

PC series

sales016@heyuecap.com

- Low ESR at high frequency range.
- Rated voltage :2.5~63V.
- Endurance:15,000hours at 105°C
- Applications:LCD Monitor,LCD-TV,D/A Inverter,SPS,D/D Converter.etc.
- ROHS compliant
- Halogen Free compliant



SPECIFICATIONS

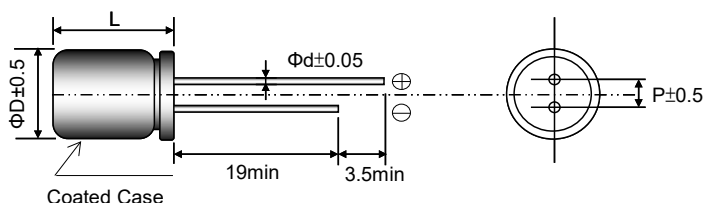
Items	Conditions	Characteristics	
Category Temperature Range	—	-55 to +105°C	
Rated Voltage Range	—	2.5~63V	
Capacitance Tolerance	at 20°C,120HZ	±20%(M)	
Surge Voltage	at 105°C	Rated voltage ×1.15V	
Leakage Current	at 20°CAfter 2 minutes	I≤0.2CV or 300(μA) Whichever is greater measured,after 2minutes application of rated working voltage at +20°C. Please see the attached characteristics list	
Dissipation Factor (tan δ)	at 20°C,120Hz	Please see the attached characteristics list	
Low Temperature Characteristics (Max. Impedance Ratio)	at -55°C,100kHz	Z(-55°C)/Z(+20°C)	≤ 1.25
	at -25°C,100kHz	Z(-25°C)/Z(+20°C)	≤ 1.15
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°Cafter the rated voltage is applied for 15,000 hours at 105°C.	Appearance	No significant damage.
		Capacitance change	≤±20% of the initial value.
		DF(tanδ)	≤150% of the initial specified value.
		ESR	≤150% of the initial specified value.
		Leakage current	≤The initial specified value.
Damp Heag (Steady State)	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to subjecting them to store at 60°C, 90 to 95% RH for 1,000 hours ,without DC applied.	Appearance	No significant damage.
		Capacitance change	≤±20% of the initial value.
		DF(tanδ)	≤150% of the initial specified value.
		ESR	≤150% of the initial specified value.
		Leakage current	≤The initial specified value.
Surge Voltage	The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 105°C for 30 seconds through aprotective resistor (R=1kΩ) and discharge for 5 minutes 30seconds	Appearance	No significant damage.
		Capacitance change	≤±20% of the initial value.
		DF(tanδ)	≤150% of the initial specified value.
		ESR	≤150% of the initial specified value.
		Leakage current	≤The initial specified value.

※ Note:If any doubt arises,measure the leakage current after following voltage treatment.
Voltage treatment :DC rated voltage are applied to the capacitors for 120 minutes at 105°C.

MARKING AND DIMENSIONS

Polarity Marking
(Cathode)

Series Code
Rated Capacitance
Rated Voltage



(Unit:mm)

Size	5X6	6.3X6	6.3X9	6.3X10.5	8X8	8X11.5	8X14	8X16	8X20	10X11.5	10X14	10X16
ΦD	5	6.3	6.3	6.3	8	8	8	8	8	10	10.0	10.0
L	L+1.0 max	L+1.0 max	L+1.0 max	L+1.5 max	L+1.5 max	L+1.5 max	L+1.0 max	L+1.0 max	L+1.5 max	L+1.5 max	L+1.0 max	L+1.5 max
Φd	0.45	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
P	2.0	2.5	2.5	2.5	3.5	3.5	3.5	3.5	3.5	5.0	5.0	5.0

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STANDARD RATINGS

Rated Voltage (S.V.)	Cap (μ F)	Size Code DxL	Leakage current (μ A) max.	ESR (m Ω) max. 100k to 300kHz / 20°C	Rated Ripple Current (mA rms) 100kHz / 105°C	D.F. (tan δ) max. 120Hz / 20°C
2.5 (2.9)	560	6.3×9	300	8	5080	0.12
	560	8×8	300	7	5820	0.12
	820	6.3×9	410	8	5080	0.12
	1200	8×8	600	7	5580	0.12
	1500	8×11.5	750	7	5820	0.12
	2,700	10×11.5	1350	7	6100	0.12
4 (4.6)	560	6.3×9	448	8	5080	0.12
	560	8×8	448	7	5580	0.12
	680	8×8	544	7	5580	0.12
	820	8×11.5	656	7	5820	0.12
	2200	10×11.5	1760	7	6100	0.12
6.3 (7.2)	100	5×6	300	13	1500	0.12
	220	5×8	300	12	2400	0.12
	470	6.3×9	592	10	4500	0.12
	560	6.3×9	706	10	5080	0.12
	560	8×8	706	10	5580	0.12
	1,000	8×11.5	1260	7	5820	0.12
	1,000	10×11.5	1260	7	6200	0.12
	2,200	10×11.5	2772	7	6200	0.12
10 (11.5)	220	6.3×9	440	10	2820	0.12
	270	6.3×9	540	10	5580	0.12
	560	8×8	1120	8	5580	0.12
	680	8×8	1360	9	5580	0.12
	820	8×11.5	1640	9	5820	0.12
	1,000	10×11.5	2000	9	6100	0.12
	1500	10×11.5	3000	9	6100	0.12
16 (18.4)	82	6.3×6	300	30	2200	0.12
	100	6.3×6	320	30	2200	0.12
	220	6.3×9	704	15	3500	0.12
	270	6.3×9	864	15	3500	0.12
	330	6.3×10.5	1056	15	3500	0.12
	470	8×8	1504	13	4500	0.12
	470	8×11.5	1504	13	5400	0.12
	470	10×11.5	1504	13	6100	0.12
	560	8×11.5	1792	16	5400	0.12
	680	10×11.5	2176	16	6100	0.12
	820	10×11.5	2624	10	6100	0.12
	1000	8×16	3200	10	6100	0.12
	1000	10×12	3200	10	6100	0.12
	1500	8×20	4800	8	6100	0.12
	1500	10×16	4800	8	6500	0.12
	1800	10×20	5760	8	6800	0.12
	2200	10×20	7040	8	6800	0.12

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20 (23)	22	6.3×6	300	60	1450	0.12
	82	6.3×6	328	60	1450	0.12
	220	6.3×9	880	40	1620	0.12
	330	8×8	1320	40	2400	0.12
	470	8×11.5	1880	24	3320	0.12
	820	10×11.5	3280	20	3800	0.12
25 (28.8)	6.8	6.3×6	300	80	1200	0.12
	47	6.3×6	300	40	2000	0.12
	100	6.3×9	500	30	2150	0.12
	180	8×8	900	30	2580	0.12
	220	8×11.5	1100	25	3200	0.12
	330	10×10	1650	28	3800	0.12
	470	10×11.5	2350	25	4100	0.12
	560	10×14	2800	16	4500	0.12
	680	8×16	3400	16	4600	0.12
	820	10×14	4100	16	5000	0.12
35 (40.3)	22	6.3×6	300	70	1450	0.12
	68	6.3×9	476	40	1500	0.12
	82	8×7	574	60	1800	0.12
	100	8×8	700	30	2100	0.12
	100	8×11.5	700	26	2300	0.12
	100	10×11.5	700	24	3000	0.12
	150	8×8	1050	30	2500	0.12
	180	8×11.5	1260	26	2800	0.12
	220	10×10	1540	26	3000	0.12
	220	10×11.5	1540	24	3200	0.12
	330	10×11.5	2310	24	3600	0.12
	470	10×16	3290	20	5000	0.12
50 (57.5)	12	6.3×9	300	60	1500	0.12
	33	6.3×9	330	60	1500	0.12
	33	8×7	330	60	1500	0.12
	47	8×8	470	32	1850	0.12
	68	8×11.5	680	30	2250	0.12
	47	8×11.5	470	30	2250	0.12
	100	10×11.5	1000	28	2560	0.12
	150	10×11.5	1500	28	2620	0.12
63 (72.5)	22	6.3×9	300	60	1500	0.12
	33	8×8	415	32	2050	0.12
	33	10×10	415	32	2200	0.12
	47	8×11.5	592	26	2200	0.12
	56	10×10	705	30	2300	0.12
	82	10×11.5	1033	26	2350	0.12
	100	10×11.5	1260	25	2550	0.12

FREQUENCY COEFFICIENT FOR RIPPLE CURRENT

Frequency	120Hz ≤ f < 1kHz	1kHz ≤ f < 10kHz	10kHz ≤ f < 100kHz	100kHz ≤ f < 500kHz
Coefficient	0.05	0.3	0.7	1.0