Panasonic

Radial Lead Type

Series: FR Type: A

■ Features

Low ESR (Same as FM Series)

• Endurance : 5000 h to 10000 h at +105 °C

RoHS directive compliant

■ Attention

Not applicable for automotive

■ Country of origin Malaysia



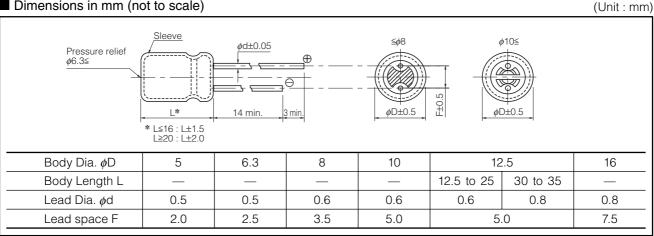
■ Specifications

•											
Category Temp. Range	−40 °C to +105 °C										
Rated W.V. Range				6.3 V.E	OC to 63	3 V.DC					
Nominal Cap. Range	6.3 V.DC to 63 V.DC 4.7 μF to 8200 μF ±20 % (120 Hz/+20 °C) Solution 16 25 35 50 63 (120 Hz/+20 °C) Add 0.02 per 1000 μF for products of 1000 μF or more. After following life test with DC voltage and +105 °C±2 °C ripple current value applied. (The solution of DC and ripple peak voltage shall not exceed the rated working voltage) when the capacitare restored to 20 °C, the capacitors shall meet the limits specified below. Duration φ5×11/ φ6.3×11.2 : 5000 hours φ8×11.5/ φ10×12.5 : 6000 hours φ8×20 : 9000 hours φ8×15/ φ10×16 : 8000 hours, φ8×20 : 9000 hours φ10×20 to φ10×25/ φ12.5×20 to φ12.5×35/ φ16×20 to φ16×25 : 10000 hours capacitance change ±25 % of initial measured value (6.3 V to 10 V : ±30 %)										
Capacitance Tolerance			±	-20 % (120 Hz,	/+20 °C	;)				
DC Leakage Current			I ≤ 0.	01 CV (μA) Aft	er 2 mi	nutes				
	W.V.	6.3	10	16	25	35	50	63	(120 H=/, 20 °C)		
tan δ	tan δ	tan δ 0.22 0.19 0.16 0.14 0.12 0.10 0.09 (120 H2/+20 C)									
	Add 0.02 per 1000 µF for products of 1000 µF or more.										
Endurance	of DC and ripple peak are restored to 20 °C, 1 Duration \$\phi 5 \times 11.5 / \phi 10 \times 12.5 \$\phi 8 \times 15 / \phi 10 \times 16 : 80	the cap 5000 h 6000 000 hou	e shall i acitors ours hours (: rs, <i>ø</i> 8×	not excoshall moses * Only 20:90	eed the eet the EEUFR 00 hou	rated v limits sp 1V331U rs	working becified J (ø10×1	voltage below. 12.5) 50	e) when the capacitors		
	Capacitance change	±25 %	of initia	al meas	ured va	alue (6.	3 V to 1	0 V : ±	30 %)		
	tan δ	≤ 200	% of ini	tial spe	cified v	alue					
	DC leakage current	≤ initia	l speci	fied va	ue						
Shelf Life	After storage for 1000 at +20 °C, capacitors	hours a shall m	at +105 eet the	°C±2° limits s	C with pecified	no volta d in End	age app durance	olied ar e. (With	nd then being stabilized voltage treatment)		

Frequency correction factor for ripple current

WW (VDC)	Cap (µF)			Frequency (Hz)							
W.V.(V.DC)		ιρ (μι	_)	60	120	1 k	10 k	100 k			
	4.7	to	33	0.45	0.55	0.75	0.90	1.00			
6.3 to 63	47	to	330	0.60	0.70	0.85	0.95	1.00			
0.3 10 03	390	to	1000	0.65	0.75	0.90	0.98	1.00			
	1200	to	8200	0.75	0.80	0.95	1.00	1.00			

■ Dimensions in mm (not to scale)



Aluminum Electrolytic Capacitors/ FR

Panasonic

■ Case size/Impedance/Ripple current

W.V.(V.DC)		6.3 V to 35	V		50 V	
Case size (ϕ D×L)		dance) kHz)	Ripple Current (mA r.m.s./100 kHz)		dance) kHz)	Ripple Current (mA r.m.s./100 kHz)
(9 = 1 :=)	+20 °C	−10 °C	+105 °C	+20 °C	−10 °C	+105 °C
5 × 11	0.300	1.000	280	0.340	1.130	250
6.3 × 11.2	0.130	0.430	455	0.140	0.460	405
8 × 11.5	0.056	0.168	950	0.061	0.183	870
8 × 15	0.041	0.123	1240	0.045	0.135	1140
8 × 20	0.030	0.090	1560	0.033	0.099	1430
10 × 12.5	0.043	0.114	1290	0.042	0.126	1170
10 × 16	0.028	0.078	1790	0.030	0.090	1650
10 × 20	0.020	0.057	2180	0.023	0.069	1890
10 × 25	0.018	0.054	2470	0.022	0.066	2150
12.5 × 20	0.018	0.045	2600	0.022	0.055	2260
12.5 × 25	0.015	0.038	3190	0.018	0.045	2660
12.5 × 30	0.013	0.033	3630	0.016	0.040	3160
12.5 × 35	0.012	0.030	3750	0.014	0.035	3270
16 × 20	0.017	0.043	3300	0.019	0.048	2870
16 × 25	0.014	0.035	3820	0.016	0.040	3320

			63 V		
W.V.	(V.DC)				
	se size \	Imped $(\Omega/100$	Ripple Current (mA r.m.s./100 kHz)		
	,	+20 °C	−10 °C	+105 °C	
5	× 11	0.510	2.040	175	
6.3	× 11.2	0.210	0.840	284	
8	× 11.5	0.092	0.368	566	
8	× 15	0.068	0.272	741	
8	× 20	0.050	0.200	930	
10	× 12.5	0.063	0.252	761	
10	× 16	0.045	0.180	1073	
10	× 20	0.035	0.140	1229	
10	× 25	0.033	0.132	1500	
12.5	× 20	0.033	0.125	1582	
12.5	× 25	0.027	0.092	1995	
12.5	× 30	0.024	0.082	2528	
12.5	× 35	0.021	0.071	2780	
16	× 20	0.029	0.093	2153	
16	× 25	0.024	0.074	2988	



■ Standard Products

		Case	size	Specification				Lead L	_ength			Min. Packaging Q'ty	
	Cap.			Ripple Imped-		Endur-	Lead	Le	ad Spa	се			
W.V.	(±20 %)	Dia.	Length	Current (100 kHz) (+105 °C)	ance (100 kHz) (+20 °C)	ance	Dia.	Straight	Taping *B	Taping *H	Part No.	Straight Leads	Taping
(V)	(µF)	(mm)	(mm)	(mA r.m.s.)	(Ω)	(hours)	(mm)	(mm)	(mm)	(mm)		(pcs)	(pcs)
	150	5	11	280	0.300	5000	0.5	2.0	5.0	2.5	EEUFR0J151()	200	2000
	220	6.3	11.2	455	0.130	5000	0.5	2.5	5.0	2.5	EEUFR0J221()	200	2000
	330	6.3	11.2	455	0.130	5000	0.5	2.5	5.0	2.5	EEUFR0J331()	200	2000
	470	6.3	11.2	455	0.130	5000	0.5	2.5	5.0	2.5	EEUFR0J471()	200	2000
	820	8	11.5	950	0.056	6000	0.6	3.5	5.0		EEUFR0J821()	200	1000
	1000	8	11.5	950	0.056	6000	0.6	3.5	5.0		EEUFR0J102()	200	1000
	1200	8	15	1240	0.041	8000	0.6	3.5	5.0		EEUFR0J122L()	200	1000
	1200	10	12.5	1290	0.043	6000	0.6	5.0	5.0		EEUFR0J122()	200	500
	1500	8	20	1560	0.030	9000	0.6	3.5	5.0		EEUFR0J152L()	200	1000
6.3	1800	10	16	1790	0.028	8000	0.6	5.0	5.0		EEUFR0J182()	200	500
	2200	10	20	2180	0.020	10000	0.6	5.0	5.0		EEUFR0J222()	200	500
	2700	10	25	2470	0.018	10000	0.6	5.0	5.0		EEUFR0J272L()	200	500
	3300	10	25	2470	0.018	10000	0.6	5.0	5.0		EEUFR0J332L()	200	500
	3900	12.5	20	2600	0.018	10000	0.6	5.0	5.0		EEUFR0J392()	200	500
	4700	12.5	25	3190	0.015	10000	0.6	5.0	5.0		EEUFR0J472()	200	500
	5600	12.5	30	3630	0.013	10000	0.8	5.0			EEUFR0J562L	100	
	6800	12.5	35	3750	0.012	10000	0.8	5.0			EEUFR0J682L	100	
	0000	16	20	3300	0.017	10000	0.8	7.5	7.5		EEUFR0J682S()	100	250
	8200	16	25	3820	0.014	10000	0.8	7.5	7.5		EEUFR0J822()	100	250
	100	5	11	280	0.300	5000	0.5	2.0	5.0	2.5	EEUFR1A101()	200	2000
	150	5	11	280	0.300	5000	0.5	2.0	5.0	2.5	EEUFR1A151()	200	2000
	220	6.3	11.2	455	0.130	5000	0.5	2.5	5.0	2.5	EEUFR1A221()	200	2000
	270	6.3	11.2	455	0.130	5000	0.5	2.5	5.0	2.5	EEUFR1A271()	200	2000
	470	8	11.5	950	0.056	6000	0.6	3.5	5.0		EEUFR1A471()	200	1000
	680	8	11.5	950	0.056	6000	0.6	3.5	5.0		EEUFR1A681()	200	1000
	820	10	12.5	1290	0.043	6000	0.6	5.0	5.0		EEUFR1A821()	200	500
	1000	10	16	1790	0.028	8000	0.6	5.0	5.0		EEUFR1A102()	200	500
	1000	8	15	1240	0.041	8000	0.6	3.5	5.0		EEUFR1A102L()	200	1000
10	1500	8	20	1560	0.030	9000	0.6	3.5	5.0		EEUFR1A152L()	200	1000
10	1300	10	16	1790	0.028	8000	0.6	5.0	5.0		EEUFR1A152()	200	500
	1800	10	20	2180	0.020	10000	0.6	5.0	5.0		EEUFR1A182()	200	500
	2200	10	25	2470	0.018	10000	0.6	5.0	5.0		EEUFR1A222L()	200	500
	3300	12.5	20	2600	0.018	10000	0.6	5.0	5.0		EEUFR1A332()	200	500
	3900	12.5	25	3190	0.015	10000	0.6	5.0	5.0		EEUFR1A392()	200	500
	4700	12.5	30	3630	0.013	10000	8.0	5.0			EEUFR1A472L	100	
	7700	16	20	3300	0.017	10000	0.8	7.5	7.5		EEUFR1A472S()	100	250
	5600	12.5	35	3750	0.012	10000	0.8	5.0			EEUFR1A562L	100	
	6800	12.5	35	3750	0.012	10000	0.8	5.0			EEUFR1A682L	100	
	0000	16	25	3820	0.014	10000	8.0	7.5	7.5		EEUFR1A682()	100	250

[·] When requesting taped product, please put the letter "B" or "H" between the "()". Lead wire pitch B=5 mm, 7.5 mm, H=2.5 mm. · Please refer to the page of "Taping Dimensions".

Panasonic

■ Standard Products

-		Case	size	Sn	ecificati	on		Lead I	_enath			Min. Packaging Q'ty	
	Can			Ripple Imped- Endur-			Lead		ad Spa	ce			
W.V.	Cap. (±20 %)	Dia.	Length	Current	ance (100 kHz)	ance	Dia.	Straight	Taping *B	Taping *H	Part No.	Straight Leads	Taping
(V)	(µF)	(mm)	(mm)	(mA r.m.s.)	(Ω)	(hours)	(mm)	(mm)	(mm)	(mm)		(pcs)	(pcs)
	68	5	11	280	0.300	5000	0.5	2.0	5.0	2.5	EEUFR1C680()	200	2000
	100	5	11	280	0.300	5000	0.5	2.0	5.0	2.5	EEUFR1C101()	200	2000
	120	6.3	11.2	455	0.130	5000	0.5	2.5	5.0	2.5	EEUFR1C121()	200	2000
	220	6.3	11.2	455	0.130	5000	0.5	2.5	5.0	2.5	EEUFR1C221()	200	2000
	470	8	11.5	950	0.056	6000	0.6	3.5	5.0		EEUFR1C471()	200	1000
	680	8	15	1240	0.041	8000	0.6	3.5	5.0		EEUFR1C681L()	200	1000
	000	10	12.5	1290	0.043	6000	0.6	5.0	5.0		EEUFR1C681()	200	500
	1000	8	20	1560	0.030	9000	0.6	3.5	5.0		EEUFR1C102L()	200	1000
	1000	10	16	1790	0.028	8000	0.6	5.0	5.0		EEUFR1C102()	200	500
	1500	10	20	2180	0.020	10000	0.6	5.0	5.0		EEUFR1C152()	200	500
16		10	25	2470	0.018	10000	0.6	5.0	5.0		EEUFR1C152L()	200	500
	1800	10	25	2470	0.018	10000	0.6	5.0	5.0		EEUFR1C182L()	200	500
	2200	12.5	20	2600	0.018	10000	0.6	5.0	5.0		EEUFR1C222()	200	500
	2700	12.5	25	3190	0.015	10000	0.6	5.0	5.0		EEUFR1C272()	200	500
	3300	12.5	30	3630	0.013	10000	0.8	5.0			EEUFR1C332L	100	
	0000	16	20	3300	0.017	10000	0.8	7.5	7.5		EEUFR1C332S()	100	250
	3900	12.5	35	3750	0.012	10000	0.8	5.0			EEUFR1C392L	100	
	3900	16	20	3300	0.017	10000	0.8	7.5	7.5		EEUFR1C392S()	100	250
	4700	12.5	35	3750	0.012	10000	0.8	5.0			EEUFR1C472L	100	
		16	25	3820	0.014	10000	0.8	7.5	7.5		EEUFR1C472()	100	250
	5600	16	25	3820	0.014	10000	0.8	7.5	7.5		EEUFR1C562()	100	250
	47	5	11	280	0.300	5000	0.5	2.0	5.0	2.5	EEUFR1E470()	200	2000
	68	5	11	280	0.300	5000	0.5	2.0	5.0	2.5	EEUFR1E680()	200	2000
	100	6.3	11.2	455	0.130	5000	0.5	2.5	5.0	2.5	EEUFR1E101()	200	2000
	150	6.3	11.2	455	0.130	5000	0.5	2.5	5.0	2.5	EEUFR1E151()	200	2000
	220	8	11.5	950	0.056	6000	0.6	3.5	5.0		EEUFR1E221()	200	1000
	330	8	11.5	950	0.056	6000	0.6	3.5	5.0		EEUFR1E331()	200	1000
	390	8	15	1240	0.041	8000	0.6	3.5	5.0		EEUFR1E391L()	200	1000
		8	15	1240	0.041	8000	0.6	3.5	5.0		EEUFR1E471Y()	200	1000
	470	8	20	1560	0.030	9000	0.6	3.5	5.0		EEUFR1E471L()	200	1000
		10	12.5	1290	0.043	6000	0.6	5.0	5.0		EEUFR1E471()	200	500
	560	8	20	1560	0.030	9000	0.6	3.5	5.0		EEUFR1E561L()	200	1000
	680	8	20	1560	0.030	9000	0.6	3.5	5.0		EEUFR1E681L()	200	1000
25	000	10	16	1790	0.028	8000	0.6	5.0	5.0		EEUFR1E681()	200	500
	820	10	20	2180	0.020	10000	0.6	5.0	5.0		EEUFR1E821()	200	500
	1000	10	20	2180	0.020	10000	0.6	5.0	5.0		EEUFR1E102()	200	500
		10	25	2470	0.018	10000	0.6	5.0	5.0		EEUFR1E102L()	200	500
	1200	10	25	2470	0.018	10000	0.6	5.0	5.0		EEUFR1E122L()	200	500
	1500	12.5	20	2600	0.018	10000	0.6	5.0	5.0		EEUFR1E152()	200	500
	1800	12.5	25	3190	0.015	10000	0.6	5.0	5.0		EEUFR1E182()	200	500
	1000	16	20	3300	0.017	10000	0.8	7.5	7.5		EEUFR1E182S()	100	250
	2200	12.5	30	3630	0.013	10000	0.8	5.0			EEUFR1E222L	100	
	2200	16	20	3300	0.017	10000	0.8	7.5	7.5		EEUFR1E222S()	100	250
	2700	12.5	35	3750	0.012	10000	0.8	5.0			EEUFR1E272L	100	
	2/00	16	20	3300	0.017	10000	8.0	7.5	7.5		EEUFR1E272S()	100	250
	3300	16	25	3820	0.014	10000	0.8	7.5	7.5		EEUFR1E332()	100	250

[·] When requesting taped product, please put the letter "B" or "H" between the "()". Lead wire pitch B=5 mm, 7.5 mm, H=2.5 mm. · Please refer to the page of "Taping Dimensions".

Panasonic

■ Standard Products

W.V. Cap Dia Length Ripple Imper Endur Lend Lend Space Part No. Straight Taping His Passage (D) (100 sHz) (1		10.01.0			1			1				T		
W. (200 S) Dia Length Current ance ance bia Current Cu			Case size		Sp	ecificati	on		Lead L	_ength			Min. Packaging Q'ty	
W. (200 S) Dia Length Current ance ance bia Current Cu		000			Ripple	Imped-	Fndur-	Lead	۵ ا	ad Sna	CP			
(V) (J. L.	W.V.			l						Таа ора			Straight	L .
(V) (VF) (mm) (mm) (mk ms (ms) (v) (ms) (mm) (mm) (mm) (mm) (ms) (ms) (ms		(±20 %)	Dıa.	Length			a	2.4.	Straight			Part No.		Taping
(V) (JF) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (m					(+105 °C)	(+20 °C)			Straight	* B	* H			
33 5	(\/\	(UE)	(mm)	(mm)			(houro)	(mm)	(mm)	(mm)	(mm)		(200)	(200)
68	(v)		` ′	` ′	. ,			, ,	` ′	` ′	·	EELIED () (200 ()		
100														
180					455						2.5			
220			0	11.5	950				3.5			EEUFRIVIUI()		
270			Ω											
330 10 12.5 1390 0.043 5000 0.6 5.0 5.0 EEUFRIV3T() 200 500												EEUFR1V2Z1()		
330 10 12.5 1330 0.043 5000 0.6 5.0 5.0		270												
390 8 20 1560 0.030 9000 0.6 3.5 5.0 EEUFRIV391L() 200 1000 470 8 20 1560 0.030 9000 0.6 3.5 5.0 EEUFRIV391L() 200 1000 305 560 10 20 2180 0.020 10000 0.6 5.0 5.0 EEUFRIV361() 200 500 680 10 20 2180 0.020 10000 0.6 5.0 5.0 EEUFRIV361() 200 500 680 10 25 2470 0.018 10000 0.6 5.0 5.0 EEUFRIV881L() 200 5		330		12.5										
470 8 20 1560 0.030 0.000 0.6 3.5 5.0 EEUFRIN471L() 200 500 500 500 EEUFRIN681() 200 500 680 10 20 2180 0.020 10000 0.6 5.0 5.0 EEUFRIN681() 200 500 800 10 25 2470 0.018 10000 0.6 5.0 5.0 EEUFRIN681() 200 500 820 10 25 2470 0.018 10000 0.6 5.0 5.0 EEUFRIN681L() 200 500 1000 12.5 2470 0.018 10000 0.6 5.0 5.0 EEUFRIN681L() 200 500 1000 12.5 25 2470 0.018 10000 0.6 5.0 5.0 EEUFRIN681L() 200 500 1200 12.5 25 3190 0.015 10000 0.6 5.0 5.0 EEUFRIN82L() 200 500 1200 12.5 25 3190 0.015 10000 0.6 5.0 5.0 EEUFRIN122() 200 500 1200 12.5 25 330 3630 0.013 10000 0.8 5.0 EEUFRIN122() 200 500 1500 12.5 35 3750 0.012 10000 0.8 5.0 EEUFRIN122() 100 250 12.5 35 3750 0.012 10000 0.8 5.0 EEUFRIN122() 100 250 220 16 25 3820 0.014 10000 0.8 5.0 EEUFRIN122() 100 250 220 16 25 3820 0.014 10000 0.8 5.0 EEUFRIN122() 100 250 220 16 25 3820 0.014 10000 0.8 5.0 EEUFRIN122() 100 250 220 16 25 3820 0.014 10000 0.8 5.0 EEUFRIN122() 100 250 220 22 5 11 250 0.340 5000 0.5 2.0 5.0 2.5 EEUFRIN122() 100 250 22 5 11 250 0.340 5000 0.5 2.0 5.0 2.5 EEUFRIN122() 100 250 22 5 11 250 0.340 5000 0.5 2.5 5.0 2.5 EEUFRIN122() 200 2000 22 5 11 250 0.340 5000 0.5 2.5 5.0 2.5 EEUFRIN122() 200 2000 22 2 5 11 250 0.340 5000 0.5 2.5 5.0 2.5 EEUFRIN122() 200 20			8											
35														
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		820	16	25	2988	0.024	10000	0.8	7.5	7.5		EEUFR1J821()	100	250

[·] When requesting taped product, please put the letter "B" or "H" between the "()". Lead wire pitch B=5 mm, 7.5 mm, H=2.5 mm. · Please refer to the page of "Taping Dimensions".