	±5%	250	FA28C0G2E182JNU00	FA28C0G2E182JNU06
C0G	2.2nF	±5%	250	FA28C0G2E222JNU00	FA28C0G2E222JNU06

■ 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



FA28 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 2 (TEMPERATURE STABLE)

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*	
				Separate	Taping
X7R	150nF	±10%	25	FA28X7R1E154KNU00	FA28X7R1E154KNU06
X7R	680nF	±10%	25	FA28X7R1E684KRU00	FA28X7R1E684KRU06
X7R	1uF	±10%	25	FA28X7R1E105KRU00	FA28X7R1E105KRU06
X7R	1nF	±10%	50	FA28X7R1H102KNU00	FA28X7R1H102KNU06
X7R	1.5nF	±10%	50	FA28X7R1H152KNU00	FA28X7R1H152KNU06
X7R	2.2nF	±10%	50	FA28X7R1H222KNU00	FA28X7R1H222KNU06
X7R	3.3nF	±10%	50	FA28X7R1H332KNU00	FA28X7R1H332KNU06
X7R	4.7nF	±10%	50	FA28X7R1H472KNU00	FA28X7R1H472KNU06
X7R	6.8nF	±10%	50	FA28X7R1H682KNU00	FA28X7R1H682KNU06
X7R	10nF	±10%	50	FA28X7R1H103KNU00	FA28X7R1H103KNU06
X7R	15nF	±10%	50	FA28X7R1H153KNU00	FA28X7R1H153KNU06
X7R	22nF	±10%	50	FA28X7R1H223KNU00	FA28X7R1H223KNU06
X7R	33nF	±10%	50	FA28X7R1H333KNU00	FA28X7R1H333KNU06
X7R	47nF	±10%	50	FA28X7R1H473KNU00	FA28X7R1H473KNU06
X7R	68nF	±10%	50	FA28X7R1H683KNU00	FA28X7R1H683KNU06
X7R	100nF	±10%	50	FA28X7R1H104KNU00	FA28X7R1H104KNU06
X7R	150nF	±10%	50	FA28X7R1H154KRU00	FA28X7R1H154KRU06
X7R	220nF	±10%	50	FA28X7R1H224KRU00	FA28X7R1H224KRU06
X7R	330nF	±10%	50	FA28X7R1H334KRU00	FA28X7R1H334KRU06
X7R	470nF	±10%	50	FA28X7R1H474KRU00	FA28X7R1H474KRU06
X7R	1nF	±10%	100	FA28X7R2A102KNU00	FA28X7R2A102KNU06
X7R	1.5nF	±10%	100	FA28X7R2A152KNU00	FA28X7R2A152KNU06
X7R	2.2nF	±10%	100	FA28X7R2A222KNU00	FA28X7R2A222KNU06
X7R	3.3nF	±10%	100	FA28X7R2A332KNU00	FA28X7R2A332KNU06
X7R	4.7nF	±10%	100	FA28X7R2A472KNU00	FA28X7R2A472KNU06
X7R	6.8nF	±10%	100	FA28X7R2A682KNU00	FA28X7R2A682KNU06
X7R	10nF	±10%	100	FA28X7R2A103KNU00	FA28X7R2A103KNU06
X7R	15nF	±10%	100	FA28X7R2A153KNU00	FA28X7R2A153KNU06
X7R	22nF	±10%	100	FA28X7R2A223KNU00	FA28X7R2A223KNU06
X7S	33nF	±10%	100	FA28X7S2A333KRU00	FA28X7S2A333KRU06
X7S	47nF	±10%	100	FA28X7S2A473KRU00	FA28X7S2A473KRU06
X7S	68nF	±10%	100	FA28X7S2A683KRU00	FA28X7S2A683KRU06
X7S	100nF	±10%	100	FA28X7S2A104KRU00	FA28X7S2A104KRU06

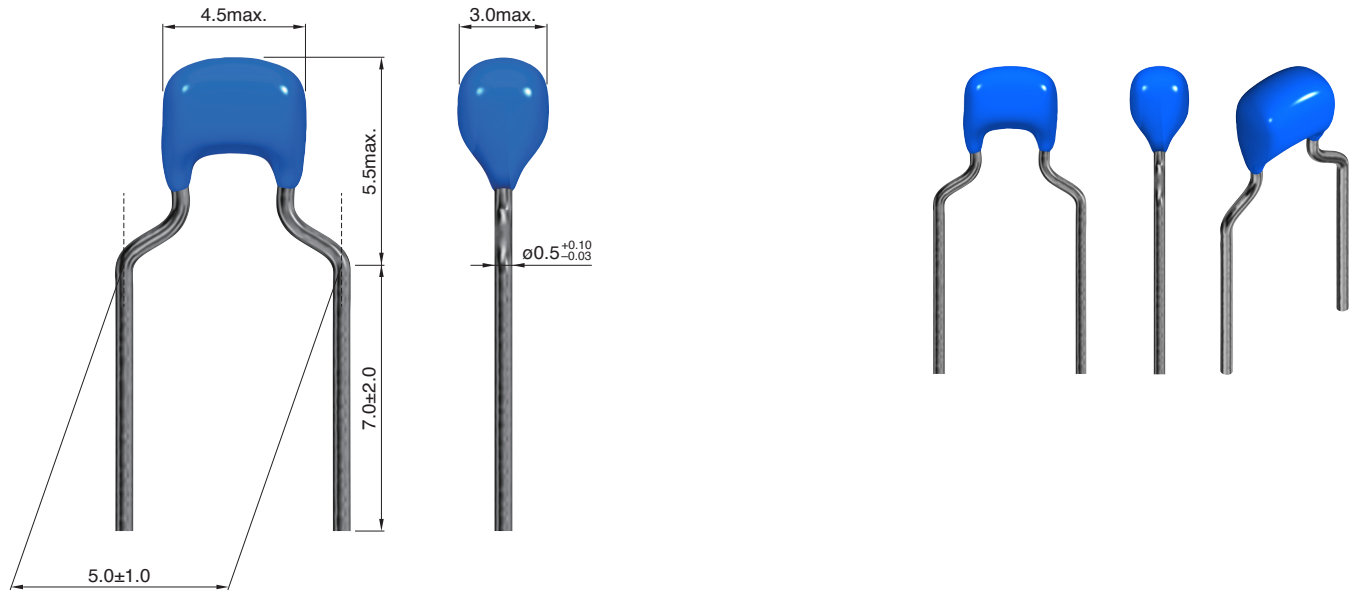
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

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

FA24 type

SHAPE & DIMENSIONS



Dimensions in mm

CAPACITORS



FA24 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	FA24C0G1H153JNU00	FA24C0G1H153JNU06
C0G	22nF	±5%	50	FA24C0G1H223JNU00	FA24C0G1H223JNU06
C0G	33nF	±5%	50	FA24C0G1H333JNU00	FA24C0G1H333JNU06
C0G	3.9nF	±5%	100	FA24C0G2A392JNU00	FA24C0G2A392JNU06
C0G	4.7nF	±5%	100	FA24C0G2A472JNU00	FA24C0G2A472JNU06
C0G	5.6nF	±5%	100	FA24C0G2A562JNU00	FA24C0G2A562JNU06
C0G	6.8nF	±5%	100	FA24C0G2A682JNU00	FA24C0G2A682JNU06
C0G	8.2nF	±5%	100	FA24C0G2A822JNU00	FA24C0G2A822JNU06
C0G	10nF	±5%	100	FA24C0G2A103JNU00	FA24C0G2A103JNU06
C0G	15nF	±5%	100	FA24C0G2A153JRU00	FA24C0G2A153JRU06
C0G	22nF	±5%	100	FA24C0G2A223JRU00	FA24C0G2A223JRU06
C0G	33nF	±5%	100	FA24C0G2A333JRU00	FA24C0G2A333JRU06
C0G	2.7nF	±5%	250	FA24C0G2E272JNU00	FA24C0G2E272JNU06
C0G	3.3nF	±5%	250	FA24C0G2E332JNU00	FA24C0G2E332JNU06
C0G	3.9nF	±5%	250	FA24C0G2E392JNU00	FA24C0G2E392JNU06
C0G	4.7nF	±5%	250	FA24C0G2E472JNU00	FA24C0G2E472JNU06
C0G	5.6nF	±5%	250	FA24C0G2E562JNU00	FA24C0G2E562JNU06
C0G	6.8nF	±5%	250	FA24C0G2E682JNU00	FA24C0G2E682JNU06
C0G	8.2nF	±5%	250	FA24C0G2E822JNU00	FA24C0G2E822JNU06
C0G	10nF	±5%	250	FA24C0G2E103JNU00	FA24C0G2E103JNU06
C0G	100pF	±5%	450	FA24C0G2W101JNU00	FA24C0G2W101JNU06
C0G	120pF	±5%	450	FA24C0G2W121JNU00	FA24C0G2W121JNU06
C0G	150pF	±5%	450	FA24C0G2W151JNU00	FA24C0G2W151JNU06
C0G	180pF	±5%	450	FA24C0G2W181JNU00	FA24C0G2W181JNU06
C0G	220pF	±5%	450	FA24C0G2W221JNU00	FA24C0G2W221JNU06
C0G	270pF	±5%	450	FA24C0G2W271JNU00	FA24C0G2W271JNU06
C0G	330pF	±5%	450	FA24C0G2W331JNU00	FA24C0G2W331JNU06
C0G	390pF	±5%	450	FA24C0G2W391JNU00	FA24C0G2W391JNU06
C0G	470pF	±5%	450	FA24C0G2W471JNU00	FA24C0G2W471JNU06
C0G	560pF	±5%	450	FA24C0G2W561JNU00	FA24C0G2W561JNU06
C0G	680pF	±5%	450	FA24C0G2W681JNU00	FA24C0G2W681JNU06
C0G	820pF	±5%	450	FA24C0G2W821JNU00	FA24C0G2W821JNU06
C0G	1nF	±5%	450	FA24C0G2W102JNU00	FA24C0G2W102JNU06
C0G	1.2nF	±5%	450	FA24C0G2W122JNU00	FA24C0G2W122JNU06
C0G	1.5nF	±5%	450	FA24C0G2W152JNU00	FA24C0G2W152JNU06
C0G	1.8nF	±5%	450	FA24C0G2W182JNU00	FA24C0G2W182JNU06
C0G	2.2nF	±5%	450	FA24C0G2W222JNU00	FA24C0G2W222JNU06
C0G	2.7nF	±5%	450	FA24C0G2W272JNU00	FA24C0G2W272JNU06
C0G	3.3nF	±5%	450	FA24C0G2W332JNU00	FA24C0G2W332JNU06
C0G	3.9nF	±5%	450	FA24C0G2W392JNU00	FA24C0G2W392JNU06
C0G	4.7nF	±5%	450	FA24C0G2W472JNU00	FA24C0G2W472JNU06
C0G	5.6nF	±5%	450	FA24C0G2W562JNU00	FA24C0G2W562JNU06

■ 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



FA24 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 2 (TEMPERATURE STABLE)

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*	
				Separate	Taping
X7R	470nF	±10%	25	FA24X7R1E474KNU00	FA24X7R1E474KNU06
X7R	3.3uF	±10%	25	FA24X7R1E335KRU00	FA24X7R1E335KRU06
X7R	4.7uF	±10%	25	FA24X7R1E475KRU00	FA24X7R1E475KRU06
X7R	150nF	±10%	50	FA24X7R1H154KNU00	FA24X7R1H154KNU06
X7R	220nF	±10%	50	FA24X7R1H224KNU00	FA24X7R1H224KNU06
X7R	330nF	±10%	50	FA24X7R1H334KNU00	FA24X7R1H334KNU06
X7R	680nF	±10%	50	FA24X7R1H684KRU00	FA24X7R1H684KRU06
X7R	1uF	±10%	50	FA24X7R1H105KRU00	FA24X7R1H105KRU06
X7R	1.5uF	±10%	50	FA24X7R1H155KRU00	FA24X7R1H155KRU06
X7R	2.2uF	±10%	50	FA24X7R1H225KRU00	FA24X7R1H225KRU06
X7R	33nF	±10%	100	FA24X7R2A333KNU00	FA24X7R2A333KNU06
X7R	47nF	±10%	100	FA24X7R2A473KNU00	FA24X7R2A473KNU06
X7R	68nF	±10%	100	FA24X7R2A683KNU00	FA24X7R2A683KNU06
X7R	100nF	±10%	100	FA24X7R2A104KNU00	FA24X7R2A104KNU06
X7R	1nF	±10%	250	FA24X7R2E102KNU00	FA24X7R2E102KNU06
X7R	1.5nF	±10%	250	FA24X7R2E152KNU00	FA24X7R2E152KNU06
X7R	2.2nF	±10%	250	FA24X7R2E222KNU00	FA24X7R2E222KNU06
X7R	3.3nF	±10%	250	FA24X7R2E332KNU00	FA24X7R2E332KNU06
X7R	4.7nF	±10%	250	FA24X7R2E472KNU00	FA24X7R2E472KNU06
X7R	6.8nF	±10%	250	FA24X7R2E682KNU00	FA24X7R2E682KNU06
X7R	10nF	±10%	250	FA24X7R2E103KNU00	FA24X7R2E103KNU06
X7R	15nF	±10%	250	FA24X7R2E153KNU00	FA24X7R2E153KNU06
X7R	22nF	±10%	250	FA24X7R2E223KNU00	FA24X7R2E223KNU06
X7S	150nF	±10%	100	FA24X7S2A154KRU00	FA24X7S2A154KRU06
X7S	220nF	±10%	100	FA24X7S2A224KRU00	FA24X7S2A224KRU06
X7S	330nF	±10%	100	FA24X7S2A334KRU00	FA24X7S2A334KRU06
X7S	470nF	±10%	100	FA24X7S2A474KRU00	FA24X7S2A474KRU06
X7S	680nF	±10%	100	FA24X7S2A684KRU00	FA24X7S2A684KRU06
X7S	1uF	±10%	100	FA24X7S2A105KRU00	FA24X7S2A105KRU06
X7T	33nF	±10%	250	FA24X7T2E333KNU00	FA24X7T2E333KNU06
X7T	47nF	±10%	250	FA24X7T2E473KNU00	FA24X7T2E473KNU06
X7T	68nF	±10%	250	FA24X7T2E683KNU00	FA24X7T2E683KNU06
X7T	100nF	±10%	250	FA24X7T2E104KNU00	FA24X7T2E104KNU06

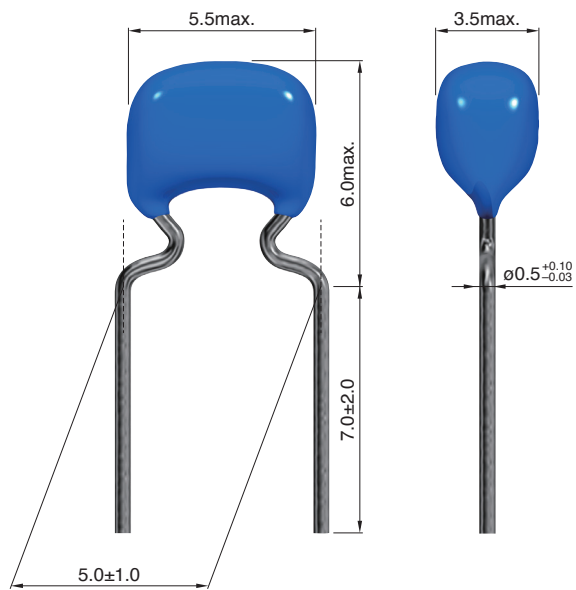
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

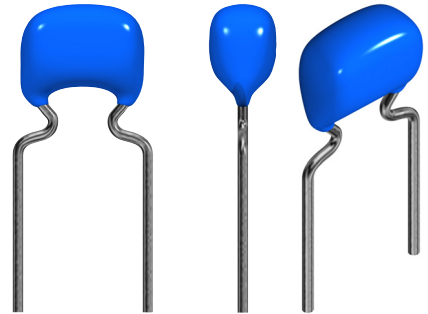
* The part numbers are TDK's standard specification products.

FA26 type

SHAPE & DIMENSIONS



Dimensions in mm



CAPACITORS



FA26 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	FA26C0G1H473JNU00	FA26C0G1H473JNU06
C0G	68nF	±5%	50	FA26C0G1H683JNU00	FA26C0G1H683JNU06
C0G	100nF	±5%	50	FA26C0G1H104JNU00	FA26C0G1H104JNU06
C0G	15nF	±5%	100	FA26C0G2A153JNU00	FA26C0G2A153JNU06
C0G	22nF	±5%	100	FA26C0G2A223JNU00	FA26C0G2A223JNU06
C0G	33nF	±5%	100	FA26C0G2A333JNU00	FA26C0G2A333JNU06
C0G	47nF	±5%	100	FA26C0G2A473JRU00	FA26C0G2A473JRU06
C0G	68nF	±5%	100	FA26C0G2A683JRU00	FA26C0G2A683JRU06
C0G	100nF	±5%	100	FA26C0G2A104JRU00	FA26C0G2A104JRU06
C0G	15nF	±5%	250	FA26C0G2E153JNU00	FA26C0G2E153JNU06
C0G	22nF	±5%	250	FA26C0G2E223JNU00	FA26C0G2E223JNU06
C0G	6.8nF	±5%	450	FA26C0G2W682JNU00	FA26C0G2W682JNU06
C0G	8.2nF	±5%	450	FA26C0G2W822JNU00	FA26C0G2W822JNU06
C0G	10nF	±5%	450	FA26C0G2W103JNU00	FA26C0G2W103JNU06
C0G	15nF	±5%	450	FA26C0G2W153JNU00	FA26C0G2W153JNU06
C0G	100pF	±5%	630	FA26C0G2J101JNU00	FA26C0G2J101JNU06
C0G	120pF	±5%	630	FA26C0G2J121JNU00	FA26C0G2J121JNU06
C0G	150pF	±5%	630	FA26C0G2J151JNU00	FA26C0G2J151JNU06
C0G	180pF	±5%	630	FA26C0G2J181JNU00	FA26C0G2J181JNU06
C0G	220pF	±5%	630	FA26C0G2J221JNU00	FA26C0G2J221JNU06
C0G	270pF	±5%	630	FA26C0G2J271JNU00	FA26C0G2J271JNU06
C0G	330pF	±5%	630	FA26C0G2J331JNU00	FA26C0G2J331JNU06
C0G	390pF	±5%	630	FA26C0G2J391JNU00	FA26C0G2J391JNU06
C0G	470pF	±5%	630	FA26C0G2J471JNU00	FA26C0G2J471JNU06
C0G	560pF	±5%	630	FA26C0G2J561JNU00	FA26C0G2J561JNU06
C0G	680pF	±5%	630	FA26C0G2J681JNU00	FA26C0G2J681JNU06
C0G	820pF	±5%	630	FA26C0G2J821JNU00	FA26C0G2J821JNU06
C0G	1nF	±5%	630	FA26C0G2J102JNU00	FA26C0G2J102JNU06
C0G	1.2nF	±5%	630	FA26C0G2J122JNU00	FA26C0G2J122JNU06
C0G	1.5nF	±5%	630	FA26C0G2J152JNU00	FA26C0G2J152JNU06
C0G	1.8nF	±5%	630	FA26C0G2J182JNU00	FA26C0G2J182JNU06
C0G	2.2nF	±5%	630	FA26C0G2J222JNU00	FA26C0G2J222JNU06
C0G	2.7nF	±5%	630	FA26C0G2J272JNU00	FA26C0G2J272JNU06
C0G	3.3nF	±5%	630	FA26C0G2J332JNU00	FA26C0G2J332JNU06
C0G	3.9nF	±5%	630	FA26C0G2J392JNU00	FA26C0G2J392JNU06
C0G	4.7nF	±5%	630	FA26C0G2J472JNU00	FA26C0G2J472JNU06
C0G	5.6nF	±5%	630	FA26C0G2J562JNU00	FA26C0G2J562JNU06
C0G	6.8nF	±5%	630	FA26C0G2J682JNU00	FA26C0G2J682JNU06
C0G	8.2nF	±5%	630	FA26C0G2J822JNU00	FA26C0G2J822JNU06
C0G	10nF	±5%	630	FA26C0G2J103JNU00	FA26C0G2J103JNU06

■ 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



FA26 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 2 (TEMPERATURE STABLE)

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*	
				Separate	Taping
X7R	1uF	±10%	25	FA26X7R1E105KNU00	FA26X7R1E105KNU06
X7R	1.5uF	±10%	25	FA26X7R1E155KNU00	FA26X7R1E155KNU06
X7R	2.2uF	±10%	25	FA26X7R1E225KNU00	FA26X7R1E225KNU06
X7R	6.8uF	±10%	25	FA26X7R1E685KRU00	FA26X7R1E685KRU06
X7R	10uF	±10%	25	FA26X7R1E106KRU00	FA26X7R1E106KRU06
X7R	470nF	±10%	50	FA26X7R1H474KNU00	FA26X7R1H474KNU06
X7R	680nF	±10%	50	FA26X7R1H684KNU00	FA26X7R1H684KNU06
X7R	3.3uF	±10%	50	FA26X7R1H335KRU00	FA26X7R1H335KRU06
X7R	4.7uF	±10%	50	FA26X7R1H475KRU00	FA26X7R1H475KRU06
X7R	150nF	±10%	100	FA26X7R2A154KNU00	FA26X7R2A154KNU06
X7R	220nF	±10%	100	FA26X7R2A224KNU00	FA26X7R2A224KNU06
X7R	330nF	±10%	100	FA26X7R2A334KNU00	FA26X7R2A334KNU06
X7R	470nF	±10%	100	FA26X7R2A474KNU00	FA26X7R2A474KNU06
X7R	680nF	±10%	100	FA26X7R2A684KNU00	FA26X7R2A684KNU06
X7R	1uF	±10%	100	FA26X7R2A105KNU00	FA26X7R2A105KNU06
X7R	33nF	±10%	250	FA26X7R2E333KNU00	FA26X7R2E333KNU06
X7R	47nF	±10%	250	FA26X7R2E473KNU00	FA26X7R2E473KNU06
X7R	68nF	±10%	250	FA26X7R2E683KNU00	FA26X7R2E683KNU06
X7R	100nF	±10%	250	FA26X7R2E104KNU00	FA26X7R2E104KNU06
X7R	1nF	±10%	630	FA26X7R2J102KNU00	FA26X7R2J102KNU06
X7R	1.5nF	±10%	630	FA26X7R2J152KNU00	FA26X7R2J152KNU06
X7R	2.2nF	±10%	630	FA26X7R2J222KNU00	FA26X7R2J222KNU06
X7R	3.3nF	±10%	630	FA26X7R2J332KNU00	FA26X7R2J332KNU06
X7R	4.7nF	±10%	630	FA26X7R2J472KNU00	FA26X7R2J472KNU06
X7R	6.8nF	±10%	630	FA26X7R2J682KNU00	FA26X7R2J682KNU06
X7R	10nF	±10%	630	FA26X7R2J103KNU00	FA26X7R2J103KNU06
X7R	15nF	±10%	630	FA26X7R2J153KNU00	FA26X7R2J153KNU06
X7R	22nF	±10%	630	FA26X7R2J223KNU00	FA26X7R2J223KNU06
X7R	33nF	±10%	630	FA26X7R2J333KNU00	FA26X7R2J333KNU06
X7S	1.5uF	±10%	100	FA26X7S2A155KRU00	FA26X7S2A155KRU06
X7S	2.2uF	±10%	100	FA26X7S2A225KRU00	FA26X7S2A225KRU06
X7S	3.3uF	±10%	100	FA26X7S2A335KRU00	FA26X7S2A335KRU06
X7T	150nF	±10%	250	FA26X7T2E154KNU00	FA26X7T2E154KNU06
X7T	220nF	±10%	250	FA26X7T2E224KNU00	FA26X7T2E224KNU06

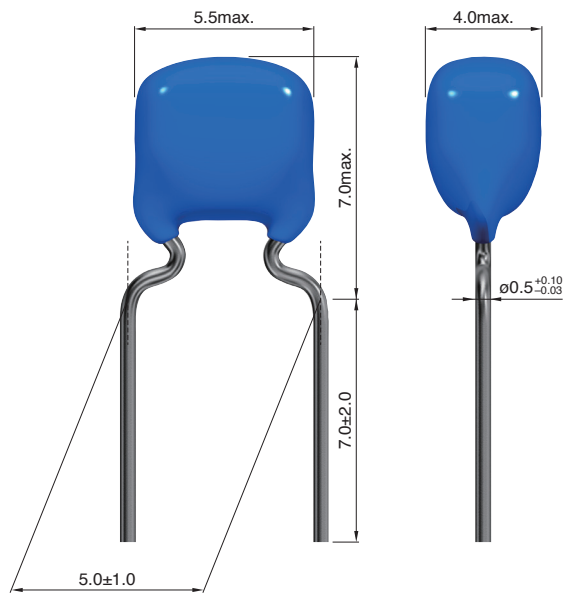
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

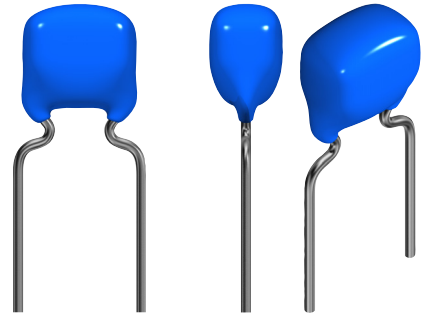
* The part numbers are TDK's standard specification products.

FA20 type

SHAPE & DIMENSIONS



Dimensions in mm



FA20 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	FA20C0G2A473JNU00	FA20C0G2A473JNU06
C0G	68nF	±5%	100	FA20C0G2A683JNU00	FA20C0G2A683JNU06
C0G	33nF	±5%	250	FA20C0G2E333JNU00	FA20C0G2E333JNU06
C0G	47nF	±5%	250	FA20C0G2E473JNU00	FA20C0G2E473JNU06
C0G	22nF	±5%	450	FA20C0G2W223JNU00	FA20C0G2W223JNU06
C0G	33nF	±5%	450	FA20C0G2W333JNU00	FA20C0G2W333JNU06
C0G	15nF	±5%	630	FA20C0G2J153JNU00	FA20C0G2J153JNU06
C0G	22nF	±5%	630	FA20C0G2J223JNU00	FA20C0G2J223JNU06
C0G	33nF	±5%	630	FA20C0G2J333JNU00	FA20C0G2J333JNU06

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	3.3uF	±10%	25	FA20X7R1E335KNU00	FA20X7R1E335KNU06
X7R	4.7uF	±10%	25	FA20X7R1E475KNU00	FA20X7R1E475KNU06
X7R	1uF	±10%	50	FA20X7R1H105KNU00	FA20X7R1H105KNU06
X7R	1.5uF	±10%	50	FA20X7R1H155KNU00	FA20X7R1H155KNU06
X7R	1.5uF	±10%	100	FA20X7R2A155KRU00	FA20X7R2A155KRU06
X7R	2.2uF	±10%	100	FA20X7R2A225KRU00	FA20X7R2A225KRU06
X7R	150nF	±10%	250	FA20X7R2E154KNU00	FA20X7R2E154KNU06
X7R	220nF	±10%	250	FA20X7R2E224KNU00	FA20X7R2E224KNU06
X7R	47nF	±10%	630	FA20X7R2J473KNU00	FA20X7R2J473KNU06
X7R	68nF	±10%	630	FA20X7R2J683KNU00	FA20X7R2J683KNU06
X7S	6.8uF	±10%	50	FA20X7S1H685KRU00	FA20X7S1H685KRU06
X7S	10uF	±10%	50	FA20X7S1H106KRU00	FA20X7S1H106KRU06
X7S	4.7uF	±10%	100	FA20X7S2A475KRU00	FA20X7S2A475KRU06
X7T	330nF	±10%	250	FA20X7T2E334KNU00	FA20X7T2E334KNU06

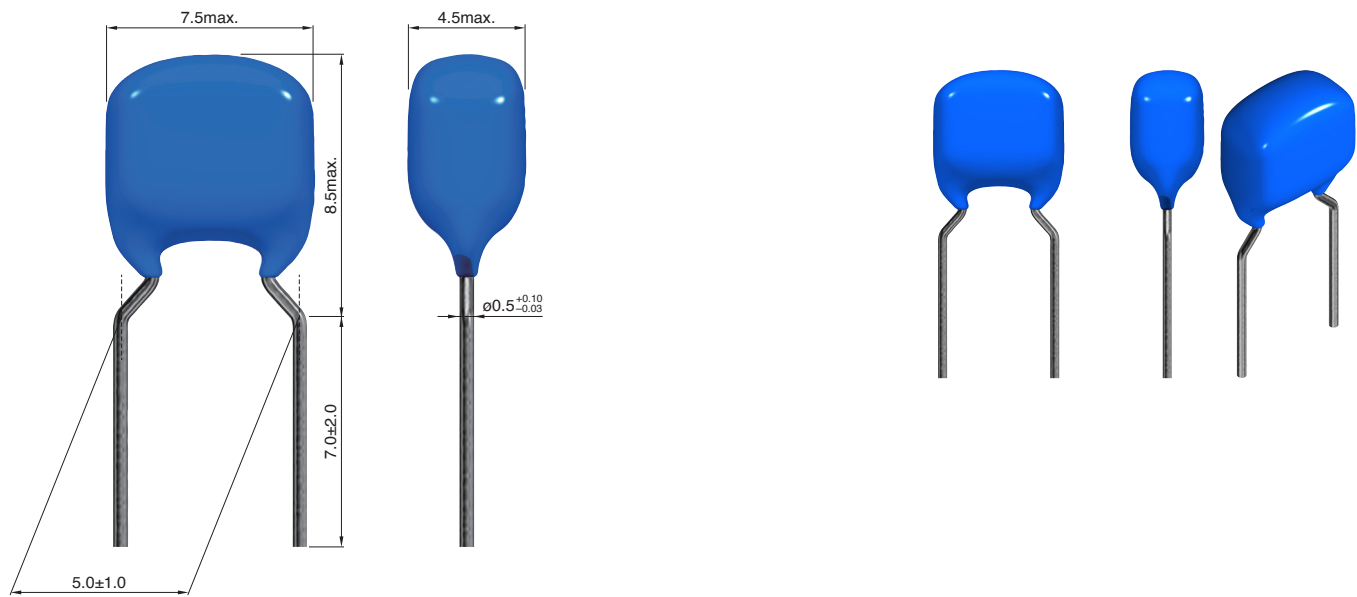
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

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

FA22 type

SHAPE & DIMENSIONS



Dimensions in mm

CAPACITORS



FA22 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	FA22C0G1H154JNU00	FA22C0G1H154JNU06
C0G	220nF	±5%	50	FA22C0G1H224JNU00	FA22C0G1H224JNU06
C0G	100nF	±5%	100	FA22C0G2A104JNU00	FA22C0G2A104JNU06
C0G	68nF	±5%	250	FA22C0G2E683JRU00	FA22C0G2E683JRU06
C0G	100nF	±5%	250	FA22C0G2E104JRU00	FA22C0G2E104JRU06
C0G	47nF	±5%	450	FA22C0G2W473JNU00	FA22C0G2W473JNU06
C0G	68nF	±5%	450	FA22C0G2W683JNU00	FA22C0G2W683JNU06
C0G	47nF	±5%	630	FA22C0G2J473JNU00	FA22C0G2J473JNU06

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	10uF	±10%	25	FA22X7R1E106KNU00	FA22X7R1E106KNU06
X7R	15uF	±20%	25	FA22X7R1E156MRU00	FA22X7R1E156MRU06
X7R	22uF	±20%	25	FA22X7R1E226MRU00	FA22X7R1E226MRU06
X7R	2.2uF	±10%	50	FA22X7R1H225KNU00	FA22X7R1H225KNU06
X7R	3.3uF	±10%	50	FA22X7R1H335KNU00	FA22X7R1H335KNU06
X7R	4.7uF	±10%	50	FA22X7R1H475KRU00	FA22X7R1H475KRU06
X7R	6.8uF	±10%	50	FA22X7R1H685KRU00	FA22X7R1H685KRU06
X7R	1.5uF	±10%	100	FA22X7R2A155KNU00	FA22X7R2A155KNU06
X7R	2.2uF	±10%	100	FA22X7R2A225KNU00	FA22X7R2A225KNU06
X7R	330nF	±10%	250	FA22X7R2E334KNU00	FA22X7R2E334KNU06
X7R	470nF	±10%	250	FA22X7R2E474KNU00	FA22X7R2E474KNU06
X7R	100nF	±10%	630	FA22X7R2J104KNU00	FA22X7R2J104KNU06
X7T	680nF	±10%	250	FA22X7T2E684KNU00	FA22X7T2E684KNU06
X7T	1uF	±10%	250	FA22X7T2E105KNU00	FA22X7T2E105KNU06

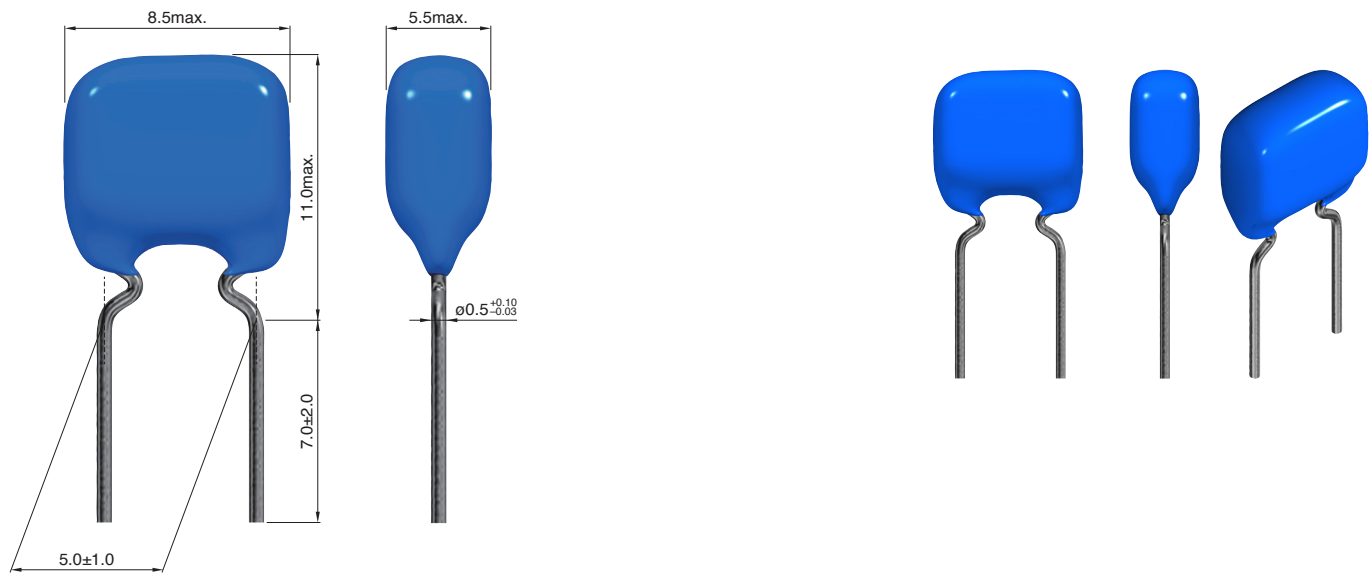
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

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

FA23 type

■ SHAPE & DIMENSIONS



Dimensions in mm

CAPACITORS



FA23 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	FA23C0G2A154JNU00	FA23C0G2A154JNU06
C0G	150nF	±5%	250	FA23C0G2E154JRU00	FA23C0G2E154JRU06
C0G	100nF	±5%	450	FA23C0G2W104JNU00	FA23C0G2W104JNU06
C0G	68nF	±5%	630	FA23C0G2J683JRU00	FA23C0G2J683JRU06
C0G	100nF	±5%	630	FA23C0G2J104JRU00	FA23C0G2J104JRU06

Click the part numbers for details.

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

CLASS 2 (TEMPERATURE STABLE)

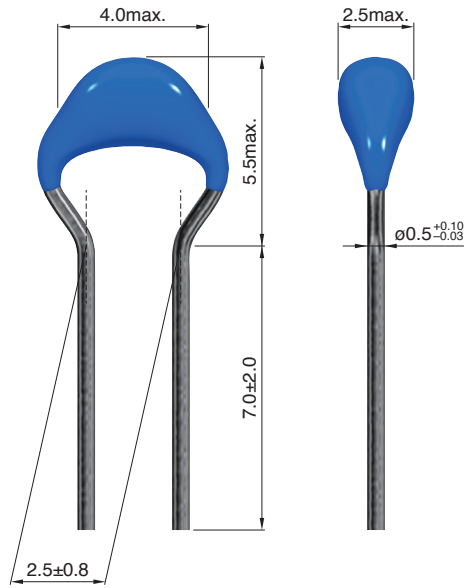
Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*	
				Separate	Taping
X7R	22µF	±20%	25	FA23X7R1E226MNU00	FA23X7R1E226MNU06
X7R	10µF	±10%	50	FA23X7R1H106KRU00	FA23X7R1H106KRU06
X7R	3.3µF	±10%	100	FA23X7R2A335KNU00	FA23X7R2A335KNU06
X7R	4.7µF	±10%	100	FA23X7R2A475KNU00	FA23X7R2A475KNU06
X7R	680nF	±10%	250	FA23X7R2E684KNU00	FA23X7R2E684KNU06
X7R	1µF	±10%	250	FA23X7R2E105KNU00	FA23X7R2E105KNU06
X7R	150nF	±10%	630	FA23X7R2J154KNU00	FA23X7R2J154KNU06
X7R	220nF	±10%	630	FA23X7R2J224KNU00	FA23X7R2J224KNU06
X7S	6.8µF	±10%	100	FA23X7S2A685KRU00	FA23X7S2A685KRU06
X7S	10µF	±10%	100	FA23X7S2A106KRU00	FA23X7S2A106KRU06
X7S	15µF	±20%	100	FA23X7S2A156MRU00	FA23X7S2A156MRU06
X7T	1.5µF	±10%	250	FA23X7T2E155KNU00	FA23X7T2E155KNU06
X7T	2.2µF	±10%	250	FA23X7T2E225KNU00	FA23X7T2E225KNU06

Click the part numbers for details.

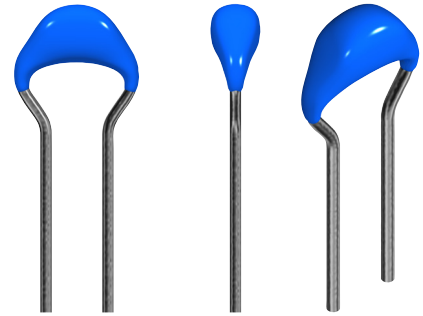
* The part numbers are TDK's standard specification products.

FA18 type

SHAPE & DIMENSIONS



Dimensions in mm



FA18 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	FA18C0G1H010CNU00	FA18C0G1H010CNU06
C0G	1.5pF	±0.25pF	50	FA18C0G1H1R5CNU00	FA18C0G1H1R5CNU06
C0G	2.2pF	±0.25pF	50	FA18C0G1H2R2CNU00	FA18C0G1H2R2CNU06
C0G	3.3pF	±0.25pF	50	FA18C0G1H3R3CNU00	FA18C0G1H3R3CNU06
C0G	4.7pF	±0.25pF	50	FA18C0G1H4R7CNU00	FA18C0G1H4R7CNU06
C0G	6.8pF	±0.5pF	50	FA18C0G1H6R8DNU00	FA18C0G1H6R8DNU06
C0G	10pF	±0.5pF	50	FA18C0G1H100DNU00	FA18C0G1H100DNU06
C0G	15pF	±5%	50	FA18C0G1H150JNU00	FA18C0G1H150JNU06
C0G	22pF	±5%	50	FA18C0G1H220JNU00	FA18C0G1H220JNU06
C0G	33pF	±5%	50	FA18C0G1H330JNU00	FA18C0G1H330JNU06
C0G	47pF	±5%	50	FA18C0G1H470JNU00	FA18C0G1H470JNU06
C0G	68pF	±5%	50	FA18C0G1H680JNU00	FA18C0G1H680JNU06
C0G	100pF	±5%	50	FA18C0G1H101JNU00	FA18C0G1H101JNU06
C0G	120pF	±5%	50	FA18C0G1H121JNU00	FA18C0G1H121JNU06
C0G	150pF	±5%	50	FA18C0G1H151JNU00	FA18C0G1H151JNU06
C0G	180pF	±5%	50	FA18C0G1H181JNU00	FA18C0G1H181JNU06
C0G	220pF	±5%	50	FA18C0G1H221JNU00	FA18C0G1H221JNU06
C0G	270pF	±5%	50	FA18C0G1H271JNU00	FA18C0G1H271JNU06
C0G	330pF	±5%	50	FA18C0G1H331JNU00	FA18C0G1H331JNU06
C0G	390pF	±5%	50	FA18C0G1H391JNU00	FA18C0G1H391JNU06
C0G	470pF	±5%	50	FA18C0G1H471JNU00	FA18C0G1H471JNU06
C0G	560pF	±5%	50	FA18C0G1H561JNU00	FA18C0G1H561JNU06
C0G	680pF	±5%	50	FA18C0G1H681JNU00	FA18C0G1H681JNU06
C0G	820pF	±5%	50	FA18C0G1H821JNU00	FA18C0G1H821JNU06
C0G	1nF	±5%	50	FA18C0G1H102JNU00	FA18C0G1H102JNU06
C0G	1.2nF	±5%	50	FA18C0G1H122JNU00	FA18C0G1H122JNU06
C0G	1.5nF	±5%	50	FA18C0G1H152JNU00	FA18C0G1H152JNU06
C0G	1.8nF	±5%	50	FA18C0G1H182JNU00	FA18C0G1H182JNU06
C0G	2.2nF	±5%	50	FA18C0G1H222JNU00	FA18C0G1H222JNU06
C0G	2.7nF	±5%	50	FA18C0G1H272JNU00	FA18C0G1H272JNU06
C0G	3.3nF	±5%	50	FA18C0G1H332JNU00	FA18C0G1H332JNU06
C0G	3.9nF	±5%	50	FA18C0G1H392JNU00	FA18C0G1H392JNU06
C0G	4.7nF	±5%	50	FA18C0G1H472JNU00	FA18C0G1H472JNU06
C0G	5.6nF	±5%	50	FA18C0G1H562JNU00	FA18C0G1H562JNU06
C0G	6.8nF	±5%	50	FA18C0G1H682JNU00	FA18C0G1H682JNU06
C0G	8.2nF	±5%	50	FA18C0G1H822JNU00	FA18C0G1H822JNU06
C0G	10nF	±5%	50	FA18C0G1H103JNU00	FA18C0G1H103JNU06
C0G	1.0pF	±0.25pF	100	FA18C0G2A010CNU00	FA18C0G2A010CNU06
C0G	1.5pF	±0.25pF	100	FA18C0G2A1R5CNU00	FA18C0G2A1R5CNU06
C0G	2.2pF	±0.25pF	100	FA18C0G2A2R2CNU00	FA18C0G2A2R2CNU06
C0G	3.3pF	±0.25pF	100	FA18C0G2A3R3CNU00	FA18C0G2A3R3CNU06
C0G	4.7pF	±0.25pF	100	FA18C0G2A4R7CNU00	FA18C0G2A4R7CNU06
C0G	6.8pF	±0.5pF	100	FA18C0G2A6R8DNU00	FA18C0G2A6R8DNU06
C0G	10pF	±0.5pF	100	FA18C0G2A100DNU00	FA18C0G2A100DNU06
C0G	15pF	±5%	100	FA18C0G2A150JNU00	FA18C0G2A150JNU06
C0G	22pF	±5%	100	FA18C0G2A220JNU00	FA18C0G2A220JNU06
C0G	33pF	±5%	100	FA18C0G2A330JNU00	FA18C0G2A330JNU06
C0G	47pF	±5%	100	FA18C0G2A470JNU00	FA18C0G2A470JNU06
C0G	68pF	±5%	100	FA18C0G2A680JNU00	FA18C0G2A680JNU06
C0G	100pF	±5%	100	FA18C0G2A101JNU00	FA18C0G2A101JNU06

■ 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.

FA18 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*	
				Separate	Taping
C0G	120pF	±5%	100	FA18C0G2A121JNU00	FA18C0G2A121JNU06
C0G	150pF	±5%	100	FA18C0G2A151JNU00	FA18C0G2A151JNU06
C0G	180pF	±5%	100	FA18C0G2A181JNU00	FA18C0G2A181JNU06
C0G	220pF	±5%	100	FA18C0G2A221JNU00	FA18C0G2A221JNU06
C0G	270pF	±5%	100	FA18C0G2A271JNU00	FA18C0G2A271JNU06
C0G	330pF	±5%	100	FA18C0G2A331JNU00	FA18C0G2A331JNU06
C0G	390pF	±5%	100	FA18C0G2A391JNU00	FA18C0G2A391JNU06
C0G	470pF	±5%	100	FA18C0G2A471JNU00	FA18C0G2A471JNU06
C0G	560pF	±5%	100	FA18C0G2A561JNU00	FA18C0G2A561JNU06
C0G	680pF	±5%	100	FA18C0G2A681JNU00	FA18C0G2A681JNU06
C0G	820pF	±5%	100	FA18C0G2A821JNU00	FA18C0G2A821JNU06
C0G	1nF	±5%	100	FA18C0G2A102JNU00	FA18C0G2A102JNU06
C0G	1.2nF	±5%	100	FA18C0G2A122JNU00	FA18C0G2A122JNU06
C0G	1.5nF	±5%	100	FA18C0G2A152JNU00	FA18C0G2A152JNU06
C0G	1.8nF	±5%	100	FA18C0G2A182JNU00	FA18C0G2A182JNU06
C0G	2.2nF	±5%	100	FA18C0G2A222JNU00	FA18C0G2A222JNU06
C0G	2.7nF	±5%	100	FA18C0G2A272JNU00	FA18C0G2A272JNU06
C0G	3.3nF	±5%	100	FA18C0G2A332JNU00	FA18C0G2A332JNU06
C0G	3.9nF	±5%	100	FA18C0G2A392JRU00	FA18C0G2A392JRU06
C0G	4.7nF	±5%	100	FA18C0G2A472JRU00	FA18C0G2A472JRU06
C0G	5.6nF	±5%	100	FA18C0G2A562JRU00	FA18C0G2A562JRU06
C0G	6.8nF	±5%	100	FA18C0G2A682JRU00	FA18C0G2A682JRU06
C0G	8.2nF	±5%	100	FA18C0G2A822JRU00	FA18C0G2A822JRU06
C0G	10nF	±5%	100	FA18C0G2A103JRU00	FA18C0G2A103JRU06

■ 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.

FA18 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 2 (TEMPERATURE STABLE)

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*	
				Separate	Taping
X7R	150nF	±10%	25	FA18X7R1E154KNU00	FA18X7R1E154KNU06
X7R	680nF	±10%	25	FA18X7R1E684KRU00	FA18X7R1E684KRU06
X7R	1uF	±10%	25	FA18X7R1E105KRU00	FA18X7R1E105KRU06
X7R	1nF	±10%	50	FA18X7R1H102KNU00	FA18X7R1H102KNU06
X7R	1.5nF	±10%	50	FA18X7R1H152KNU00	FA18X7R1H152KNU06
X7R	2.2nF	±10%	50	FA18X7R1H222KNU00	FA18X7R1H222KNU06
X7R	3.3nF	±10%	50	FA18X7R1H332KNU00	FA18X7R1H332KNU06
X7R	4.7nF	±10%	50	FA18X7R1H472KNU00	FA18X7R1H472KNU06
X7R	6.8nF	±10%	50	FA18X7R1H682KNU00	FA18X7R1H682KNU06
X7R	10nF	±10%	50	FA18X7R1H103KNU00	FA18X7R1H103KNU06
X7R	15nF	±10%	50	FA18X7R1H153KNU00	FA18X7R1H153KNU06
X7R	22nF	±10%	50	FA18X7R1H223KNU00	FA18X7R1H223KNU06
X7R	33nF	±10%	50	FA18X7R1H333KNU00	FA18X7R1H333KNU06
X7R	47nF	±10%	50	FA18X7R1H473KNU00	FA18X7R1H473KNU06
X7R	68nF	±10%	50	FA18X7R1H683KNU00	FA18X7R1H683KNU06
X7R	100nF	±10%	50	FA18X7R1H104KNU00	FA18X7R1H104KNU06
X7R	150nF	±10%	50	FA18X7R1H154KRU00	FA18X7R1H154KRU06
X7R	220nF	±10%	50	FA18X7R1H224KRU00	FA18X7R1H224KRU06
X7R	330nF	±10%	50	FA18X7R1H334KRU00	FA18X7R1H334KRU06
X7R	470nF	±10%	50	FA18X7R1H474KRU00	FA18X7R1H474KRU06
X7R	1nF	±10%	100	FA18X7R2A102KNU00	FA18X7R2A102KNU06
X7R	1.5nF	±10%	100	FA18X7R2A152KNU00	FA18X7R2A152KNU06
X7R	2.2nF	±10%	100	FA18X7R2A222KNU00	FA18X7R2A222KNU06
X7R	3.3nF	±10%	100	FA18X7R2A332KNU00	FA18X7R2A332KNU06
X7R	4.7nF	±10%	100	FA18X7R2A472KNU00	FA18X7R2A472KNU06
X7R	6.8nF	±10%	100	FA18X7R2A682KNU00	FA18X7R2A682KNU06
X7R	10nF	±10%	100	FA18X7R2A103KNU00	FA18X7R2A103KNU06
X7R	15nF	±10%	100	FA18X7R2A153KNU00	FA18X7R2A153KNU06
X7R	22nF	±10%	100	FA18X7R2A223KNU00	FA18X7R2A223KNU06
X7S	33nF	±10%	100	FA18X7S2A333KRU00	FA18X7S2A333KRU06
X7S	47nF	±10%	100	FA18X7S2A473KRU00	FA18X7S2A473KRU06
X7S	68nF	±10%	100	FA18X7S2A683KRU00	FA18X7S2A683KRU06
X7S	100nF	±10%	100	FA18X7S2A104KRU00	FA18X7S2A104KRU06

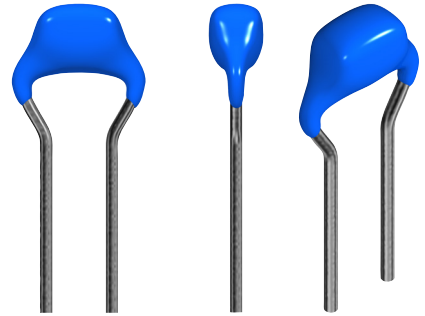
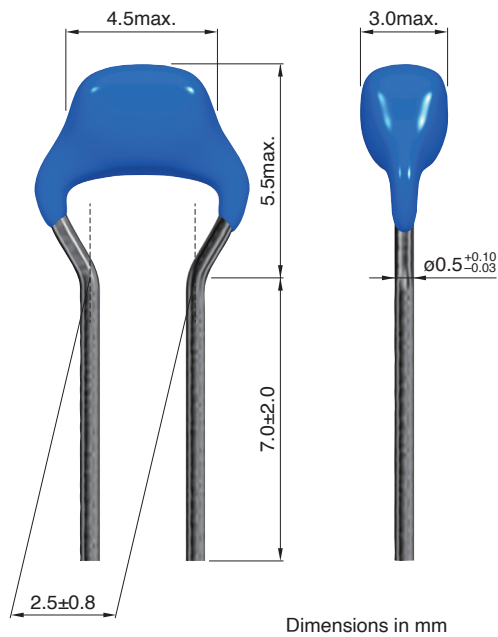
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

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

FA14 type

■ SHAPE & DIMENSIONS



CAPACITORS



FA14 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	FA14C0G1H153JNU00	FA14C0G1H153JNU06
C0G	22nF	±5%	50	FA14C0G1H223JNU00	FA14C0G1H223JNU06
C0G	33nF	±5%	50	FA14C0G1H333JNU00	FA14C0G1H333JNU06
C0G	3.9nF	±5%	100	FA14C0G2A392JNU00	FA14C0G2A392JNU06
C0G	4.7nF	±5%	100	FA14C0G2A472JNU00	FA14C0G2A472JNU06
C0G	5.6nF	±5%	100	FA14C0G2A562JNU00	FA14C0G2A562JNU06
C0G	6.8nF	±5%	100	FA14C0G2A682JNU00	FA14C0G2A682JNU06
C0G	8.2nF	±5%	100	FA14C0G2A822JNU00	FA14C0G2A822JNU06
C0G	10nF	±5%	100	FA14C0G2A103JNU00	FA14C0G2A103JNU06
C0G	15nF	±5%	100	FA14C0G2A153JRU00	FA14C0G2A153JRU06
C0G	22nF	±5%	100	FA14C0G2A223JRU00	FA14C0G2A223JRU06
C0G	33nF	±5%	100	FA14C0G2A333JRU00	FA14C0G2A333JRU06

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	470nF	±10%	25	FA14X7R1E474KNU00	FA14X7R1E474KNU06
X7R	3.3uF	±10%	25	FA14X7R1E335KRU00	FA14X7R1E335KRU06
X7R	4.7uF	±10%	25	FA14X7R1E475KRU00	FA14X7R1E475KRU06
X7R	150nF	±10%	50	FA14X7R1H154KNU00	FA14X7R1H154KNU06
X7R	220nF	±10%	50	FA14X7R1H224KNU00	FA14X7R1H224KNU06
X7R	330nF	±10%	50	FA14X7R1H334KNU00	FA14X7R1H334KNU06
X7R	680nF	±10%	50	FA14X7R1H684KRU00	FA14X7R1H684KRU06
X7R	1uF	±10%	50	FA14X7R1H105KRU00	FA14X7R1H105KRU06
X7R	1.5uF	±10%	50	FA14X7R1H155KRU00	FA14X7R1H155KRU06
X7R	2.2uF	±10%	50	FA14X7R1H225KRU00	FA14X7R1H225KRU06
X7R	33nF	±10%	100	FA14X7R2A333KNU00	FA14X7R2A333KNU06
X7R	47nF	±10%	100	FA14X7R2A473KNU00	FA14X7R2A473KNU06
X7R	68nF	±10%	100	FA14X7R2A683KNU00	FA14X7R2A683KNU06
X7R	100nF	±10%	100	FA14X7R2A104KNU00	FA14X7R2A104KNU06
X7S	150nF	±10%	100	FA14X7S2A154KRU00	FA14X7S2A154KRU06
X7S	220nF	±10%	100	FA14X7S2A224KRU00	FA14X7S2A224KRU06
X7S	330nF	±10%	100	FA14X7S2A334KRU00	FA14X7S2A334KRU06
X7S	470nF	±10%	100	FA14X7S2A474KRU00	FA14X7S2A474KRU06
X7S	680nF	±10%	100	FA14X7S2A684KRU00	FA14X7S2A684KRU06
X7S	1uF	±10%	100	FA14X7S2A105KRU00	FA14X7S2A105KRU06

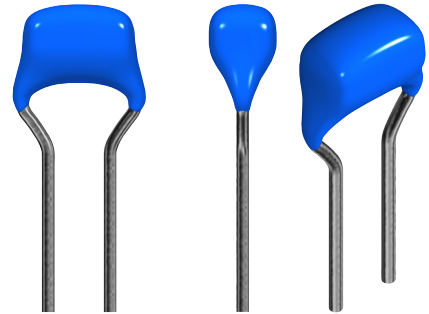
■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

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

FA16 type

■ SHAPE & DIMENSIONS



FA16 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	FA16C0G1H473JNU00	FA16C0G1H473JNU06
C0G	68nF	±5%	50	FA16C0G1H683JNU00	FA16C0G1H683JNU06
C0G	100nF	±5%	50	FA16C0G1H104JNU00	FA16C0G1H104JNU06
C0G	15nF	±5%	100	FA16C0G2A153JNU00	FA16C0G2A153JNU06
C0G	22nF	±5%	100	FA16C0G2A223JNU00	FA16C0G2A223JNU06
C0G	33nF	±5%	100	FA16C0G2A333JNU00	FA16C0G2A333JNU06
C0G	47nF	±5%	100	FA16C0G2A473JRU00	FA16C0G2A473JRU06
C0G	68nF	±5%	100	FA16C0G2A683JRU00	FA16C0G2A683JRU06
C0G	100nF	±5%	100	FA16C0G2A104JRU00	FA16C0G2A104JRU06

Click the part numbers for details.

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

CLASS 2 (TEMPERATURE STABLE)

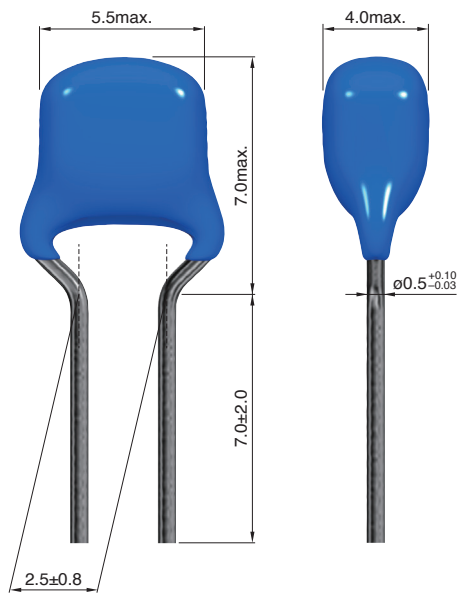
Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*	
				Separate	Taping
X7R	1uF	±10%	25	FA16X7R1E105KNU00	FA16X7R1E105KNU06
X7R	1.5uF	±10%	25	FA16X7R1E155KNU00	FA16X7R1E155KNU06
X7R	2.2uF	±10%	25	FA16X7R1E225KNU00	FA16X7R1E225KNU06
X7R	6.8uF	±10%	25	FA16X7R1E685KRU00	FA16X7R1E685KRU06
X7R	10uF	±10%	25	FA16X7R1E106KRU00	FA16X7R1E106KRU06
X7R	470nF	±10%	50	FA16X7R1H474KNU00	FA16X7R1H474KNU06
X7R	680nF	±10%	50	FA16X7R1H684KNU00	FA16X7R1H684KNU06
X7R	3.3uF	±10%	50	FA16X7R1H335KRU00	FA16X7R1H335KRU06
X7R	4.7uF	±10%	50	FA16X7R1H475KRU00	FA16X7R1H475KRU06
X7R	150nF	±10%	100	FA16X7R2A154KNU00	FA16X7R2A154KNU06
X7R	220nF	±10%	100	FA16X7R2A224KNU00	FA16X7R2A224KNU06
X7R	330nF	±10%	100	FA16X7R2A334KNU00	FA16X7R2A334KNU06
X7R	470nF	±10%	100	FA16X7R2A474KNU00	FA16X7R2A474KNU06
X7R	680nF	±10%	100	FA16X7R2A684KNU00	FA16X7R2A684KNU06
X7R	1uF	±10%	100	FA16X7R2A105KNU00	FA16X7R2A105KNU06
X7S	1.5uF	±10%	100	FA16X7S2A155KRU00	FA16X7S2A155KRU06
X7S	2.2uF	±10%	100	FA16X7S2A225KRU00	FA16X7S2A225KRU06
X7S	3.3uF	±10%	100	FA16X7S2A335KRU00	FA16X7S2A335KRU06

Click the part numbers for details.

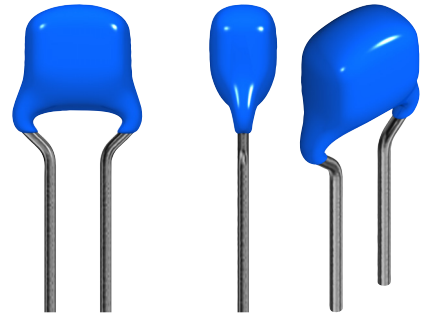
* The part numbers are TDK's standard specification products.

FA11 type

■ SHAPE & DIMENSIONS



Dimensions in mm



FA11 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	FA11C0G2A473JNU00	FA11C0G2A473JNU06
C0G	68nF	±5%	100	FA11C0G2A683JNU00	FA11C0G2A683JNU06

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	3.3uF	±10%	25	FA11X7R1E335KNU00	FA11X7R1E335KNU06
X7R	4.7uF	±10%	25	FA11X7R1E475KNU00	FA11X7R1E475KNU06
X7R	1uF	±10%	50	FA11X7R1H105KNU00	FA11X7R1H105KNU06
X7R	1.5uF	±10%	50	FA11X7R1H155KNU00	FA11X7R1H155KNU06
X7R	1.5uF	±10%	100	FA11X7R2A155KRU00	FA11X7R2A155KRU06
X7R	2.2uF	±10%	100	FA11X7R2A225KRU00	FA11X7R2A225KRU06
X7S	6.8uF	±10%	50	FA11X7S1H685KRU00	FA11X7S1H685KRU06
X7S	10uF	±10%	50	FA11X7S1H106KRU00	FA11X7S1H106KRU06
X7S	4.7uF	±10%	100	FA11X7S2A475KRU00	FA11X7S2A475KRU06

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

Click the part numbers for details.

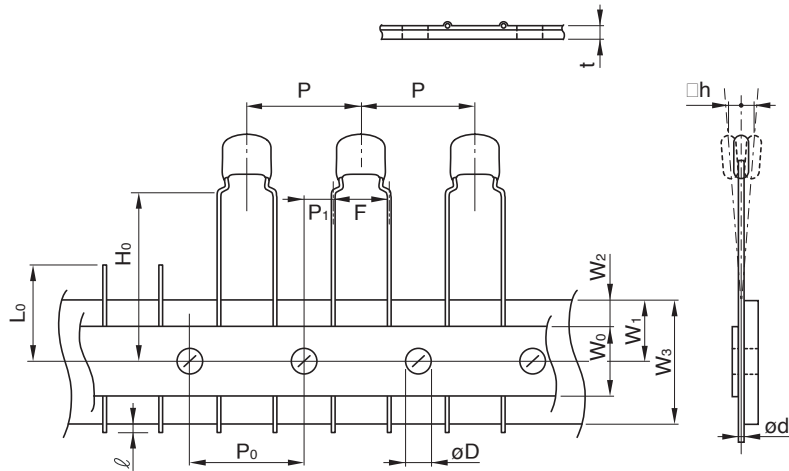
* The part numbers are TDK's standard specification products.

PACKAGING STYLE

TAPING DIMENSIONS

Lead pitch 5.0 mm

(FA28, FA24, FA26, FA20, FA22, FA23 type)



Symbol	Dimensions(mm)
P	(12.7)
P0	(12.7)
P1	(3.85)
W0	12.0±1.0
W1	9.0±0.5
W2*1	3.0max.
W3	18.0+1.0, -0.5
H0	16.0±0.8
l	1.0max.
t	0.6±0.2
L0*2	11.0max.
F*3	5.0+0.8, -0.2
ød	ø0.5+0.1, -0.03
øD	(ø4.0)
Dh	(±2)

The values in parentheses "()" are reference values.

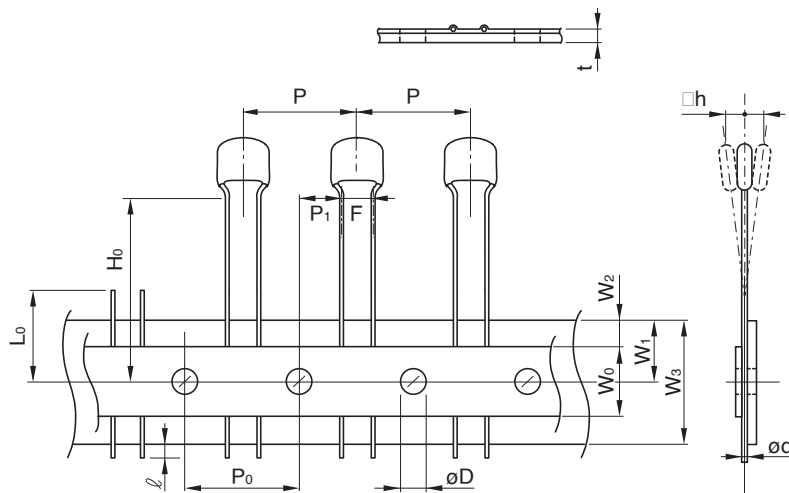
*1 Adhesive tape shall not stick out from carrier tape.

*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

(FA18, FA14, FA16, FA11 type)



Symbol	Dimensions(mm)
P	(12.7)
P0	(12.7)
P1	(5.1)
W0	12.0±1.0
W1	9.0±0.5
W2*1	3.0max.
W3	18.0+1.0, -0.5
H0	16.0±0.8
l	1.0max.
t	0.6±0.2
L0*2	11.0max.
F*3	2.5+0.5, -0.2
ød	ø0.5+0.1, -0.03
øD	(ø4.0)
Dh	(±2)

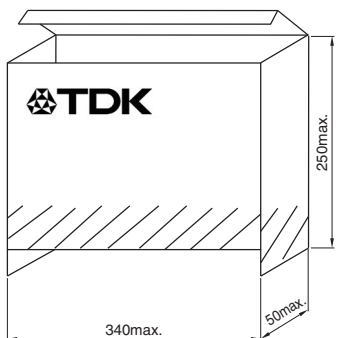
The values in parentheses "()" are reference values.

*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



Dimensions in mm

⚠ 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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