

PHE 427

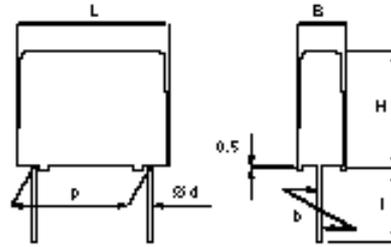
- According to IEC 384-17 Grade 1.1
- High frequency operation
- High dU/dt

Typical applications

High frequency applications with high current stress, such as deflection circuits in TV-sets, protection circuits in SMPS and in electronic ballasts.

Construction

Polypropylene dielectric with double metallized polyester film as electrodes. Encapsulation in self-extinguishing material meeting the requirements of UL 94V-0.



p	d	≤tdl	maxl	b
7.5±0.4	0.6	4+1	20	±0.4
10.0±0.4	0.6	6-1	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

General data

Rated voltage U_R VDC	160	250	400	630	1000
Rated voltage U_R VAC	100	160	220	300	375
Capacitance range, µF	0.047–	0.00068–	0.00068–	0.00068–	0.00068–
	6.8	4.7	2.2	1.2	0.0082
Capacitance values	In accordance with IEC E12-series.				
Capacitance tolerance	±5% standard. Other tolerances on request				
Temperature range	–55° C to +105° C				
Voltage derating	The rated voltage is decreased with 1.3% / ° C between +85° C and +105° C				
Climatic category	55/105/56				
Insulation resistance	Measured at 23° C, 100 VDC 60s for U _R < 500 VDC and at 500 VDC for U _R = 500 VDC Between terminals: C < 0.33 µF: 100 000 M C > 0.33 µF: 30 000 F Between terminals and case: 100 000 M				
Dissipation factor, 23°C	C	0.1 µF	0.1 µF < C	1.0 µF	C > 1.0 µF
Maximum values	1 kHz	0.03 %	0.03 %	0.03 %	0.03 %
	10 kHz	0.04 %	0.06 %	–	–
	100 kHz	0.15 %	–	–	–
Inductance	Approximately 6 nH/cm for the total length of capacitor winding and the leads.				

Electrical characteristics

Pulse rise time

The capacitors can withstand an unlimited number of pulses with a dU/dt according to the article table. For peak to peak voltages lower than the rated voltage (U_{pp} < U_R), the specified dU/dt can be multiplied by U_R/U_{pp}.

Environmental test data

Vibration	According to IEC 68-2-6 test Fc. 10–500 Hz for lead space 22.5 mm, 10–55 Hz for lead space 27.5 mm. 6 h with 0.75 mm amplitude or 98 m/s ² (depending on frequency) with the capacitor mounted on PCB with the supporting area in contact with the PCB.
Climatic sequence	According to IEC 384-1.
Bump	According to IEC 68-2-29 test Eb. 4000 bumps at 390 m/s ² with the capacitor mounted on PCB with the supporting area in contact with the PCB.
Humidity	According to IEC 68-2-3 test Ca, severity 56 days.

Article table PHE 427

Capacitance μF	Max dimensions in mm				Quantity per package			Weight		Max dU/dt $\text{V}/\mu\text{s}$	R_{thha} °C/W 85 °C 0.2 m/s	Article code 1st block
	B	H	L	p	Bulk	Tray	Reel	Ammo	g			
160 VDC/100 VAC												
Lead spacing 10 mm												
0.047	5.0	11.0	13.0	10.0	1000		700		1.0	400	116	PHE 427FA5470J
0.056	5.0	11.0	13.0	10.0	1000		700		1.0	400	116	PHE 427FA5560J
0.068	5.0	11.0	13.0	10.0	1000		700		1.0	400	115	PHE 427FA5680J
Lead spacing 15 mm												
0.082	5.5	10.5	18.0	15.0	1000		600		1.5	200	100	PHE 427FB5820J
0.10	5.5	10.5	18.0	15.0	1000		600		1.5	200	98	PHE 427FB6100J
0.12	5.5	12.5	18.0	15.0	500		600		1.7	200	85	PHE 427FB6120J
0.15	6.5	12.5	18.0	15.0	500		500		2.0	200	82	PHE 427FB6150J
0.18	7.5	14.5	18.0	15.0	500		400		2.7	200	74	PHE 427FB6180J
0.22	7.5	14.5	18.0	15.0	500		400		2.7	200	72	PHE 427FB6220J
0.27	8.5	16.0	18.0	15.0	500		400		3.4	200	65	PHE 427FB6270J
0.33	8.5	16.0	18.0	15.0	500		400		3.4	200	64	PHE 427FB6330J
Lead spacing 22.5 mm												
0.22	6.5	14.5	26.0	22.5			440		3.2	100	58	PHE 427FD6220J
0.27	7.0	16.5	26.0	22.5			407		3.9	100	53	PHE 427FD6270J
0.33	7.0	16.5	26.0	22.5			407		3.9	100	52	PHE 427FD6330J
0.39	8.0	16.0	26.0	22.5			352		4.3	100	52	PHE 427FD6390J
0.47	8.0	16.0	26.0	22.5			352		4.3	100	52	PHE 427FD6470J
0.56	9.0	18.5	26.0	22.5			308		5.6	100	46	PHE 427FD6560J
0.68	9.0	18.5	26.0	22.5			308		5.6	100	46	PHE 427FD6680J
0.82	11.0	21.5	26.0	22.5			253		8.0	100	40	PHE 427FD6820J
1.0	11.0	21.5	26.0	22.5			253		8.0	100	39	PHE 427FD7100J
Lead spacing 27.5 mm												
1.0	10.5	20.5	31.5	27.5			216		8.8	60	37	PHE 427FF7100J
1.2	11.5	22.5	31.5	27.5			198		10.6	60	34	PHE 427FF7120J
1.5	11.5	22.5	31.5	27.5			198		10.6	60	34	PHE 427FF7150J
1.8	17.5	28.0	31.5	27.5			126		19.7	60	28	PHE 427FF7180J
2.2	17.5	28.0	31.5	27.5			126		19.7	60	27	PHE 427FF7220J
Lead spacing 37.5 mm												
1.8	13.0	24.0	41.0	37.5			140		16.6	50	27	PHE 427FR7180J
2.2	15.0	26.0	41.0	37.5			119		20.8	50	26	PHE 427FR7220J
2.7	15.0	26.0	41.0	37.5			119		20.8	50	25	PHE 427FR7270J
3.3	15.0	26.0	41.0	37.5			119		20.8	50	25	PHE 427FR7330J
3.9	16.5	32.0	41.0	37.5			105		28.1	50	21	PHE 427FR7390J
4.7	16.5	32.0	41.0	37.5			105		28.1	50	20	PHE 427FR7470J
5.6	19.0	36.0	41.0	37.5			91		36.5	50	18	PHE 427FR7560J
6.8	19.0	36.0	41.0	37.5			91		36.5	50	18	PHE 427FR7680J
250 VDC/160 VAC												
Lead spacing 7.5 mm												
0.0068	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK3680J
0.0082	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK3820J
0.0010	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK4100J
0.0012	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK4120J
0.0015	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK4150J
0.0018	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK4180J
0.0022	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK4220J
0.0027	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK4270J
0.0033	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK4330J
0.0039	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK4390J
0.0047	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK4470J
0.0056	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK4560J
0.0068	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK4680J
0.0082	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK4820J
0.010	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK5100J
0.012	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK5120J
0.015	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK5150J
0.018	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK5180J
0.022	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE 427HK5220J
0.027	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	800	160	PHE 427HK5270J
0.033	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	800	160	PHE 427HK5330J

Article table PHE 427

Capacitance µF	Max dimensions in mm				Quantity per package			Weight		Max dU/dt V/µs	R _{thha} °C/W 85 °C 0.2 m/s	Article code 1st block
	B	H	L	p	Bulk	Tray	Reel	Ammo	g			
250 VDC/160 VAC												
Lead spacing 7.5 mm												
0.039	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	800	160	PHE 427HK5390J
0.047	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	800	160	PHE 427HK5470J
0.056	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	800	160	PHE 427HK5560J
0.068	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	800	160	PHE 427HK5680J
Lead spacing 10 mm												
0.015	4.0	9.0	13.0	10.0	1000		900		0.6	400	142	PHE 427HA5150J
0.018	4.0	9.0	13.0	10.0	1000		900		0.6	400	142	PHE 427HA5180J
0.022	4.0	9.0	13.0	10.0	1000		900		0.6	400	142	PHE 427HA5220J
0.027	4.0	9.0	13.0	10.0	1000		900		0.6	400	139	PHE 427HA5270J
0.033	4.5	10.5	13.0	10.0	1000		800		0.9	400	121	PHE 427HA5330J
0.039	5.0	11.0	13.0	10.0	1000		700		1.0	400	116	PHE 427HA5390J
Lead spacing 15 mm												
0.047	5.5	10.5	18.0	15.0	1000		600		1.5	600	100	PHE 427HB5470J
0.056	5.5	10.5	18.0	15.0	1000		600		1.5	600	100	PHE 427HB5560J
0.068	5.5	10.5	18.0	15.0	1000		600		1.5	600	98	PHE 427HB5680J
0.082	5.5	12.5	18.0	15.0	500		600		1.7	600	86	PHE 427HB5820J
0.10	6.5	12.5	18.0	15.0	500		400		2.0	600	83	PHE 427HB6100J
0.12	7.5	14.5	18.0	15.0	500		400		2.7	600	74	PHE 427HB6120J
0.15	7.5	14.5	18.0	15.0	500		400		2.7	600	73	PHE 427HB6150J
0.18	8.5	16.0	18.0	15.0	500		400		3.4	600	67	PHE 427HB6180J
0.22	8.5	16.0	18.0	15.0	500		400		3.4	600	65	PHE 427HB6220J
Lead spacing 22.5 mm												
0.18	6.5	14.5	26.0	22.5			440		3.2	400	58	PHE 427HD6180J
0.22	7.0	16.5	26.0	22.5			407		3.9	400	53	PHE 427HD6220J
0.27	7.0	16.5	26.0	22.5			407		3.9	400	52	PHE 427HD6270J
0.33	9.0	18.5	26.0	22.5			308		5.6	400	48	PHE 427HD6330J
0.39	9.0	18.5	26.0	22.5			308		5.6	400	46	PHE 427HD6390J
0.47	9.0	18.5	26.0	22.5			308		5.6	400	46	PHE 427HD6470J
0.56	11.0	21.5	26.0	22.5			253		8.0	400	41	PHE 427HD6560J
0.68	11.0	21.5	26.0	22.5			253		8.0	400	40	PHE 427HD6680J
Lead spacing 27.5 mm												
0.56	10.5	20.5	31.5	27.5			216		8.0	300	38	PHE 427HF6560J
0.68	10.5	20.5	31.5	27.5			216		8.0	300	38	PHE 427HF6680J
0.82	11.5	22.5	31.5	27.5			198		10.6	300	34	PHE 427HF6820J
1.0	11.5	22.5	31.5	27.5			198		10.6	300	34	PHE 427HF7100J
1.2	14.5	24.5	31.5	27.5			153		14.5	300	31	PHE 427HF7120J
1.5	14.5	24.5	31.5	27.5			153		14.5	300	30	PHE 427HF7150J
1.8	17.5	28.0	31.5	27.5			126		19.7	300	27	PHE 427HF7180J
2.2	17.5	28.0	31.5	27.5			126		19.7	300	26	PHE 427HF7220J
Lead spacing 37.5 mm												
1.5	13.0	24.0	41.0	37.5			140		16.6	200	27	PHE 427HR7150J
1.8	15.0	26.0	41.0	37.5			119		20.8	200	25	PHE 427HR7180J
2.2	16.5	32.0	41.0	37.5			105		28.1	200	22	PHE 427HR7220J
2.7	16.5	32.0	41.0	37.5			105		28.1	200	22	PHE 427HR7270J
3.3	16.5	32.0	41.0	37.5			105		28.1	200	20	PHE 427HR7330J
3.9	19.0	36.0	41.0	37.5			91		36.5	200	18	PHE 427HR7390J
4.7	19.0	36.0	41.0	37.5			91		36.5	200	18	PHE 427HR7470J
400 VDC/220 VAC												
Lead spacing 7.5 mm												
0.00068	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK3680J
0.00082	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK3820J
0.0010	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK4100J
0.0012	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK4120J
0.0015	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK4150J
0.0018	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK4180J
0.0022	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK4220J
0.0027	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK4270J
0.0033	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK4330J
0.0039	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK4390J
0.0047	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK4470J

Article table PHE 427

Capacitance μF	Max dimensions in mm				Quantity per package			Weight		Max dU/dt $\text{V}/\mu\text{s}$	R_{thha} °C/W 85 °C 0.2 m/s	Article code 1st block
	B	H	L	p	Bulk	Tray	Reel	Ammo	g			
400 VDC/220 VAC												
Lead spacing 7.5 mm												
0.0056	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK4560J
0.0068	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK4680J
0.0082	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK4820J
0.010	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK5100J
0.012	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE 427KK5120J
0.015	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1200	160	PHE 427KK5150J
0.018	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1200	160	PHE 427KK5180J
0.022	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1200	160	PHE 427KK5220J
0.027	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1200	160	PHE 427KK5270J
0.033	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1200	160	PHE 427KK5330J
0.039	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1200	160	PHE 427KK5390J
Lead spacing 10 mm												
0.0082	4.0	8.0	13.0	10.0	1000		900		0.6	600	142	PHE 427KA4820J
0.010	4.0	9.0	13.0	10.0	1000		900		0.6	600	142	PHE 427KA5100J
0.012	4.0	9.0	13.0	10.0	1000		900		0.6	600	142	PHE 427KA5120J
0.015	4.0	9.0	13.0	10.0	1000		900		0.9	600	142	PHE 427KA5150J
0.018	4.5	10.5	13.0	10.0	1000		800		0.9	600	122	PHE 427KA5180J
0.022	5.0	11.0	13.0	10.0	1000		700		1.0	600	116	PHE 427KA5220J
0.027	5.0	11.0	13.0	10.0	1000		700		1.0	600	116	PHE 427KA5270J
Lead spacing 15 mm												
0.033	5.5	10.5	18.0	15.0	1000		600		1.5	1000	99	PHE 427KB5330J
0.039	5.5	10.5	18.0	15.0	1000		600		1.5	1000	99	PHE 427KB5390J
0.047	5.5	12.5	18.0	15.0	500		600		1.7	1000	99	PHE 427KB5470J
0.056	6.5	12.5	18.0	15.0	500		500		2.0	1000	86	PHE 427KB5560J
0.068	6.5	12.5	18.0	15.0	500		500		2.0	1000	83	PHE 427KB5680J
0.082	7.5	14.5	18.0	15.0	500		400		2.7	1000	74	PHE 427KB5820J
0.10	8.0	15.0	18.0	15.0	500		400		3.0	1000	71	PHE 427KB6100J
0.12	8.5	16.0	18.0	15.0	500		400		3.4	1000	67	PHE 427KB6120J
Lead spacing 22.5 mm												
0.12	6.5	14.5	26.0	22.5		440			3.2	600	58	PHE 427KD6120J
0.15	7.0	16.5	26.0	22.5		407			3.9	600	52	PHE 427KD6150J
0.18	8.0	16.0	26.0	22.5		352			4.3	600	53	PHE 427KD6180J
0.22	9.0	18.5	26.0	22.5		308			5.6	600	48	PHE 427KD6220J
0.27	10.5	19.0	26.0	22.5		264			6.7	600	45	PHE 427KD6270J
0.33	11.0	21.5	26.0	22.5		253			8.0	600	42	PHE 427KD6330J
0.39	11.0	21.5	26.0	22.5		253			8.0	600	40	PHE 427KD6390J
Lead spacing 27.5 mm												
0.33	10.5	20.5	31.5	27.5		216			8.8	500	37	PHE 427KF6330J
0.39	10.5	20.5	31.5	27.5		216			8.8	500	37	PHE 427KF6390J
0.47	10.5	20.5	31.5	27.5		216			8.8	500	37	PHE 427KF6470J
0.56	11.5	22.5	31.5	27.5		198			10.6	500	34	PHE 427KF6560J
0.68	14.5	24.5	31.5	27.5		153			14.5	500	32	PHE 427KF6680J
0.82	14.5	24.5	31.5	27.5		153			19.7	500	28	PHE 427KF6820J
1.0	17.5	28.0	31.5	27.5		126			19.7	500	27	PHE 427KF7100J
Lead spacing 37.5 mm												
1.0	13.0	24.0	41.0	37.5		140			16.6	300	27	PHE 427KR7100J
1.2	15.0	26.0	41.0	37.5		119			20.8	300	25	PHE 427KR7120J
1.5	16.5	32.0	41.0	37.5		105			28.1	300	22	PHE 427KR7150J
1.8	16.5	32.0	41.0	37.5		105			28.1	300	21	PHE 427KR7180J
2.2	19.0	36.0	41.0	37.5		91			36.5	300	19	PHE 427KR7220J
630 VDC/300 VAC												
Lead spacing 7.5 mm												
0.00068	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE 427MK3680J
0.00082	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE 427MK3820J
0.0010	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE 427MK4100J
0.0012	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE 427MK4120J
0.0015	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE 427MK4150J
0.0018	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE 427MK4180J
0.0022	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE 427MK4220J

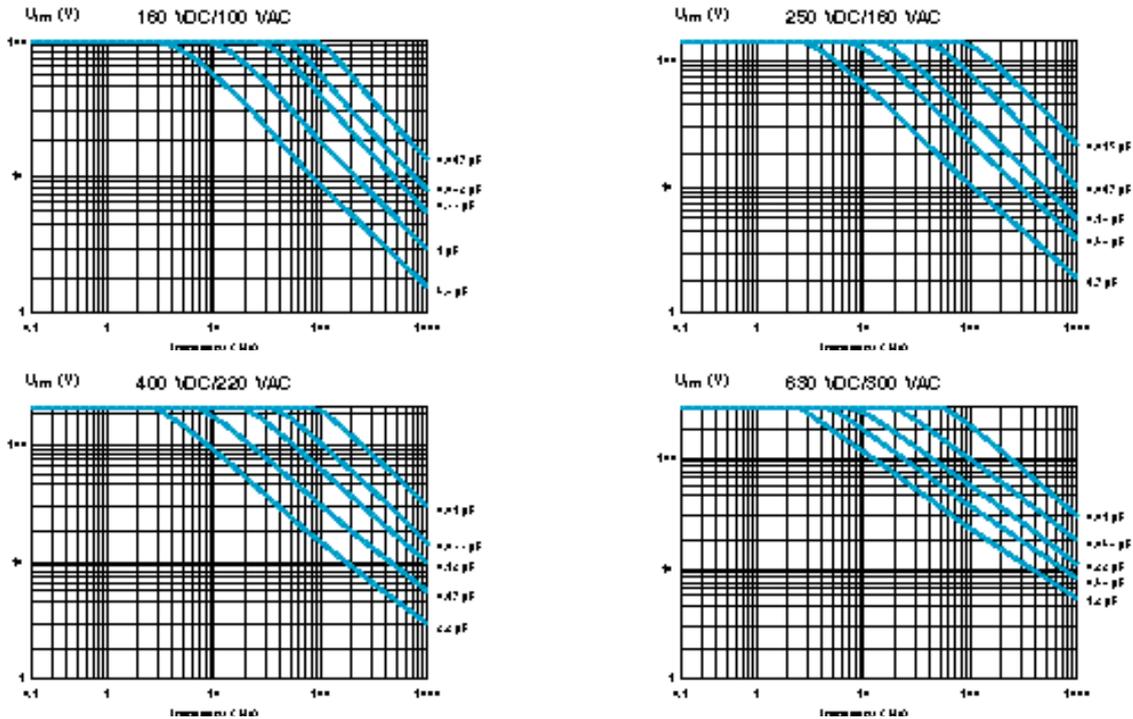
Article table PHE 427

Capacitance μF	Max dimensions in mm				Quantity per package			Weight		Max dU/dt V/μs	R _{thha} °C/W 85 °C 0.2 m/s	Article code 1st block
	B	H	L	p	Bulk	Tray	Reel	Ammo	g			
630 VDC/300 VAC												
Lead spacing 7.5 mm												
0.0027	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE 427MK4270J
0.0033	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE 427MK4330J
0.0039	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE 427MK4390J
0.0047	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE 427MK4470J
0.0056	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE 427MK4560J
0.0068	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1400	160	PHE 427MK4680J
0.0082	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1400	160	PHE 427MK4820J
0.010	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1400	160	PHE 427MK5100J
0.012	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1400	160	PHE 427MK5120J
0.015	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1400	160	PHE 427MK5150J
Lead spacing 10 mm												
0.0015	4.0	9.0	13.0	10.0	1000		900		0.6	800	142	PHE 427MA4150J
0.0018	4.0	9.0	13.0	10.0	1000		900		0.6	800	142	PHE 427MA4180J
0.0022	4.0	9.0	13.0	10.0	1000		900		0.6	800	139	PHE 427MA4220J
0.0027	4.0	9.0	13.0	10.0	1000		900		0.6	800	139	PHE 427MA4270J
0.0033	4.0	9.0	13.0	10.0	1000		900		0.6	800	121	PHE 427MA4330J
0.0039	4.0	9.0	13.0	10.0	1000		900		0.6	800	116	PHE 427MA4390J
0.0047	4.0	9.0	13.0	10.0	1000		900		0.6	800	100	PHE 427MA4470J
0.0056	4.0	9.0	13.0	10.0	1000		900		0.6	800	100	PHE 427MA4560J
0.0068	4.0	9.0	13.0	10.0	1000		900		0.6	800	98	PHE 427MA4680J
0.0082	4.5	10.5	13.0	10.0	1000		800		0.9	800	86	PHE 427MA4820J
0.010	4.5	10.5	13.0	10.0	1000		800		0.9	800	142	PHE 427MA5100J
0.012	5.0	11.0	13.0	10.0	1000		700		1.0	800	142	PHE 427MA5120J
0.015	5.0	11.0	13.0	10.0	1000		700		1.0	800	142	PHE 427MA5150J
Lead spacing 15 mm												
0.010	5.5	10.5	18.0	15.0	1000		600		1.5	1000	99	PHE 427MB5100J
0.012	5.5	10.5	18.0	15.0	1000		600		1.5	1000	99	PHE 427MB5120J
0.015	5.5	10.5	18.0	15.0	1000		600		1.5	1000	98	PHE 427MB5150J
0.018	5.5	10.5	18.0	15.0	1000		600		1.5	1000	98	PHE 427MB5180J
0.022	5.5	10.5	18.0	15.0	1000		600		1.5	1000	98	PHE 427MB5220J
0.027	5.5	12.5	18.0	15.0	500		600		1.7	1000	85	PHE 427MB5270J
0.033	5.5	12.5	18.0	15.0	500		600		1.7	1000	84	PHE 427MB5330J
0.039	7.5	14.5	18.0	15.0	500		400		2.7	1000	74	PHE 427MB5390J
0.047	7.5	14.5	18.0	15.0	500		400		2.7	1000	74	PHE 427MB5470J
0.056	7.5	14.5	18.0	15.0	500		400		2.7	1000	73	PHE 427MB5560J
0.068	8.5	16.0	18.0	15.0	500		400		3.4	1000	67	PHE 427MB5680J
Lead spacing 22.5 mm												
0.047	6.5	14.5	26.0	22.5		440			3.2	600	58	PHE 427MD5470J
0.056	6.5	14.5	26.0	22.5		440			3.2	600	58	PHE 427MD5560J
0.068	6.5	14.5	26.0	22.5		440			3.2	600	58	PHE 427MD5680J
0.082	7.0	16.5	26.0	22.5		407			3.9	600	53	PHE 427MD5820J
0.10	7.0	16.5	26.0	22.5		407			3.9	600	52	PHE 427MD6100J
0.12	9.0	18.5	26.0	22.5		308			5.6	600	48	PHE 427MD6120J
0.15	9.0	18.5	26.0	22.5		308			5.6	600	46	PHE 427MD6150J
0.18	10.5	19.0	26.0	22.5		264			6.7	600	45	PHE 427MD6180J
0.22	11.0	21.5	26.0	22.5		253			8.0	600	41	PHE 427MD6220J
Lead spacing 27.5 mm												
0.15	10.5	20.5	31.5	27.5		216			8.0	300	37	PHE 427MF6150J
0.18	10.5	20.5	31.5	27.5		216			8.0	300	37	PHE 427MF6180J
0.22	10.5	20.5	31.5	27.5		216			8.0	300	37	PHE 427MF6220J
0.27	11.5	22.5	31.5	27.5		198			10.6	300	35	PHE 427MF6270J
0.33	11.5	22.5	31.5	27.5		198			10.6	300	34	PHE 427MF6330J
0.39	14.5	24.5	31.5	27.5		153			14.5	300	32	PHE 427MF6390J
0.47	14.5	24.5	31.5	27.5		153			14.5	300	31	PHE 427MF6470J
0.56	17.5	28.0	31.5	27.5		126			19.7	300	28	PHE 427MF6560J
0.68	17.5	28.0	31.5	27.5		126			19.7	300	27	PHE 427MF6680J

Article table PHE 427

Capacitance μF	Max dimensions in mm				Quantity per package			Weight		Max dU/dt $\text{V}/\mu\text{s}$	R_{thha} °C/W 85 °C 0.2 m/s	Article code 1st block
	B	H	L	p	Bulk	Tray	Reel	Ammo	g			
630 VDC/300 VAC												
Lead spacing 37.5 mm												
0.47	13.0	24.0	41.0	37.5		140			16.6	250	27	PHE 427MR6470J
0.56	13.0	24.0	41.0	37.5		140			16.6	250	27	PHE 427MR6560J
0.68	15.0	26.0	41.0	37.5		119			20.8	250	25	PHE 427MR6680J
0.82	16.5	32.0	41.0	37.5		105			28.1	250	22	PHE 427MR6820J
1.0	16.5	32.0	41.0	37.5		105			28.1	250	22	PHE 427MR7100J
1.2	19.0	36.0	41.0	37.5		91			36.5	250	19	PHE 427MR7120J
1000 VDC/375 VAC												
Lead spacing 7.5 mm												
0.00068	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE 427PK3680J
0.00082	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE 427PK3820J
0.0010	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE 427PK4100J
0.0012	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE 427PK4120J
0.0015	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE 427PK4150J
0.0018	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE 427PK4180J
0.0022	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE 427PK4220J
0.0027	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	2000	160	PHE 427PK4270J
0.0033	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	2000	160	PHE 427PK4330J
0.0039	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	2000	160	PHE 427PK4390J
0.0047	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	2000	160	PHE 427PK4470J
0.0056	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	2000	160	PHE 427PK4560J
0.0068	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	2000	160	PHE 427PK4680J
0.0082	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	2000	160	PHE 427PK4820J

Derating of U_{rms} vs frequency, +85°C ambient temp. and 10°C internal heating, typical values



More simulation possibilities in PCCAD.
See page 138

Ordering information

Article code																		
1st block													2nd block					
P	H	E	4	2	7	P	B	5	1	5	0	J	R	1	7	T	0	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	

1st block See article table
2nd block If not standard lead length, add R06 to R50 in pos. 14–16.
 For taped add T0 in pos. 17–18. For packing on trays (6 mm lead length), add L2 in pos. 17–18.

Packing

The box dimensions for bulk packaging are 230 × 155 × 72 mm. Quantity/package as in article table, based on standard lead length. Reels with taped capacitors are packed 10 in a box with the dimensions 600 × 400 × 400 mm. Quantity per reel as in article table.

Marking

- RIFA
- Article code (pos. 4–6)
- Rated capacitance acc. to IEC 62
- Rated voltage
- Capacitance tolerance code
- Manufacturing code (year, month)