

CF Series Low Impedance

CF 系列

Features

- Suitable for LED lighting driver and the electronic ballast
- Load life 4000~5000 hrs at 130°C or 105°C 15000~20000 hour, high-temperature resistance, high ripple current and long life
- RoHS Compliant



Case Size

Cap(μF) \ WV(V)	400(450)			450(500)		
	Size	Ripple	Impedance	Size	Ripple	Impedance
1.0	6.3*12	25	25.00	6.3*12	30	33.00
1.2	6.3*12	25	25.00	6.3*12	30	25.00
1.5	8*12	32	25.00	8*12	32	25.00
1.8	8*12	35	25.00	8*12	35	20.00
2.2	8*12	40	20.00	8*12	40	15.00
2.7	8*12	45	15.00	8*12	40	15.00
3.3	8*12	55	15.00	8*16	60	15.00
3.9	8*16	55	15.00	8*16	60	15.00
4.7	10*17	65	10.00	10*17	65	10.00
5.6	10*17	70	10.00	10*17	68	7.50
6.8	10*20	95	10.00	10*20	90	7.50
8.2	13*17	105	7.50	13*20	100	6.00
10	13*17	115	7.50	13*20	120	6.00
12	13*20	130	7.00	13*20	140	6.00
15	13*20	150	6.00	13*25	160	4.50
18	13*25	200	6.00	13*25	200	4.20
22	13*25	200	4.00	16*21	260	3.00
27	16*26	280	4.00	16*26	320	3.00
33	16*26	350	2.90	16*26	420	2.60
39	16*31	390	2.90	16*31	480	2.80
47	16*31	480	2.00	18*32	515	1.80
56	18*32	480	1.80	18*32	550	1.30
68	18*35	580	1.30	18*35	580	1.20
100	20*36	690	1.08	18*35	720	1.02

Ripple Current(mA_{rms}) at 105°C, 100KHz Max Impedance(Ω) at 20°C, 100KHz

● For special designing requirement, please contact us.

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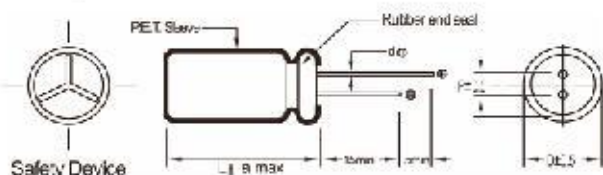
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Specifications

Item	Performance Characteristics						
Operating Temp. Range	-40~+130°C						
Rated Voltage Range	160 to 450 VDC						
Capacitance Range	1 to 100 μ F						
Capacitance Tolerance	$\pm 20\%$ (120Hz, 20°C)						
Leakage Current	$I_L \leq 0.02CV + 20 (\mu A)$ After 2 minutes with rated working voltage applied						
Dissipation Factor(Tan δ) (max, 120Hz, 20°C)	W.V(VDC)	160	200	250	350	400	450
	D.F(%)	12	12	12	15	15	17
Low Temp. Characteristics (Max Impedance Ratio) (120Hz)	W.V(VDC)	160	200	250	350	400	450
	Z(-40°C)/Z(+20°C)	3	3	3	5	6	7
Load Life	After application of the rated voltage at 130°C 4000~5000 hours or 105°C 15000~20000 hours ,the capacitors Shall meet the requirement below Applied voltage: Rated DC working voltage After test requirements at +20°C Capacitance change: $\leq \pm 20\%$ of the initial measured value Dissipation factor: $\leq 200\%$ of the initial specified value Leakage current: $\leq$ the initial specified value						
Shelf Life	Test conditions Duration time: 1000hrs Ambient temperature: +105°C Applied voltage: None After test requirements at +20°C : Same limits as Load life, Pre-treatment for measurements shall be conducted after application of DC working voltage for 30minutes						
Industrial	JIS C-5101-4(IEC30384-4)						

Diagram of dimensions(cunit:mm)



ΦD	5	6.3	8	10	13	16	18	22
Φd	0.5			0.6		0.8		
F	2.0	2.5	3.5	5.0		7.5		10
L	L ± 1.0max			L ± 1.5max		L ± 2.0max		

Multiplier for ripple current vs frequency

Cap.(μ F)	Fre.(Hz)					
	50(60)	120	400	1K	10K	100K
≤ 10	0.47	0.59	0.76	0.85	0.97	1.0
12~100	0.52	0.62	0.80	0.89	0.97	1.0
120~1000	0.58	0.72	0.84	0.90	0.98	1.0
> 1000	0.63	0.78	0.87	0.91	0.98	1.0

Multiplier for ripple current vs temperature

Temp.(°C)	50	70	85	105	130
Multiplier	2.4	2.1	1.8	1.4	1.0

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Case Size

WV(SV) Cap(μF)	160(200)			200(250)			250(300)			350(400)		
	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
1.5										6.3*12	28	20.00
1.8							6.3*12	35	11.8	6.3*12	28	20.00
2.2				6.3*12	40	9.90	8*12	40	11.8	8*12	30	20.00
2.7				6.3*12	40	9.70	8*12	45	11.8	8*12	35	11.00
3.3	6.3*12	50	13.00	6.3*12	40	9.70	8*12	50	10.00	8*12	40	10.00
3.9	6.3*12	50	13.00	8*12	50	9.60	8*12	55	9.80	8*12	45	10.00
4.7	6.3*12	50	13.00	8*12	55	7.50	8*16	60	7.50	8*16	50	10.00
5.6	6.3*12	50	12.10	8*12	60	7.50	8*16	70	7.50	10*16	58	10.00
6.8	8*12	70	12.10	8*12	65	7.50	10*13	90	7.50	10*17	70	10.00
8.2	8*12	70	11.00	8*16	75	7.50	8*20	90	7.50	10*20	80	7.50
10	8*12	95	10.80	8*16	90	7.30	10*20	130	3.50	13*17	80	7.50
12	8*16	95	10.80	10*17	95	6.00	10*20	135	3.40	13*17	85	7.50
15	10*17	105	7.30	10*17	120	3.50	13*17	140	3.20	13*20	100	6.00
18	10*17	130	7.30	10*20	120	3.20	13*17	160	3.20	13*20	130	6.00
22	10*17	140	4.20	10*20	140	3.20	13*20	180	3.20	13*25	250	6.00
27	10*20	150	4.20	13*17	168	2.00	13*20	210	3.20	13*25	330	6.00
33	10*20	180	2.50	13*20	175	1.60	13*25	230	2.20	16*21	400	2.20
39	13*17	200	2.40	13*20	195	1.60	13*25	280	2.20	16*26	450	2.20
47	13*17	200	2.40	13*25	250	1.30	16*26	300	2.20	18*22	480	2.20
56	13*20	220	2.40	16*21	280	1.20	16*26	350	2.00	18*26	480	2.00
68	13*25	240	2.20	16*26	300	1.20	18*26	380	1.30	18*31	500	1.30
100	13*25	260	1.78	16*26	360	1.10	16*31	460	1.10	18*32	650	1.10

Ripple Current(mA,rms) at 105℃, 100KHz Max Impedance(Ω) at 20℃, 100KHz