

PHE426

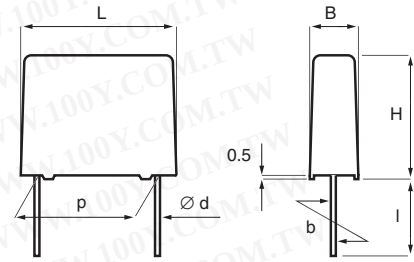
- Single metallized film pulse capacitor, polypropylene dielectric
- According to IEC 60384-16, grade 1.1

TYPICAL APPLICATIONS

Pulse operation in SMPS, TV, monitor, electrical ballast and other high frequency applications demanding stable operation.

CONSTRUCTION

Polypropylene film capacitor with vacuum evaporated aluminum electrodes. Radial leads of tinned wire are electrically welded to the contact metal layer on the ends of the capacitor winding. Encapsulation in self-extinguishing material meeting the requirements of UL 94V-0.



TECHNICAL DATA

Rated voltage U_R, VDC	100	250	300	400	630	1000
Rated voltage U_R, VAC	63	160	160	220	250	250
Capacitance range, μF	0.001 -0.22	0.001 -27	0.033 -18	0.001 -10	0.001 -5.6	0.0033 -3.3

Capacitance values In accordance with IEC E12 series

Capacitance tolerance $\pm 5\%$, other tolerances on request

Category temperature range $-55 \dots +105^\circ C$

Rated temperature $+85^\circ C$

Voltage derating The rated voltage is decreased with $1.3\%/^\circ C$ between $+85^\circ C$ and $+105^\circ C$.

Climatic category IEC 60068-1, 55/105/56/B

Passive flammability Category B according to IEC 60065

Maximum pulse steepness: dU/dt according to article table
For peak to peak voltages lower than rated voltage ($U_{pp} < U_R$), the specified dU/dt can be multiplied by the factor U_R/U_{pp}

Temperature coefficient $-200 (+50, -100) \text{ ppm}/^\circ C$ (at 1 kHz)

Self-inductance Approximately 6 nH/cm for the total length of capacitor winding and the leads.

	Maximum values at $+23^\circ C$		
	$C \leq 0.1 \mu F$	$0.1 \mu F < C \leq 1.0 \mu F$	$C > 1.0 \mu F$
1 kHz	0.05%	0.05%	0.10%
10 kHz	—	0.10%	—
100 kHz	0.25%	—	—

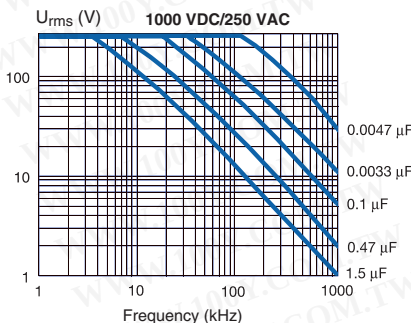
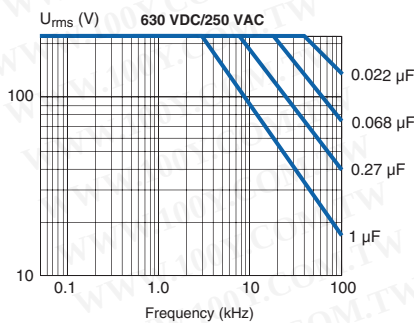
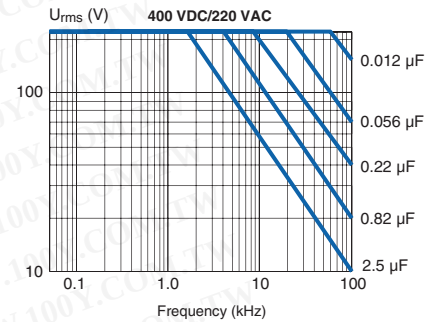
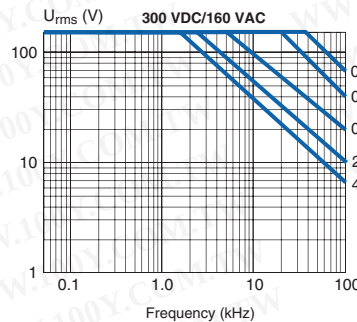
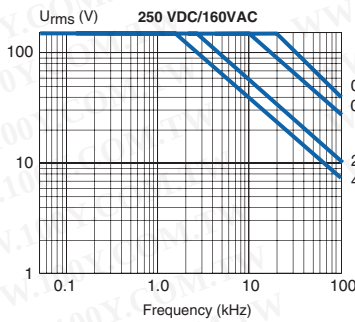
Insulation resistance Measured at $+23^\circ C$, 100 VDC 60 s for $U_R < 500$ VDC and at 500 VDC for $U_R \geq 500$ VDC

Between terminals:
 $C \leq 0.33 \mu F: \geq 100\,000 \text{ M}\Omega$
 $C > 0.33 \mu F: \geq 30\,000 \text{ s}$
 Between terminals and case:
 $\geq 100\,000 \text{ M}\Omega$

p	d	std l	max l	b
5.0 ± 0.4	0.5	5^{-1}	30	± 0.4
7.5 ± 0.4	0.6	5^{-1}	30	± 0.4
10.0 ± 0.4	0.6	5^{-1}	30	± 0.4
15.0 ± 0.4	0.8	6^{-1}	30	± 0.4
22.5 ± 0.4	0.8	6^{-1}	30	± 0.4
27.5 ± 0.4	0.8	6^{-1}	30	± 0.4
37.5 ± 0.5	1.0	6^{-1}	30	± 0.7

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

DERATING OF U_{RMS} VS FREQUENCY, +85°C AMBIENT TEMPERATURE AND 10°C INTERNAL HEATING, TYPICAL VALUES



More simulation possibilities
in PCCAD software package.
See page 106.

ENVIRONMENTAL TEST DATA

According to IEC 60384-16, Grade 1.1 and Quality tests and requirements for Pulse Capacitors on page 107.

ORDERING INFORMATION

The article code for the standard part is given in the article table.
For other options, see page 12.

MARKING

- RIFA
- Article code
- Rated capacitance according to IEC 60062
- Capacitance tolerance code
- Rated voltage
- Manufacturing code (year, month)

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

ARTICLE TABLE

Capaci- tance μF	Box code	Max dimensions in mm			Max dU/dt V/μs	Rthha °C/W 85 °C 0.2 m/s	Article code
		B	H	L			

1000 VDC/250 VAC

LEAD SPACING 15 MM

0.068	B14	9.5	17.5	18.0	450	60	PHE426PB5680JR06
0.082	B14	9.5	17.5	18.0	450	60	PHE426PB5820JR06
0.10	B14	9.5	17.5	18.0	450	60	PHE426PB6100JR06

LEAD SPACING 22.5 MM

0.033	D13	6.5	14.5	26.0	300	58	PHE426PD5330JR06L2
0.039	D13	6.5	14.5	26.0	300	58	PHE426PD5390JR06L2
0.047	D13	6.5	14.5	26.0	300	58	PHE426PD5470JR06L2
0.056	D17	7.0	16.5	26.0	300	53	PHE426PD5560JR06L2
0.068	D17	7.0	16.5	26.0	300	53	PHE426PD5680JR06L2
0.082	D14	8.0	16.0	26.0	300	53	PHE426PD5820JR06L2
0.10	D15	9.0	18.5	26.0	300	48	PHE426PD6100JR06L2
0.12	D15	9.0	18.5	26.0	300	48	PHE426PD6120JR06L2
0.15	D18	10.5	19.0	26.0	300	45	PHE426PD6150JR06L2
0.18	D16	11.0	21.5	26.0	300	40	PHE426PD6180JR06L2
0.22	D16	11.0	21.5	26.0	300	40	PHE426PD6220JR06L2
0.27	D19	15.5	24.5	26.0	300	40	PHE426PD6270JR06L2

LEAD SPACING 27.5 MM

0.10	F11	10.5	20.5	31.5	180	37	PHE426PF6100JR06L2
0.12	F11	10.5	20.5	31.5	180	37	PHE426PF6120JR06L2
0.15	F11	10.5	20.5	31.5	180	37	PHE426PF6150JR06L2
0.18	F11	10.5	20.5	31.5	180	37	PHE426PF6180JR06L2
0.18	F17	21.0	12.5	31.5	180	37	PHE426PT6180JR06L2
0.22	F12	11.5	22.5	31.5	180	34	PHE426PF6220JR06L2
0.27	F03	13.5	23.0	31.5	180	33	PHE426PF6270JR06L2
0.33	F13	14.5	24.5	31.5	180	32	PHE426PF6330JR06L2
0.39	F14	17.5	28.0	31.5	180	28	PHE426PF6390JR06L2
0.39	F19	27.5	16.0	31.5	180	28	PHE426PT6390JR06L2
0.47	F14	17.5	28.0	31.5	180	28	PHE426PF6470JR06L2
0.56	F15	19.0	29.0	31.5	180	26	PHE426PF6560JR06L2
0.56	F18	31.0	18.5	31.5	180	26	PHE426PT6560JR06L2
0.68	F16	21.0	30.0	31.5	180	26	PHE426PF6680JR06L2

Capaci- tance μF	Box code	Max dimensions in mm			Max dU/dt V/μs	Rthha °C/W 85 °C 0.2 m/s	Article code
		B	H	L			

1000 VDC/250 VAC

LEAD SPACING 37.5 MM

0.33	R05	13.0	24.0	41.0	100	27	PHE426PR6330JR06L2
0.39	R05	13.0	24.0	41.0	100	27	PHE426PR6390JR06L2
0.47	R04	15.0	26.0	41.0	100	25	PHE426PR6470JR06L2
0.56	R04	15.0	26.0	41.0	100	25	PHE426PR6560JR06L2
0.68	R02	16.5	32.0	41.0	100	21	PHE426PR6680JR06L2
0.82	R02	16.5	32.0	41.0	100	21	PHE426PR6820JR06L2
1.0	R03	19.0	36.0	41.0	100	19	PHE426PR7100JR06L2
1.2	R03	19.0	36.0	41.0	100	19	PHE426PR7120JR06L2
1.5	R03	19.0	36.0	41.0	100	19	PHE426PR7150JR03R06L2*
1.8	R06	21.0	38.0	41.0	100	17	PHE426PR7180JR06L2
2.2	R06	21.0	38.0	41.0	100	17	PHE426PR7220JR06R06L2*
2.7	R08	28.0	43.0	41.0	100	15	PHE426PR7270JR06L2
3.3	R08	28.0	43.0	41.0	100	15	PHE426PR7330JR06L2

* Please note: These articles have a box code included in the article code, see page 13.

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)