

PH series High Voltage/High Reliability

Features

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



Specifications

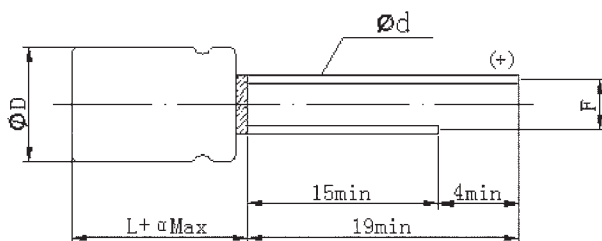
Item	Performance Characteristics	
Operating Temp. Range	-55°C ~ +105°C	
Capacitance Range	10 ~ 150 μF	
Capacitance Tolerance	M : ±20%	
Rated Voltage Range	35 ~ 50V DC	
Dissipation Factor (at 120Hz, 20°C)	Not to exceed the value specified	
Leakage Current	≤ 0.2CV (μA, after 2 minutes)	
ESR (100K~300KHz)	Not to exceed the value specified	
Endurance 105°C, 2000h, at rated voltage	Capacitance Change	Within ±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 ±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

Conductive Polymer

Frequency Coefficient for Ripple Current

Frequency	120Hz ≤ freq. < 1KHz	1KHz ≤ freq. < 10KHz	10KHz ≤ freq. < 100KHz	100KHz ≤ freq. < 300KHz
Coefficient	0.05	0.3	0.7	1

Diagram of Dimensions:(unit:mm)



φD × L	φD + 0.5max.	α	F ± 0.5	φd ± 0.05
6.3 × 8	6.3	1.0	2.5	0.6
8 × 8	8.0	1.0	3.5	0.6
8 × 11.5	8.0	1.5	3.5	0.6
10 × 12.5	10.0	1.5	5.0	0.6

Dimensions & Characteristics

φ D×L(mm)

W.V. (V)	Capacitance (μF)	L.C. (μA,2min)	tg δ (120Hz,20°C)	ESR (mΩ,100KHZ)	Maximum Permissible Ripple Current(mA,r.m.s)	Size φ D×L(mm)
35	10	100	0.12	40	2100	6.3×8
				25	2890	8×11.5
	22	154	0.12	40	2100	6.3×8
				25	2890	8×11.5
	33	231	0.12	30	2500	8×8
				25	2890	8×11.5
	39	273	0.12	30	2500	8×8
				25	2890	8×11.5
	47	329	0.12	25	2890	8×11.5
					3500	10×12.5
	56	392	0.12	25	2890	8×11.5
					3500	10×12.5
68	476	0.12	25	2890	8×11.5	
			20	3700	10×12.5	
82	574	0.12	25	3700	10×12.5	
100	700	0.12	25	3700	10×12.5	
150	1050	0.12	25	3700	10×12.5	
50	10	100	0.12	45	1500	8×8
				40	1800	8×11.5
	22	220	0.12	40	1800	8×11.5
	33	330	0.12	35	2000	10×12.5
	39	390	0.12	35	2000	10×12.5
	47	470	0.12	35	2000	10×12.5
	56	560	0.12	35	2000	10×12.5
68	680	0.12	35	2000	10×12.5	

Ripple Current (mA, rms) at 105°C, 100KHz