

MLCC with Dipped Radial Lead

Commercial Grade

General (Up to 50V) FK Series

Type: FK28, FK18

FK24, FK14 FK26, FK16 FK20, FK11 FK22

Issue date: March 2013

[•] All specifications are subject to change without notice.

[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

公TDK

MLCC with Dipped Radial Lead Commercial Grade

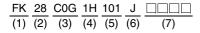
Conformity to RoHS Directive

General (Up to 50V) FK Series

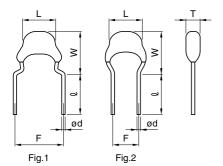
FEATURES

- High capacitance has been achieved through improvements in the thinning process of ceramic dielectric layers and multi-layer lamination technology.
- High reliability is maintained under specified environmental conditions.
- Low residual inductance and excellent frequency characteristics has been achieved.
- The leads are formed with a "kink" to achieve consistent insertion heights and facilitate the release of gases during soldering for dramatically improved solderability.
- Taping specifications are available for automatic insertions, which contribute to reduce on-board costs.

PRODUCT IDENTIFICATION



- (1) Series name
- (2) Dimensions and shapes of lead wire



Dimensions	in	mm

Туре	L max.	W max.	T max.	F	Q	ød	Fig
28	4.0	5.5	2.5	5.0±1.0	7±2	0.5+0.1,-0.03	1
24	4.5	5.5	2.5	5.0±1.0	7±2	0.5+0.1,-0.03	1
26	5.5	6.0	3.5	5.0±1.0	7±2	0.5+0.1,-0.03	1
20	5.5	7.0	4.0	5.0±1.0	7±2	0.5+0.1,-0.03	1
22	7.5	8.0	4.0	5.0±1.0	7±2	0.5+0.1,-0.03	1
18	4.0	5.5	2.5	2.5±0.8	5+3,-1	0.5+0.1,-0.03	2
14	4.5	5.5	2.5	2.5±0.8	5+3,-1	0.5+0.1,-0.03	2
16	5.5	6.0	3.5	2.5±0.8	5+3,-1	0.5+0.1,-0.03	2
11	5.5	7.0	4.0	2.5±0.8	5+3,-1	0.5+0.1,-0.03	2

(3) Capacitance temperature characteristics

Class 1 (Temperature compensation)

Temperature characteristics	Capacitance change	Temperature range	
COG	0±30ppm/°C	−55 to +125°C	

Class 2 (Temperature stable and general purpose)

` '	•	' ' '
Temperature characteristics	Capacitance change	Temperature range
X7R	±15%	−55 to +125°C
X5R	±15%	–55 to +85°C
X7S	±22%	–55 to +125°C

(4) Rated voltage Edc

0J	6.3V	
1A	10V	
1C	16V	
1E	25V	
1H	50V	

(5) Nominal capacitance

The capacitance is expressed in three digit codes and in units of pico farads (pF).

The first and second digits identify the first and second significant figures of the capacitance.

The third digit identifies the multiplier.

	J		•
0R5		0.5pF	
010		1pF	_
100		10pF	
102		1,000pF	

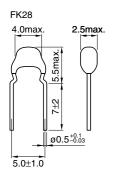
(6) Capacitance tolerance

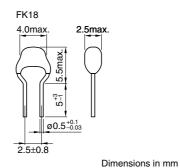
Symbol	Tolerance	Applicable capacitance range
С	±0.25pF	10pF max.
D	±0.5pF	TOPF Max.
J	±5%	
K	±10%	Over 10pF
М	±20%	

(7) TDK internal code

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CAPACITANCE RANGES: CLASS 1 (TEMPERATURE COMPENSATION) FK28 AND FK18 TYPES SHAPES AND DIMENSIONS

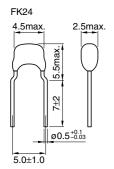


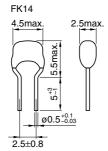


RATED VOLTAGE Edc: 50V

Temperature	O ''	T .	Rated voltage	Part No.	
characteristics	Capacitance	Tolerance	Edc(V)	FK28 type	FK18 type
COG	1pF	±0.25pF	50	FK28C0G1H010C	FK18C0G1H010C
COG	1.5pF	±0.25pF	50	FK28C0G1H1R5C	FK18C0G1H1R5C
COG	2pF	±0.25pF	50	FK28C0G1H020C	FK18C0G1H020C
COG	2.2pF	±0.25pF	50	FK28C0G1H2R2C	FK18C0G1H2R2C
COG	3pF	±0.25pF	50	FK28C0G1H030C	FK18C0G1H030C
COG	3.3pF	±0.25pF	50	FK28C0G1H3R3C	FK18C0G1H3R3C
COG	4pF	±0.25pF	50	FK28C0G1H040C	FK18C0G1H040C
COG	4.7pF	±0.25pF	50	FK28C0G1H4R7C	FK18C0G1H4R7C
COG	5pF	±0.25pF	50	FK28C0G1H050C	FK18C0G1H050C
COG	6pF	±0.5pF	50	FK28C0G1H060D	FK18C0G1H060D
COG	6.8pF	±0.5pF	50	FK28C0G1H6R8D	FK18C0G1H6R8D
COG	7pF	±0.5pF	50	FK28C0G1H070D	FK18C0G1H070D
COG	8pF	±0.5pF	50	FK28C0G1H080D	FK18C0G1H080D
COG	9pF	±0.5pF	50	FK28C0G1H090D	FK18C0G1H090D
COG	10pF	±0.5pF	50	FK28C0G1H100D	FK18C0G1H100D
COG	12pF	±5%	50	FK28C0G1H120J	FK18C0G1H120J
COG	15pF	±5%	50	FK28C0G1H150J	FK18C0G1H150J
COG	18pF	±5%	50	FK28C0G1H180J	FK18C0G1H180J
COG	22pF	±5%	50	FK28C0G1H220J	FK18C0G1H220J
COG	27pF	±5%	50	FK28C0G1H270J	FK18C0G1H270J
COG	33pF	±5%	50	FK28C0G1H330J	FK18C0G1H330J
COG	39pF	±5%	50	FK28C0G1H390J	FK18C0G1H390J
COG	47pF	±5%	50	FK28C0G1H470J	FK18C0G1H470J
COG	56pF	±5%	50	FK28C0G1H560J	FK18C0G1H560J
COG	68pF	±5%	50	FK28C0G1H680J	FK18C0G1H680J
COG	82pF	±5%	50	FK28C0G1H820J	FK18C0G1H820J
COG	100pF	±5%	50	FK28C0G1H101J	FK18C0G1H101J
COG	120pF	±5%	50	FK28C0G1H121J	FK18C0G1H121J
COG	150pF	±5%	50	FK28C0G1H151J	FK18C0G1H151J
COG	180pF	±5%	50	FK28C0G1H181J	FK18C0G1H181J
COG	220pF	±5%	50	FK28C0G1H221J	FK18C0G1H221J
COG	270pF	±5%	50	FK28C0G1H271J	FK18C0G1H271J
COG	330pF	±5%	50	FK28C0G1H331J	FK18C0G1H331J
COG	390pF	±5%	50	FK28C0G1H391J	FK18C0G1H391J
COG	470pF	±5%	50	FK28C0G1H471J	FK18C0G1H471J
COG	560pF	±5%	50	FK28C0G1H4713	FK18C0G1H561J
COG	680pF	±5%	50	FK28C0G1H681J	FK18C0G1H681J
COG	820pF	±5%	50	FK28C0G1H821J	FK18C0G1H821J
COG	1000pF	±5%	50	FK28C0G1H102J	FK18C0G1H102J
COG	1200pF	±5%	50	FK28C0G1H1023	FK18C0G1H102J
COG	1500pF	±5% ±5%	50	FK28C0G1H152J	FK18C0G1H152J
COG	1800pF		50		
COG	·	±5%		FK28C0G1H182J	FK18C0G1H182J
	2200pF	±5%	50	FK28C0G1H222J	FK18C0G1H222J
COG	2700pF	±5%	50	FK28C0G1H272J	FK18C0G1H272J
C0G	3300pF	±5%	50	FK28C0G1H332J	FK18C0G1H332J
C0G	3900pF	±5%	50	FK28C0G1H392J	FK18C0G1H392J
COG	4700pF	±5%	50	FK28C0G1H472J	FK18C0G1H472J
COG	5600pF	±5%	50	FK28C0G1H562J	FK18C0G1H562J
COG	6800pF	±5%	50	FK28C0G1H682J	FK18C0G1H682J
COG	8200pF	±5%	50	FK28C0G1H822J	FK18C0G1H822J
C0G	10000pF	±5%	50	FK28C0G1H103J	FK18C0G1H103J

FK24 AND FK14 TYPES SHAPES AND DIMENSIONS



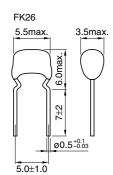


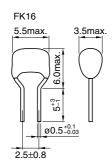
Dimensions in mm

RATED VOLTAGE Edc: 50V

Temperature	Consoitance	Tolerance	Rated voltage	Part No.	
characteristics	Capacitance	roierance	Edc(V)	FK24 type	FK14 type
C0G	2700pF	±5%	50	FK24C0G1H272J	FK14C0G1H272J
C0G	3300pF	±5%	50	FK24C0G1H332J	FK14C0G1H332J
C0G	3900pF	±5%	50	FK24C0G1H392J	FK14C0G1H392J
C0G	4700pF	±5%	50	FK24C0G1H472J	FK14C0G1H472J
C0G	5600pF	±5%	50	FK24C0G1H562J	FK14C0G1H562J
C0G	6800pF	±5%	50	FK24C0G1H682J	FK14C0G1H682J
C0G	8200pF	±5%	50	FK24C0G1H822J	FK14C0G1H822J
C0G	10000pF	±5%	50	FK24C0G1H103J	FK14C0G1H103J
C0G	15000pF	±5%	50	FK24C0G1H153J	FK14C0G1H153J
C0G	22000pF	±5%	50	FK24C0G1H223J	FK14C0G1H223J
C0G	33000pF	±5%	50	FK24C0G1H333J	FK14C0G1H333J

FK26 AND FK16 TYPES SHAPES AND DIMENSIONS



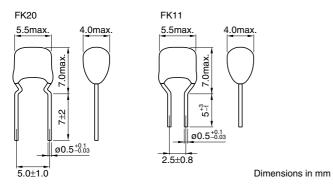


Dimensions in mm

RATED VOLTAGE Edc: 50V

Temperature	Consoitones	Tolerance	Rated voltage	Part No.	
characteristics	Capacitance	roierance	Edc(V)	FK26 type	FK16 type
C0G	4700pF	±5%	50	FK26C0G1H472J	FK16C0G1H472J
C0G	5600pF	±5%	50	FK26C0G1H562J	FK16C0G1H562J
C0G	6800pF	±5%	50	FK26C0G1H682J	FK16C0G1H682J
C0G	8200pF	±5%	50	FK26C0G1H822J	FK16C0G1H822J
C0G	10000pF	±5%	50	FK26C0G1H103J	FK16C0G1H103J
C0G	15000pF	±5%	50	FK26C0G1H153J	FK16C0G1H153J
C0G	22000pF	±5%	50	FK26C0G1H223J	FK16C0G1H223J
C0G	33000pF	±5%	50	FK26C0G1H333J	FK16C0G1H333J
C0G	47000pF	±5%	50	FK26C0G1H473J	FK16C0G1H473J
C0G	68000pF	±5%	50	FK26C0G1H683J	FK16C0G1H683J
C0G	0.1μF	±5%	50	FK26C0G1H104J	FK16C0G1H104J

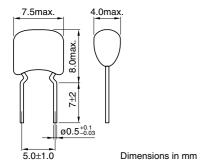
FK20 AND FK11 TYPES SHAPES AND DIMENSIONS



RATED VOLTAGE Edc: 50V

Temperature	Capacitance	Tolerance	Rated voltage	Part No.	
characteristics	Сараспапсе	idierance	Edc(V)	FK20 type	FK11 type
C0G	22000pF	±5%	50	FK20C0G1H223J	FK11C0G1H223J
C0G	33000pF	±5%	50	FK20C0G1H333J	FK11C0G1H333J
C0G	47000pF	±5%	50	FK20C0G1H473J	FK11C0G1H473J
C0G	68000pF	±5%	50	FK20C0G1H683J	FK11C0G1H683J
C0G	0.1µF	±5%	50	FK20C0G1H104J	FK11C0G1H104J

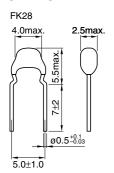
FK22 TYPE SHAPES AND DIMENSIONS

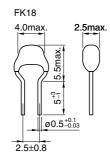


RATED VOLTAGE Edc: 50V

Temperature	Capacitance	Tolerance	Rated voltage	Part No.	
characteristics	Сараспансе	Tolerance	Edc(V)	FK22 type	
C0G	0.15µF	±5%	50	FK22C0G1H154J	
C0G	0.22µF	±5%	50	FK22C0G1H224J	

CAPACITANCE RANGES: CLASS 2 (TEMPERATURE STABLE) FK28 AND FK18 TYPES SHAPES AND DIMENSIONS





Dimensions in mm

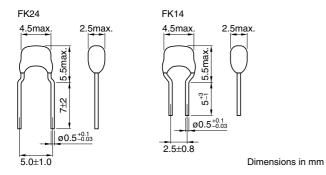
Capacitance	Tolerance			
1000 E		Edc(V)	FK28 type	FK18 type
1000pF	±10%	50	FK28X7R1H102K	FK18X7R1H102K
1500pF	±10%	50	FK28X7R1H152K	FK18X7R1H152K
2200pF	±10%	50	FK28X7R1H222K	FK18X7R1H222K
3300pF	±10%	50	FK28X7R1H332K	FK18X7R1H332K
4700pF	±10%	50	FK28X7R1H472K	FK18X7R1H472K
6800pF	±10%	50	FK28X7R1H682K	FK18X7R1H682K
10000pF	±10%	50	FK28X7R1H103K	FK18X7R1H103K
15000pF	±10%	50	FK28X7R1H153K	FK18X7R1H153K
22000pF	±10%	50	FK28X7R1H223K	FK18X7R1H223K
33000pF	±10%	50	FK28X7R1H333K	FK18X7R1H333K
47000pF	±10%	50	FK28X7R1H473K	FK18X7R1H473K
68000pF	±10%	50	FK28X7R1H683K	FK18X7R1H683K
0.1µF	±10%	50	FK28X7R1H104K	FK18X7R1H104K
0.15µF	±10%	50	FK28X7R1H154K	FK18X7R1H154K
0.22µF	±10%	50	FK28X7R1H224K	FK18X7R1H224K
0.1µF	±10%	25	FK28X7R1E104K	FK18X7R1E104K
0.15µF	±10%	25	FK28X7R1E154K	FK18X7R1E154K
0.22µF	±10%	25	FK28X7R1E224K	FK18X7R1E224K
0.33µF	±10%	25	FK28X7R1E334K	FK18X7R1E334K
0.47µF	±10%	25	FK28X7R1E474K	FK18X7R1E474K
•	±10%	25	FK28X7R1E684K	FK18X7R1E684K
				FK18X7R1E105K
				FK18X7R1C224K
0.33µF	±10%	16	FK28X7R1C334K	FK18X7R1C334K
0.47µF	±10%	16	FK28X7R1C474K	FK18X7R1C474K
0.68µF	±10%	16	FK28X7R1C684K	FK18X7R1C684K
1µF	±10%	16	FK28X7R1C105K	FK18X7R1C105K
1.5uF		6.3	FK28X7R0J155K	FK18X7R0J155K
•				FK18X7R0J225K
0.22µF	±10%	25	FK28X5R1E224K	FK18X5R1E224K
0.33µF	±10%	25	FK28X5R1E334K	FK18X5R1E334K
0.47µF	±10%	25	FK28X5R1E474K	FK18X5R1E474K
0.68µF	±10%	25	FK28X5R1E684K	FK18X5R1E684K
	±10%	25	FK28X5R1E105K	FK18X5R1E105K
<u> </u>	±10%	16	FK28X5R1C474K	FK18X5R1C474K
	±10%	16	FK28X5R1C684K	FK18X5R1C684K
1µF	±10%	16	FK28X5R1C105K	FK18X5R1C105K
1.5µF	±10%	16	FK28X5R1C155K	FK18X5R1C155K
2.2µF	±10%	16	FK28X5R1C225K	FK18X5R1C225K
0.33µF	±10%	10	FK28X5R1A334K	FK18X5R1A334K
0.47µF	±10%	10	FK28X5R1A474K	FK18X5R1A474K
	±10%	10	FK28X5R1A684K	FK18X5R1A684K
1μF	±10%	10	FK28X5R1A105K	FK18X5R1A105K
		10		FK18X5R1A155K
				FK18X5R1A225K
3.3µF	±10%	10	FK28X5R1A335K	FK18X5R1A335K
4.7µF	±10%	10	FK28X5R1A475K	FK18X5R1A475K
	3300pF 4700pF 6800pF 10000pF 15000pF 22000pF 33000pF 47000pF 68000pF 0.1µF 0.15µF 0.22µF 0.1µF 0.22µF 0.33µF 0.47µF 0.68µF 1µF 1.5µF 2.2µF 0.33µF 0.47µF	3300pF ±10% 4700pF ±10% 6800pF ±10% 10000pF ±10% 15000pF ±10% 22000pF ±10% 33000pF ±10% 47000pF ±10% 68000pF ±10% 68000pF ±10% 0.1µF ±10% 0.15µF ±10% 0.22µF ±10% 0.22µF ±10% 0.33µF ±10% 0.47µF ±10% 0.68µF ±10% 0.33µF ±10% 0.22µF ±10% 0.033µF ±10% 0.047µF ±10% 0.22µF ±10% 0.033µF ±10% 0.047µF ±10% 0.047µF ±10% 0.058µF ±10% 0.047µF ±10% 0.068µF ±10% 0.047µF ±10% 0.047µF ±10% 0.050µF ±10% 0.050µ	3300pF ±10% 50 4700pF ±10% 50 6800pF ±10% 50 10000pF ±10% 50 15000pF ±10% 50 22000pF ±10% 50 33000pF ±10% 50 33000pF ±10% 50 47000pF ±10% 50 68000pF ±10% 50 68000pF ±10% 50 0.1μF ±10% 50 0.15μF ±10% 50 0.22μF ±10% 50 0.15μF ±10% 25 0.15μF ±10% 25 0.33μF ±10% 25 0.33μF ±10% 25 0.47μF ±10% 25 0.22μF ±10% 50 0.22μF ±10% 50 0.47μF ±10% 25 0.33μF ±10% 25 0.47μF ±10% 25 0.22μF ±10% 50 0.22μF ±10% 50 0.22μF ±10% 50 0.33μF ±10% 55 0.47μF ±10% 55 0.22μF ±10% 56 0.33μF ±10% 56 0.33μF ±10% 56 0.47μF ±10% 56 0.47μF ±10% 56 0.68μF ±10% 56 0.68μF ±10% 56 0.33μF ±10% 56 0.68μF ±10% 56 0.47μF ±10% 56 0.33μF ±10% 56 0.47μF ±10% 56 0.68μF ±10% 5	3300pF ±10% 50 FK28X7R1H332K 4700pF ±10% 50 FK28X7R1H32K 6800pF ±10% 50 FK28X7R1H472K 6800pF ±10% 50 FK28X7R1H33K 10000pF ±10% 50 FK28X7R1H103K 15000pF ±10% 50 FK28X7R1H103K 22000pF ±10% 50 FK28X7R1H133K 47000pF ±10% 50 FK28X7R1H233K 47000pF ±10% 50 FK28X7R1H233K 47000pF ±10% 50 FK28X7R1H333K 47000pF ±10% 50 FK28X7R1H333K 47000pF ±10% 50 FK28X7R1H333K 47000pF ±10% 50 FK28X7R1H33K 68000pF ±10% 50 FK28X7R1H33K 68000pF ±10% 50 FK28X7R1H34K 0.15μF ±10% 50 FK28X7R1H34K 0.22μF ±10% 50 FK28X7R1H224K 0.15μF ±10% 25 FK28X7R1H224K 0.15μF ±10% 25 FK28X7R1E154K 0.22μF ±10% 25 FK28X7R1E154K 0.22μF ±10% 25 FK28X7R1E34K 0.47μF ±10% 25 FK28X7R1E34K 0.47μF ±10% 25 FK28X7R1E34K 0.47μF ±10% 25 FK28X7R1E34K 0.43μF ±10% 25 FK28X7R1E34K 0.43μF ±10% 25 FK28X7R1E34K 0.43μF ±10% 25 FK28X7R1E34K 0.43μF ±10% 25 FK28X7R1E34K 0.22μF ±10% 6.6 FK28X7R1E34K 0.33μF ±10% 6.6 FK28X7R1C334K 1μF ±10% 6.6 FK28X7R1C334K 1μF ±10% 6.6 FK28X7R1C334K 0.47μF ±10% 6.6 FK28X7R1C334K 0.47μF ±10% 6.7 FK28X7R1C334K 0.47μF ±10% 6.8 FK28X7R1C334K 0.47μF ±10% 6.9 FK28X7R1C334K 1μF ±10% 6.9 FK28X5R1C355K 0.22μF ±10% 6.9 FK28X5R1A335K 0.47μF ±10

[•] All specifications are subject to change without notice.

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Temperature Capacitance characteristics	Canacitanas	Talavanaa	Rated voltage	Part No.	
	Tolerance	Edc(V)	FK28 type	FK18 type	
X5R	1μF	±10%	6.3	FK28X5R0J105K	FK18X5R0J105K
X5R	1.5µF	±10%	6.3	FK28X5R0J155K	FK18X5R0J155K
X5R	2.2µF	±10%	6.3	FK28X5R0J225K	FK18X5R0J225K
X5R	3.3µF	±10%	6.3	FK28X5R0J335K	FK18X5R0J335K
X5R	4.7µF	±10%	6.3	FK28X5R0J475K	FK18X5R0J475K
X5R	6.8µF	±10%	6.3	FK28X5R0J685K	FK18X5R0J685K
X5R	10μF	±20%	6.3	FK28X5R0J106M	FK18X5R0J106M

FK24 AND FK14 TYPES SHAPES AND DIMENSIONS

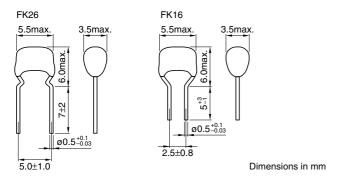


RATED VOLTAGE Edc: 6.3 to 50V

Temperature	Capacitance	Tolerance	Rated voltage	Part No.	
characteristics	Capacitance	roierance	Edc(V)	FK24 type	FK14 type
X7R	0.15μF	±10%	50	FK24X7R1H154K	FK14X7R1H154K
X7R	0.22µF	±10%	50	FK24X7R1H224K	FK14X7R1H224K
X7R	0.33µF	±10%	50	FK24X7R1H334K	FK14X7R1H334K
X7R	0.47μF	±10%	50	FK24X7R1H474K	FK14X7R1H474K
X7R	0.68µF	±10%	50	FK24X7R1H684K	FK14X7R1H684K
X7R	1µF	±10%	50	FK24X7R1H105K	FK14X7R1H105K
X7R	0.47μF	±10%	25	FK24X7R1E474K	FK14X7R1E474K
X7R	0.68μF	±10%	25	FK24X7R1E684K	FK14X7R1E684K
X7R	1μF	±10%	25	FK24X7R1E105K	FK14X7R1E105K
X7R	1.5µF	±10%	25	FK24X7R1E155K	FK14X7R1E155K
X7R	2.2µF	±10%	25	FK24X7R1E225K	FK14X7R1E225K
X7R	3.3µF	±10%	25	FK24X7R1E335K	FK14X7R1E335K
X7R	4.7μF	±10%	25	FK24X7R1E475K	FK14X7R1E475K
X7R	0.68µF	±10%	16	FK24X7R1C684K	FK14X7R1C684K
X7R	1μF	±10%	16	FK24X7R1C105K	FK14X7R1C105K
X7R	1.5µF	±10%	16	FK24X7R1C155K	FK14X7R1C155K
X7R	2.2µF	±10%	16	FK24X7R1C225K	FK14X7R1C225K
X7R	3.3µF	±10%	16	FK24X7R1C335K	FK14X7R1C335K
X7R	4.7µF	±10%	16	FK24X7R1C475K	FK14X7R1C475K
X7R	6.8µF	±10%	6.3	FK24X7R0J685K	FK14X7R0J685K
X7R	10μF	±10%	6.3	FK24X7R0J106K	FK14X7R0J106K
X5R	0.68µF	±10%	25	FK24X5R1E684K	FK14X5R1E684K
X5R	1μF	±10%	25	FK24X5R1E105K	FK14X5R1E105K
X5R	1.5µF	±10%	25	FK24X5R1E155K	FK14X5R1E155K
X5R	2.2µF	±10%	25	FK24X5R1E225K	FK14X5R1E225K
X5R	3.3µF	±10%	25	FK24X5R1E335K	FK14X5R1E335K
X5R	4.7μF	±10%	25	FK24X5R1E475K	FK14X5R1E475K
X5R		±10%	16	FK24X5R1C105K	FK14X5R1C105K
X5R	1.5µF	±10%	16	FK24X5R1C155K	FK14X5R1C155K
X5R	2.2µF	±10%	16	FK24X5R1C155K	FK14X5R1C155K
X5R	2.2μr 3.3μF	±10% ±10%	16		FK14X5R1C335K
X5R		±10%	16	FK24X5R1C335K	
	4.7µF			FK24X5R1C475K	FK14X5R1C475K
X5R X5R	10µF	±10%	16	FK24X5R1C106K	FK14X5R1C106K
	1.5µF	±10%	10	FK24X5R1A155K	FK14X5R1A155K
X5R	2.2µF	±10%	10	FK24X5R1A225K	FK14X5R1A225K
X5R	3.3µF	±10%	10	FK24X5R1A335K	FK14X5R1A335K
X5R	4.7μF	±10%	10	FK24X5R1A475K	FK14X5R1A475K
X5R	6.8µF	±10%	10	FK24X5R1A685K	FK14X5R1A685K
X5R	10μF	±10%	10	FK24X5R1A106K	FK14X5R1A106K
X5R	4.7μF	±10%	6.3	FK24X5R0J475K	FK14X5R0J475K
X5R	6.8µF	±10%	6.3	FK24X5R0J685K	FK14X5R0J685K
X5R	10μF	±10%	6.3	FK24X5R0J106K	FK14X5R0J106K
X5R	15μF	±20%	6.3	FK24X5R0J156M	FK14X5R0J156M
X5R	22μF	±20%	6.3	FK24X5R0J226M	FK14X5R0J226M

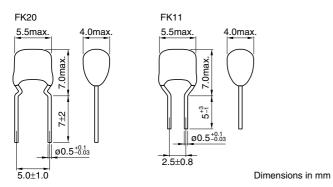
[•] All specifications are subject to change without notice.

FK26 AND FK16 TYPES SHAPES AND DIMENSIONS



Temperature	Conseitance	Talavanaa	Rated voltage	Part No.	
characteristics	Capacitance	Tolerance	Edc(V)	FK26 type	FK16 type
X7R	0.47μF	±10%	50	FK26X7R1H474K	FK16X7R1H474K
X7R	0.68µF	±10%	50	FK26X7R1H684K	FK16X7R1H684K
X7R	1µF	±10%	50	FK26X7R1H105K	FK16X7R1H105K
X7R	1.5µF	±10%	50	FK26X7R1H155K	FK16X7R1H155K
X7R	2.2µF	±10%	50	FK26X7R1H225K	FK16X7R1H225K
X7R	0.68μF	±10%	25	FK26X7R1E684K	FK16X7R1E684K
X7R	1μF	±10%	25	FK26X7R1E105K	FK16X7R1E105K
X7R	1.5µF	±10%	25	FK26X7R1E155K	FK16X7R1E155K
X7R	2.2µF	±10%	25	FK26X7R1E225K	FK16X7R1E225K
X7R	3.3µF	±10%	25	FK26X7R1E335K	FK16X7R1E335K
X7R	4.7μF	±10%	25	FK26X7R1E475K	FK16X7R1E475K
X7R	6.8µF	±10%	25	FK26X7R1E685K	FK16X7R1E685K
X7R	10μF	±10%	25	FK26X7R1E106K	FK16X7R1E106K
X7R	3.3µF	±10%	16	FK26X7R1C335K	FK16X7R1C335K
X7R	4.7μF	±10%	16	FK26X7R1C475K	FK16X7R1C475K
X7R	6.8µF	±10%	16	FK26X7R1C685K	FK16X7R1C685K
X7R	10μF	±10%	16	FK26X7R1C106K	FK16X7R1C106K
X5R	1μF	±10%	50	FK26X5R1H105K	FK16X5R1H105K
X5R	1.5μF	±10%	25	FK26X5R1E155K	FK16X5R1E155K
X5R	2.2µF	±10%	25	FK26X5R1E225K	FK16X5R1E225K
X5R	3.3µF	±10%	25	FK26X5R1E335K	FK16X5R1E335K
X5R	4.7μF	±10%	25	FK26X5R1E475K	FK16X5R1E475K
X5R	3.3µF	±10%	16	FK26X5R1C335K	FK16X5R1C335K
X5R	4.7μF	±10%	16	FK26X5R1C475K	FK16X5R1C475K
X5R	6.8µF	±10%	16	FK26X5R1C685K	FK16X5R1C685K
X5R	10μF	±10%	16	FK26X5R1C106K	FK16X5R1C106K
X5R	6.8µF	±10%	10	FK26X5R1A685K	FK16X5R1A685K
X5R	10μF	±10%	10	FK26X5R1A106K	FK16X5R1A106K
X5R	6.8µF	±10%	6.3	FK26X5R0J685K	FK16X5R0J685K
X5R	10μF	±10%	6.3	FK26X5R0J106K	FK16X5R0J106K
X5R	15µF	±20%	6.3	FK26X5R0J156M	FK16X5R0J156M
X5R	22µF	±20%	6.3	FK26X5R0J226M	FK16X5R0J226M
X5R	33µF	±20%	6.3	FK26X5R0J336M	FK16X5R0J336M
X5R	47µF	±20%	6.3	FK26X5R0J476M	FK16X5R0J476M

FK20 AND FK11 TYPES SHAPES AND DIMENSIONS

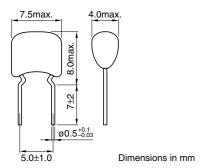


Temperature	Capacitance	Tolerance	Rated voltage	Part No.	
characteristics	Сараспансе	iolerance	Edc(V)	FK20 type	FK11 type
X7R	0.68μF	±10%	50	FK20X7R1H684K	FK11X7R1H684K
K7R	1μF	±10%	50	FK20X7R1H105K	FK11X7R1H105K
(7R	1.5µF	±10%	50	FK20X7R1H155K	FK11X7R1H155K
X7R	2.2µF	±10%	50	FK20X7R1H225K	FK11X7R1H225K
X7R	3.3µF	±10%	50	FK20X7R1H335K	FK11X7R1H335K
(7R	4.7μF	±10%	50	FK20X7R1H475K	FK11X7R1H475K
K7R	2.2µF	±10%	25	FK20X7R1E225K	FK11X7R1E225K
X7R	3.3µF	±10%	25	FK20X7R1E335K	FK11X7R1E335K
X7R	4.7µF	±10%	25	FK20X7R1E475K	FK11X7R1E475K
(7R	6.8µF	±10%	25	FK20X7R1E685K	FK11X7R1E685K
K7R	10μF	±10%	25	FK20X7R1E106K	FK11X7R1E106K
K7R	10μF	±10%	16	FK20X7R1C106K	FK11X7R1C106K
K7R	15µF	±20%	16	FK20X7R1C156M	FK11X7R1C156M
(7R	22µF	±20%	16	FK20X7R1C226M	FK11X7R1C226M
(7R	22µF	±20%	10	FK20X7R1A226M	FK11X7R1A226M
K5R	2.2µF	±10%	50	FK20X5R1H225K	FK11X5R1H225K
K5R	3.3µF	±10%	50	FK20X5R1H335K	FK11X5R1H335K
X5R	4.7µF	±10%	25	FK20X5R1E475K	FK11X5R1E475K
(5R	6.8µF	±10%	25	FK20X5R1E685K	FK11X5R1E685K
(5R	10μF	±10%	25	FK20X5R1E106K	FK11X5R1E106K
K5R	10μF	±10%	16	FK20X5R1C106K	FK11X5R1C106K
K5R	15µF	±20%	16	FK20X5R1C156M	FK11X5R1C156M
(5R	22µF	±20%	16	FK20X5R1C226M	FK11X5R1C226M
(5R	15µF	±20%	10	FK20X5R1A156M	FK11X5R1A156M
(5R	22µF	±20%	10	FK20X5R1A226M	FK11X5R1A226M
(5R	22µF	±20%	6.3	FK20X5R0J226M	FK11X5R0J226M
(5R	33µF	±20%	6.3	FK20X5R0J336M	FK11X5R0J336M
(5R	47µF	±20%	6.3	FK20X5R0J476M	FK11X5R0J476M
(5R	68µF	±20%	6.3	FK20X5R0J686M	FK11X5R0J686M
(5R	100µF	±20%	6.3	FK20X5R0J107M	FK11X5R0J107M
(7S	4.7µF	±10%	50	FK20X7S1H475K	FK11X7S1H475K
K7S	6.8µF	±10%	50	FK20X7S1H685K	FK11X7S1H685K
X7S	10μF	±10%	50	FK20X7S1H106K	FK11X7S1H106K

[•] All specifications are subject to change without notice.



FK22 TYPE SHAPES AND DIMENSIONS

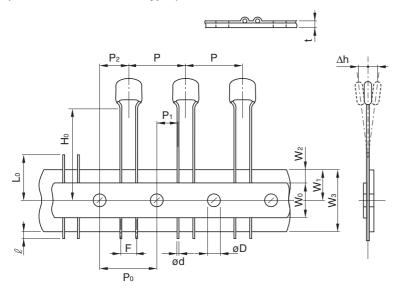


Temperature	Capacitance	Tolerance	Rated voltage	Part No.
characteristics	(pF)	iolerance	Edc(V)	FK22 type
X7R	1.5μF	±10%	50	FK22X7R1H155K
X7R	2.2µF	±10%	50	FK22X7R1H225K
X7R	3.3µF	±10%	50	FK22X7R1H335K
X7R	4.7μF	±10%	50	FK22X7R1H475K
X7R	6.8µF	±10%	50	FK22X7R1H685K
X7R	4.7μF	±10%	25	FK22X7R1E475K
X7R	6.8µF	±10%	25	FK22X7R1E685K
X7R	10μF	±10%	25	FK22X7R1E106K
X7R	15µF	±20%	25	FK22X7R1E156M
X7R	22µF	±20%	25	FK22X7R1E226M
X7R	15µF	±20%	16	FK22X7R1C156M
X7R	22μF	±20%	16	FK22X7R1C226M
X7R	33µF	±20%	16	FK22X7R1C336M
X5R	4.7μF	±10%	50	FK22X5R1H475K
X5R	6.8µF	±10%	50	FK22X5R1H685K
X5R	15µF	±20%	25	FK22X5R1E156M
X5R	22µF	±20%	25	FK22X5R1E226M
X5R	33µF	±20%	16	FK22X5R1C336M
X5R	33µF	±20%	10	FK22X5R1A336M
X5R	47µF	±20%	10	FK22X5R1A476M
X5R	68µF	±20%	6.3	FK22X5R0J686M
X5R	100μF	±20%	6.3	FK22X5R0J107M

[•] For more information about products with other capacitance or other data, please contact us.

[•] All specifications are subject to change without notice.

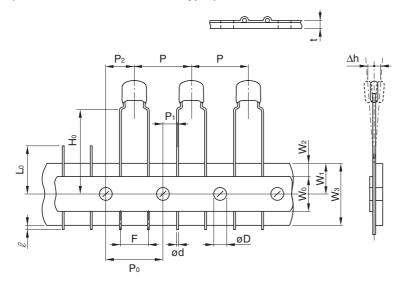
PACKAGING STYLES TAPING DIMENSIONS FK1 Series (FK18, FK14, FK16, FK11 Types)



Symbol	Dimensions (mm)
Р	12.7±1.0
Po*1	12.7±0.3
P ₁	5.1±0.7
P ₂	6.35±1.3
W ₀	12.0±1.0
W ₁	9.0±0.5
W2*2	3.0max.
Wз	18.0+1.0, -0.5
H ₀	16.0±0.5
<u>l</u>	1.0max.
t	0.6±0.2
Lo*3	11.0max.
F	2.5+0.5, -0.2
ød	ø0.5+0.1, −0.03
øD	ø4.0±0.2
Δh	0±2

- *1 Accumulated pitch tolerance shall be ±2mm for 20 pitches.
- *2 Adhesive tape shall not stick out from carrier tape.
- *3 The number of consecutive gaps in the product shall be three or less

FK2 Series (FK28, FK24, FK26, FK20, FK22 Types)



Symbol	Dimensions (mm)
P	12.7±1.0
Po*1	12.7±0.3
P ₁	3.85±0.7
P ₂	6.35±1.3
W ₀	12.0±1.0
W ₁	9.0±0.5
W ₂ *2	3.0max.
W 3	18.0+1.0, -0.5
H ₀	16.0±0.5
$\frac{\ell}{t}$	1.0max.
t	0.6±0.2
Lo*3	11.0max.
F	5.0+0.8, -0.2
ød	ø0.5+0.1, −0.03
øD	ø4.0±0.2
Δh	0±2

- $^{\ast 1}$ Accumulated pitch tolerance shall be $\pm 2\text{mm}$ for 20 pitches.
- *2 Adhesive tape shall not stick out from carrier tape.
- *3 The number of consecutive gaps in the product shall be three or less.

PACKAGING QUANTITIES

Туре	Quantity
FK28, FK18	
FK24, FK14	2000 pieces/1box
FK26, FK16	
FK20, FK11	1500 piagga/1bay
FK22	1500 pieces/1box

Mouser Electronics

Authorized Distributor

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TDK:

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FK26Y5V0J476Z FK26Y5V1E475Z FK22Y5V1C476Z FK26Y5V1A226Z FK24Y5V1H105Z FK20Y5V1A476Z
FK20Y5V1C226Z FK24Y5V1E225Z FK24Y5V1A106Z FK28Y5V1C105Z FK11Y5V0J107Z FK11Y5V1A476Z
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