

PH series High Voltage/High Reliability

Features

- ◆ High voltage and high reliability
- ◆ Large permissible ripple current.
- ◆ Low ESR at high frequency range.



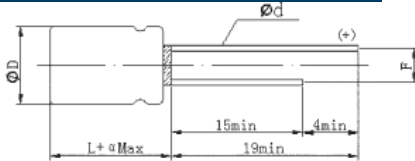
Specifications

Item	Performance Characteristics	
Operating Temp. Range	-55°C~+105°C	
Rated Voltage Range	35 ~100V DC	
Capacitance Range	8.2~330 μ F	
Capacitance Tolerance	$\pm 20\%$ (120Hz, +20°C)	
Leakage Current	Not to exceed the values shown in Standard Ratings (Rated voltage applied, after 2 minutes at 20°C)	
Dissipation Factor ($\tan \delta$, at 20°C, 120Hz)	Not to exceed the values shown in Standard Ratings	
ESR (at 100KHz, 20°C)	Not to exceed the values shown in Standard Ratings	
Endurance 105°C, 2000h, at rated voltage	Capacitance Change	Within $\pm 20\%$ of the value before test
	Leakage current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified
Moisture Resistance Stored at 60°C, RH90~95%, 1000h	Capacitance Change	Within $\pm 20\%$ of the value before test
	Leakage Current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified

Frequency Coefficient for Ripple Current

Frequency	120Hz $\leq$ freq. < 1KHz	1KHz $\leq$ freq. < 10KHz	10KHz $\leq$ freq. < 100KHz	100KHz $\leq$ freq. < 300KHz
Coefficient	0.05	0.3	0.7	1

Diagram of Dimensions:(unit:mm)



$\phi D \times L$	$\phi D \pm 0.5$	α	$F \pm 0.5$	$\phi d \pm 0.05$
6.3x8	6.3	1.0	2.5	0.6
8x8	8.0	1.0	3.5	0.6
8x9/8x11.5	8.0	1.5	3.5	0.6
10x10	10.0	1.5	5.0	0.6
10x12.5	10.0	1.5	5.0	0.6

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Standard Ratings

W.V. (V)	Cap(μ F)	Size $\phi D \times L$ (mm)	L.C. (μ A, 2min)	$\tan \delta$ (120Hz, 20°C)	ESR (m Ω , 100KHz)	Maximum Permissible Ripple Current(mA, r.m.s)
35	33	6.3x8	231	0.12	30	2500
	47	8x8	329	0.12	30	2700
	56	8x8	392	0.12	30	2700
	68	8x8	476	0.12	30	2700
		8x11.5	476	0.12	20	3600
	82	8x11.5	574	0.12	20	3600
		8x8	700	0.12	25	2800
	100	8x11.5	700	0.12	20	3600
		8x11.5	1050	0.12	15	4400
	220	10x12.5	1540	0.12	20	4000
50	270	10x12.5	1890	0.12	20	4000
	330	10x12.5	2310	0.12	18	4400
	22	6.3x8	220	0.12	45	2300
		8x8	330	0.12	45	2300
		8x11.5	330	0.12	32	2700
	47	8x11.5	470	0.12	30	2800
		8x11.5	560	0.12	30	2800
		10x10	560	0.12	30	2800
	56	10x12.5	560	0.12	25	3400
		8x8	680	0.12	40	2400
		8x11.5	680	0.12	30	2800
		10x12.5	680	0.12	25	3400

Ripple Current(mA,rms)at 105°C,100KHz

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Standard Ratings						
W.V. (V)	Cap(μF)	Size φDxL(mm)	L.C. (μA,2min)	tgδ (120Hz,20℃)	ESR (m Ω,100KHz)	Maximum Permissible Ripple Current(mA,r.m.s)
50	82	10x12.5	820	0.12	25	3400
	100	10x12.5	1000	0.12	25	3400
	120	10x12.5	1200	0.12	25	3400
63	10	6.3x8	126	0.12	45	1900
		8x11.5	126	0.12	45	2100
	22	8x8	277.2	0.12	45	2100
	33	8x11.5	415.8	0.12	35	2500
	47	8x11.5	592.2	0.12	35	2500
	56	10x12.5	705.6	0.12	30	3000
	68	10x12.5	856.8	0.12	30	3000
	82	10x12.5	1033.2	0.12	30	3000
	150	10x12.5	1890	0.12	30	3000
100	10	8x9	200	0.12	42	2100
	22	8x11.5	440	0.12	35	2800
	33	8x11.5	660	0.12	35	2800

Ripple Current(mA,rms)at 105℃,100KHz