

Radial Lead Type

Series: **FK** Type: **A**

■ Features

- Low impedance (10 % to 30 % less than FC Series)
Miniaturization (30 % to 40 % less than FC Series)
- Endurance : 3000 h to 5000 h at +105 °C
- AEC-Q200 qualified*
- RoHS directive compliant



■ Specifications

Category Temp. Range	-55 °C to +105 °C						
Rated W.V. Range	6.3 V.DC to 35 V.DC						
Nominal Cap. Range	180 μF to 12000 μF						
Capacitance Tolerance	±20 % (120 Hz/+20 °C)						
DC Leakage Current	$I \leq 0.01 CV$ (μA) After 2 minutes						
tan δ	W.V.	6.3	10	16	25	35	(120 Hz/+20 °C)
	tan δ	0.22	0.19	0.16	0.14	0.12	
Add 0.02 per 1000 μF for products of 1000 μF or more.							
Endurance	After following life test with DC voltage and +105 °C±2 °C ripple current value applied (The sum of DC and ripple peak voltage shall not exceed the rated working voltage), when the capacitors are restored to 20 °C, the capacitors shall meet the limits specified bellow. Duration : φ8: 3000 hours , φ10: 4000 hours , φ12.5 to φ18: 5000 hours						
	Capacitance change	±20 % of initial measured value					
	tan δ	≤ 200 % of initial specified value					
	DC leakage current	≤ initial specified value					
Shelf Life	After storage for 1000 hours at +105 °C±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)						

■ Frequency correction factor for ripple current

W.V.(V.DC)	Cap (μF)	Frequency (Hz)				
		60	120	1 k	10 k	100 k
6.3 to 35	180 to 330	0.60	0.70	0.85	0.95	1.00
	390 to 1000	0.65	0.75	0.90	0.98	1.00
	1200 to 12000	0.75	0.80	0.95	1.00	1.00

■ Dimensions in mm (not to scale)

(Unit : mm)

Body Dia. φD	8	10	12.5	16	18
Body Length L	—	—	12.5 to 25	30 to 40	—
Lead Dia. φd	0.6	0.6	0.6	0.8	0.8
Lead space F	3.5	5.0	5.0	5.0	7.5

* This product qualify for AEC-Q200, but it has some deviations.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

01 May. 2014

■ Case size/Impedance/Ripple current

Case size (ϕ D×L)	Impedance (Ω)/(100 kHz)		Ripple Current (mA r.m.s.)/(100 kHz)
	+20 °C	-10 °C	+105 °C
8 × 11.5	0.090	0.180	630
8 × 15	0.062	0.124	860
8 × 20	0.044	0.088	1220
10 × 12.5	0.063	0.126	900
10 × 16	0.049	0.098	1240
10 × 20	0.035	0.070	1490
10 × 25	0.033	0.066	1680
10 × 30	0.025	0.050	2140
12.5 × 15	0.048	0.096	1400
12.5 × 20	0.029	0.058	1890
12.5 × 25	0.022	0.044	2280
12.5 × 30	0.018	0.036	2720
12.5 × 35	0.016	0.032	2940
12.5 × 40	0.014	0.028	3010
16 × 15	0.038	0.076	1800
16 × 20	0.026	0.052	2330
16 × 25	0.019	0.038	2760
18 × 15	0.036	0.072	2060
18 × 20	0.025	0.050	2640
18 × 25	0.018	0.036	2850

■ Standard Products

Endurance : 105 °C ϕ 8=3000 h, ϕ 10=4000 h, ϕ 12.5 to ϕ 18=5000 h

W.V.	Cap. (±20 %)	Case size		Specification			Lead Length			Part No.	Min. Packaging Q'ty	
		Dia.	Length	Ripple Current (100 kHz) (+105 °C) (mA r.m.s.)	Impedance (100 kHz) (+20 °C) (Ω)	Endurance (hours)	Lead Dia.	Lead Space			Straight Leads (pcs)	Taping (pcs)
								Straight	Taping *B			
(V)	(μ F)	(mm)	(mm)	(mA r.m.s.)	(Ω)	(hours)	(mm)	(mm)	(mm)		(pcs)	(pcs)
6.3	680	8	11.5	630	0.090	3000	0.6	3.5	5.0	EEUFK0J681()	200	1000
	1000	8	15	860	0.062	3000	0.6	3.5	5.0	EEUFK0J102L()	200	1000
		10	12.5	900	0.063	4000	0.6	5.0	5.0	EEUFK0J102()	200	500
	1500	8	20	1220	0.044	3000	0.6	3.5	5.0	EEUFK0J152L()	200	1000
		10	16	1240	0.049	4000	0.6	5.0	5.0	EEUFK0J152()	200	500
	1800	12.5	15	1400	0.048	5000	0.6	5.0	5.0	EEUFK0J182S()	200	500
	2200	10	20	1490	0.035	4000	0.6	5.0	5.0	EEUFK0J222()	200	500
		10	25	1680	0.033	4000	0.6	5.0	5.0	EEUFK0J222L()	200	500
	3300	10	30	2140	0.025	4000	0.6	5.0		EEUFK0J332L	100	
		12.5	20	1890	0.029	5000	0.6	5.0	5.0	EEUFK0J332()	200	500
		16	15	1800	0.038	5000	0.8	7.5	7.5	EEUFK0J332S()	100	250
	4700	12.5	25	2280	0.022	5000	0.6	5.0	5.0	EEUFK0J472()	200	500
		18	15	2060	0.036	5000	0.8	7.5	7.5	EEUFK0J472S()	100	250
	5600	12.5	30	2720	0.018	5000	0.8	5.0		EEUFK0J562L	100	
		16	20	2330	0.026	5000	0.8	7.5	7.5	EEUFK0J562S()	100	250
	6800	12.5	35	2940	0.016	5000	0.8	5.0		EEUFK0J682L	100	
	8200	12.5	40	3010	0.014	5000	0.8	5.0		EEUFK0J822L	100	
		16	25	2760	0.019	5000	0.8	7.5	7.5	EEUFK0J822()	100	250
18		20	2640	0.025	5000	0.8	7.5	7.5	EEUFK0J822S()	100	250	
12000	18	25	2850	0.018	5000	0.8	7.5	7.5	EEUFK0J123S()	100	250	
10	560	8	11.5	630	0.090	3000	0.6	3.5	5.0	EEUFK1A561()	200	1000
	820	8	15	860	0.062	3000	0.6	3.5	5.0	EEUFK1A821L()	200	1000
		10	12.5	900	0.063	4000	0.6	5.0	5.0	EEUFK1A821()	200	500
	1200	8	20	1220	0.044	3000	0.6	3.5	5.0	EEUFK1A122L()	200	1000
		10	16	1240	0.049	4000	0.6	5.0	5.0	EEUFK1A122()	200	500
	1500	12.5	15	1400	0.048	5000	0.6	5.0	5.0	EEUFK1A152S()	200	500
	1800	10	20	1490	0.035	4000	0.6	5.0	5.0	EEUFK1A182()	200	500
		10	25	1680	0.033	4000	0.6	5.0	5.0	EEUFK1A182L()	200	500
	2700	10	30	2140	0.025	4000	0.6	5.0		EEUFK1A272L	100	
		12.5	20	1890	0.029	5000	0.6	5.0	5.0	EEUFK1A272()	200	500
		16	15	1800	0.038	5000	0.8	7.5	7.5	EEUFK1A272S()	100	250
	3900	12.5	25	2280	0.022	5000	0.6	5.0	5.0	EEUFK1A392()	200	500
		18	15	2060	0.036	5000	0.8	7.5	7.5	EEUFK1A392S()	100	250
	4700	12.5	30	2720	0.018	5000	0.8	5.0		EEUFK1A472L	100	
		16	20	2330	0.026	5000	0.8	7.5	7.5	EEUFK1A472S()	100	250
	5600	12.5	35	2940	0.016	5000	0.8	5.0		EEUFK1A562L	100	
	6800	12.5	40	3010	0.014	5000	0.8	5.0		EEUFK1A682L	100	
		16	25	2760	0.019	5000	0.8	7.5	7.5	EEUFK1A682()	100	250
18		20	2640	0.025	5000	0.8	7.5	7.5	EEUFK1A682S()	100	250	
8200	18	25	2850	0.018	5000	0.8	7.5	7.5	EEUFK1A822S()	100	250	

- When requesting taped product, please put the letter "B" between the "()". Lead wire pitch *B=5 mm, 7.5 mm.
- Please refer to the page of "Taping Dimensions".

Standard Products

Endurance : 105 °C ϕ 8=3000 h, ϕ 10=4000 h, ϕ 12.5 to ϕ 18=5000 h

W.V. (V)	Cap. (\pm 20 %) (μ F)	Case size		Specification			Lead Length			Part No.	Min. Packaging Q'ty	
		Dia. (mm)	Length (mm)	Ripple Current (100 kHz) (+105 °C) (mA r.m.s.)	Impedance (100 kHz) (+20 °C) (Ω)	Endurance (hours)	Lead Dia. (mm)	Lead Space			Straight Leads (pcs)	Taping (pcs)
								Straight (mm)	Taping *B (mm)			
16	390	8	11.5	630	0.090	3000	0.6	3.5	5.0	EEUFK1C391()	200	1000
	680	8	15	860	0.062	3000	0.6	3.5	5.0	EEUFK1C681L()	200	1000
		10	12.5	900	0.063	4000	0.6	5.0	5.0	EEUFK1C681()	200	500
	820	8	20	1220	0.044	3000	0.6	3.5	5.0	EEUFK1C821L()	200	1000
	1000	10	16	1240	0.049	4000	0.6	5.0	5.0	EEUFK1C102()	200	500
	1200	10	20	1490	0.035	4000	0.6	5.0	5.0	EEUFK1C122()	200	500
		12.5	15	1400	0.048	5000	0.6	5.0	5.0	EEUFK1C122S()	200	500
	1500	10	25	1680	0.033	4000	0.6	5.0	5.0	EEUFK1C152L()	200	500
	2200	10	30	2140	0.025	4000	0.6	5.0		EEUFK1C222L	100	
		12.5	20	1890	0.029	5000	0.6	5.0	5.0	EEUFK1C222()	200	500
		16	15	1800	0.038	5000	0.8	7.5	7.5	EEUFK1C222S()	100	250
	2700	12.5	25	2280	0.022	5000	0.6	5.0	5.0	EEUFK1C272()	200	500
		18	15	2060	0.036	5000	0.8	7.5	7.5	EEUFK1C272S()	100	250
	3300	12.5	30	2720	0.018	5000	0.8	5.0		EEUFK1C332L	100	
	3900	12.5	35	2940	0.016	5000	0.8	5.0		EEUFK1C392L	100	
		16	20	2330	0.026	5000	0.8	7.5	7.5	EEUFK1C392S()	100	250
4700	12.5	40	3010	0.014	5000	0.8	5.0		EEUFK1C472L	100		
	18	20	2640	0.025	5000	0.8	7.5	7.5	EEUFK1C472S()	100	250	
5600	16	25	2760	0.019	5000	0.8	7.5	7.5	EEUFK1C562()	100	250	
6800	18	25	2850	0.018	5000	0.8	7.5	7.5	EEUFK1C682S()	100	250	
25	270	8	11.5	630	0.090	3000	0.6	3.5	5.0	EEUFK1E271()	200	1000
	390	8	15	860	0.062	3000	0.6	3.5	5.0	EEUFK1E391L()	200	1000
	470	10	12.5	900	0.063	4000	0.6	5.0	5.0	EEUFK1E471()	200	500
	560	8	20	1220	0.044	3000	0.6	3.5	5.0	EEUFK1E561L()	200	1000
		10	16	1240	0.049	4000	0.6	5.0	5.0	EEUFK1E561()	200	500
	820	10	20	1490	0.035	4000	0.6	5.0	5.0	EEUFK1E821()	200	500
		12.5	15	1400	0.048	5000	0.6	5.0	5.0	EEUFK1E821S()	200	500
	1000	10	25	1680	0.033	4000	0.6	5.0	5.0	EEUFK1E102L()	200	500
	1200	12.5	20	1890	0.029	5000	0.6	5.0	5.0	EEUFK1E122()	200	500
	1500	10	30	2140	0.025	4000	0.6	5.0		EEUFK1E152L	100	
		16	15	1800	0.038	5000	0.8	7.5	7.5	EEUFK1E152S()	100	250
	1800	12.5	25	2280	0.022	5000	0.6	5.0	5.0	EEUFK1E182()	200	500
		18	15	2060	0.036	5000	0.8	7.5	7.5	EEUFK1E182S()	100	250
	2200	12.5	30	2720	0.018	5000	0.8	5.0		EEUFK1E222L	100	
		16	20	2330	0.026	5000	0.8	7.5	7.5	EEUFK1E222S()	100	250
	2700	12.5	35	2940	0.016	5000	0.8	5.0		EEUFK1E272L	100	
3300	12.5	40	3010	0.014	5000	0.8	5.0		EEUFK1E332L	100		
	16	25	2760	0.019	5000	0.8	7.5	7.5	EEUFK1E332()	100	250	
	18	20	2640	0.025	5000	0.8	7.5	7.5	EEUFK1E332S()	100	250	
4700	18	25	2850	0.018	5000	0.8	7.5	7.5	EEUFK1E472S()	100	250	

- When requesting taped product, please put the letter "B" between the "()". Lead wire pitch *B=5 mm, 7.5 mm.
- Please refer to the page of "Taping Dimensions".

■ Standard Products

Endurance : 105 °C ϕ 8=3000 h, ϕ 10=4000 h, ϕ 12.5 to ϕ 18=5000 h

W.V.	Cap. (±20 %)	Case size		Specification			Lead Length			Part No.	Min. Packaging Q'ty	
		Dia.	Length	Ripple Current (100 kHz) (+105 °C) (mA r.m.s.)	Impedance (100 kHz) (+20 °C) (Ω)	Endurance (hours)	Lead Dia. (mm)	Lead Space			Straight Leads (pcs)	Taping (pcs)
								Straight (mm)	Taping *B (mm)			
(V)	(μ F)	(mm)	(mm)	(mA r.m.s.)	(Ω)	(hours)	(mm)	(mm)	(mm)		(pcs)	(pcs)
35	180	8	11.5	630	0.090	3000	0.6	3.5	5.0	EEUFK1V181()	200	1000
	270	8	15	860	0.062	3000	0.6	3.5	5.0	EEUFK1V271L()	200	1000
		10	12.5	900	0.063	4000	0.6	5.0	5.0	EEUFK1V271()	200	500
	390	8	20	1220	0.044	3000	0.6	3.5	5.0	EEUFK1V391L()	200	1000
		10	16	1240	0.049	4000	0.6	5.0	5.0	EEUFK1V391()	200	500
	560	10	20	1490	0.035	4000	0.6	5.0	5.0	EEUFK1V561()	200	500
		12.5	15	1400	0.048	5000	0.6	5.0	5.0	EEUFK1V561S()	200	500
	680	10	25	1680	0.033	4000	0.6	5.0	5.0	EEUFK1V681L()	200	500
	820	12.5	20	1890	0.029	5000	0.6	5.0	5.0	EEUFK1V821()	200	500
	1000	10	30	2140	0.025	4000	0.6	5.0		EEUFK1V102L	100	
		16	15	1800	0.038	5000	0.8	7.5	7.5	EEUFK1V102S()	100	250
	1200	12.5	25	2280	0.022	5000	0.6	5.0	5.0	EEUFK1V122()	200	500
		18	15	2060	0.036	5000	0.8	7.5	7.5	EEUFK1V122S()	100	250
	1500	12.5	30	2720	0.018	5000	0.8	5.0		EEUFK1V152L	100	
	1800	12.5	35	2940	0.016	5000	0.8	5.0		EEUFK1V182L	100	
		16	20	2330	0.026	5000	0.8	7.5	7.5	EEUFK1V182S()	100	250
	2200	12.5	40	3010	0.014	5000	0.8	5.0		EEUFK1V222L	100	
		16	25	2760	0.019	5000	0.8	7.5	7.5	EEUFK1V222()	100	250
		18	20	2640	0.025	5000	0.8	7.5	7.5	EEUFK1V222S()	100	250
	3300	18	25	2850	0.018	5000	0.8	7.5	7.5	EEUFK1V332S()	100	250

- When requesting taped product, please put the letter "B" between the "()". Lead wire pitch *B=5 mm, 7.5 mm.
- Please refer to the page of "Taping Dimensions".

Mouser Electronics

Authorized Distributor

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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