

PHE427 **Obsolete.** See PHE450

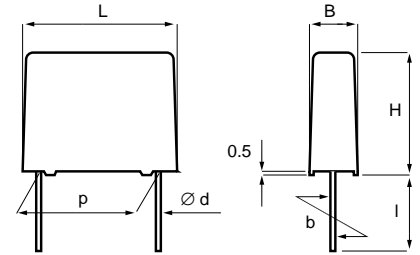
- **LAST ORDER DATE 31 MARCH, 2003.**
- **Double metallized film pulse capacitor, polypropylene dielectric**

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.



TECHNICAL 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 $\pm 5\%$ standard. Other tolerances on request

Category temperature range -55°C to $+105^\circ\text{C}$

Rated temperature $+85^\circ\text{C}$

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

Climatic category 55/105/56

Insulation resistance Measured at 23°C , 100 VDC 60s for $U_R < 500\text{ VDC}$ and at 500 VDC for $U_R \geq 500\text{ VDC}$
 Between terminals:
 $C \leq 0.33 \mu\text{F}$: 100 000 $\text{M}\Omega$
 $C > 0.33 \mu\text{F}$: 30 000 s
 Between terminals and case:
 100 000 $\text{M}\Omega$

Dissipation factor $\tan\delta$ Maximum values at 23°C

	$C \leq 0.1 \mu\text{F}$	$0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$	$C > 1.0 \mu\text{F}$
1 kHz	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.

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} .

p	d	std l	max l	b
7.5 ± 0.4	0.6	4^{+1}	30	± 0.4
10.0 ± 0.4	0.6	4^{+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

ENVIRONMENTAL TEST DATA

Vibration According to IEC 60068-2-6 test Fc. 10–500 Hz for lead space $\leq 22.5\text{ mm}$, 10–55 Hz for lead space $\geq 27.5\text{ mm}$. 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 60384-1.

Bump According to IEC 60068-2-29 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 60068-2-3 test Ca, severity 56 days.

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight g	Max dU/dt V/ μs	Rthha °C/W 85 °C 0.2 m/s	Article code 1st block
	B	H	L	p	Bulk	Tray	Reel	Ammo				
160 VDC/100 VAC												
LEAD SPACING 10 MM												
0.047	5.0	11.0	13.0	10.0	800		700		1.0	400	116	PHE427FA5470J
0.056	5.0	11.0	13.0	10.0	800		700		1.0	400	116	PHE427FA5560J
0.068	5.0	11.0	13.0	10.0	800		700		1.0	400	115	PHE427FA5680J
LEAD SPACING 15 MM												
0.082	5.5	10.5	18.0	15.0	1000		600		1.5	200	100	PHE427FB5820J
0.10	5.5	10.5	18.0	15.0	1000		600		1.5	200	98	PHE427FB6100J
0.12	5.5	12.5	18.0	15.0	1000		600		1.7	200	85	PHE427FB6120J
0.15	6.5	12.5	18.0	15.0	1000		500		2.0	200	82	PHE427FB6150J
0.18	7.5	14.5	18.0	15.0	800		400		2.7	200	74	PHE427FB6180J
0.22	7.5	14.5	18.0	15.0	800		400		2.7	200	72	PHE427FB6220J
0.27	8.5	16.0	18.0	15.0	600		400		3.4	200	65	PHE427FB6270J
0.33	8.5	16.0	18.0	15.0	600		400		3.4	200	64	PHE427FB6330J
LEAD SPACING 22.5 MM												
0.22	6.5	14.5	26.0	22.5		234			3.2	100	58	PHE427FD6220J
0.27	7.0	16.5	26.0	22.5		216			3.9	100	53	PHE427FD6270J
0.33	7.0	16.5	26.0	22.5		216			3.9	100	52	PHE427FD6330J
0.39	8.0	16.0	26.0	22.5		186			4.3	100	52	PHE427FD6390J
0.47	8.0	16.0	26.0	22.5		186			4.3	100	52	PHE427FD6470J
0.56	9.0	18.5	26.0	22.5		168			5.6	100	46	PHE427FD6560J
0.68	9.0	18.5	26.0	22.5		168			5.6	100	46	PHE427FD6680J
0.82	11.0	21.5	26.0	22.5		253			8.0	100	40	PHE427FD6820J
1.0	11.0	21.5	26.0	22.5		253			8.0	100	39	PHE427FD7100J
LEAD SPACING 27.5 MM												
1.0	10.5	20.5	31.5	27.5		216			8.8	60	37	PHE427FF7100J
1.2	11.5	22.5	31.5	27.5		198			10.6	60	34	PHE427FF7120J
1.5	11.5	22.5	31.5	27.5		198			10.6	60	34	PHE427FF7150J
1.8	17.5	28.0	31.5	27.5		126			19.7	60	28	PHE427FF7180J
2.2	17.5	28.0	31.5	27.5		126			19.7	60	27	PHE427FF7220J
LEAD SPACING 37.5 MM												
1.8	13.0	24.0	41.0	37.5		140			16.6	50	27	PHE427FR7180J
2.2	15.0	26.0	41.0	37.5		119			20.8	50	26	PHE427FR7220J
2.7	15.0	26.0	41.0	37.5		119			20.8	50	25	PHE427FR7270J
3.3	15.0	26.0	41.0	37.5		119			20.8	50	25	PHE427FR7330J
3.9	16.5	32.0	41.0	37.5		105			28.1	50	21	PHE427FR7390J
4.7	16.5	32.0	41.0	37.5		105			28.1	50	20	PHE427FR7470J
5.6	19.0	36.0	41.0	37.5		91			36.5	50	18	PHE427FR7560J
6.8	19.0	36.0	41.0	37.5		91			36.5	50	18	PHE427FR7680J
250 VDC/160 VAC												
LEAD SPACING 7.5 MM												
0.00068	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK3680J
0.00082	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK3820J
0.0010	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK4100J
0.0012	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK4120J
0.0015	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK4150J
0.0018	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK4180J
0.0022	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK4220J
0.0027	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK4270J
0.0033	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK4330J
0.0039	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK4390J
0.0047	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK4470J
0.0056	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK4560J
0.0068	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK4680J
0.0082	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK4820J
0.010	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK5100J

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight g	Max dU/dt V/ μs	Rthha °C/W 85 °C 0.2 m/s	Article code 1st block
	B	H	L	p	Bulk	Tray	Reel	Ammo				
250 VDC/160 VAC												
LEAD SPACING 7.5 MM												
0.012	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK5120J
0.015	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK5150J
0.018	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK5180J
0.022	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	800	160	PHE427HK5220J
0.027	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	800	160	PHE427HK5270J
0.033	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	800	160	PHE427HK5330J
0.039	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	800	160	PHE427HK5390J
0.047	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	800	160	PHE427HK5470J
0.056	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	800	160	PHE427HK5560J
0.068	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	800	160	PHE427HK5680J
LEAD SPACING 10 MM												
0.015	4.0	9.0	13.0	10.0	1000		900		0.6	400	142	PHE427HA5150J
0.018	4.0	9.0	13.0	10.0	1000		900		0.6	400	142	PHE427HA5180J
0.022	4.0	9.0	13.0	10.0	1000		900		0.6	400	142	PHE427HA5220J
0.027	4.0	9.0	13.0	10.0	1000		900		0.6	400	139	PHE427HA5270J
0.033	4.5	10.5	13.0	10.0	1000		800		0.9	400	121	PHE427HA5330J
0.039	5.0	11.0	13.0	10.0	800		700		1.0	400	116	PHE427HA5390J
LEAD SPACING 15 MM												
0.047	5.5	10.5	18.0	15.0	1000		600		1.5	600	100	PHE427HB5470J
0.056	5.5	10.5	18.0	15.0	1000		600		1.5	600	100	PHE427HB5560J
0.068	5.5	10.5	18.0	15.0	1000		600		1.5	600	98	PHE427HB5680J
0.082	5.5	12.5	18.0	15.0	1000		600		1.7	600	86	PHE427HB5820J
0.10	6.5	12.5	18.0	15.0	1000		500		2.0	600	83	PHE427HB6100J
0.12	7.5	14.5	18.0	15.0	800		400		2.7	600	74	PHE427HB6120J
0.15	7.5	14.5	18.0	15.0	800		400		2.7	600	73	PHE427HB6150J
0.18	8.5	16.0	18.0	15.0	600		400		3.4	600	67	PHE427HB6180J
0.22	8.5	16.0	18.0	15.0	600		400		3.4	600	65	PHE427HB6220J
LEAD SPACING 22.5 MM												
0.18	6.5	14.5	26.0	22.5	234				3.2	400	58	PHE427HD6180J
0.22	7.0	16.5	26.0	22.5	216				3.9	400	53	PHE427HD6220J
0.27	7.0	16.5	26.0	22.5	216				3.9	400	52	PHE427HD6270J
0.33	9.0	18.5	26.0	22.5	168				5.6	400	48	PHE427HD6330J
0.39	9.0	18.5	26.0	22.5	168				5.6	400	46	PHE427HD6390J
0.47	9.0	18.5	26.0	22.5	168				5.6	400	46	PHE427HD6470J
0.56	11.0	21.5	26.0	22.5	253				8.0	400	41	PHE427HD6560J
0.68	11.0	21.5	26.0	22.5	253				8.0	400	40	PHE427HD6680J
LEAD SPACING 27.5 MM												
0.56	10.5	20.5	31.5	27.5	216				8.0	300	38	PHE427HF6560J
0.68	10.5	20.5	31.5	27.5	216				8.0	300	38	PHE427HF6680J
0.82	11.5	22.5	31.5	27.5	198				10.6	300	34	PHE427HF6820J
1.0	11.5	22.5	31.5	27.5	198				10.6	300	34	PHE427HF7100J
1.2	14.5	24.5	31.5	27.5	153				14.5	300	31	PHE427HF7120J
1.5	14.5	24.5	31.5	27.5	153				14.5	300	30	PHE427HF7150J
1.8	17.5	28.0	31.5	27.5	126				19.7	300	27	PHE427HF7180J
2.2	17.5	28.0	31.5	27.5	126				19.7	300	26	PHE427HF7220J
LEAD SPACING 37.5 MM												
1.5	13.0	24.0	41.0	37.5	140				16.6	200	27	PHE427HR7150J
1.8	15.0	26.0	41.0	37.5	119				20.8	200	25	PHE427HR7180J
2.2	16.5	32.0	41.0	37.5	105				28.1	200	22	PHE427HR7220J
2.7	16.5	32.0	41.0	37.5	105				28.1	200	22	PHE427HR7270J
3.3	16.5	32.0	41.0	37.5	105				28.1	200	20	PHE427HR7330J
3.9	19.0	36.0	41.0	37.5	91				36.5	200	18	PHE427HR7390J
4.7	19.0	36.0	41.0	37.5	91				36.5	200	18	PHE427HR7470J

ARTICLE TABLE

Capacitance µF	Max dimensions in mm				Quantity per package				Weight g	Max dU/dt V/µs	Rthha °C/W 85 °C 0.2 m/s	Article code 1st block
	B	H	L	p	Bulk	Tray	Reel	Ammo				
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	PHE427KK3680J
0.00082	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK3820J
0.0010	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK4100J
0.0012	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK4120J
0.0015	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK4150J
0.0018	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK4180J
0.0022	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK4220J
0.0027	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK4270J
0.0033	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK4330J
0.0039	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK4390J
0.0047	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK4470J
0.0056	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK4560J
0.0068	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK4680J
0.0082	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK4820J
0.010	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK5100J
0.012	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1200	160	PHE427KK5120J
0.015	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1200	160	PHE427KK5150J
0.018	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1200	160	PHE427KK5180J
0.022	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1200	160	PHE427KK5220J
0.027	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1200	160	PHE427KK5270J
0.033	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1200	160	PHE427KK5330J
0.039	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1200	160	PHE427KK5390J
0.047	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1200	160	PHE427KK5470J
LEAD SPACING 10 MM												
0.0082	4.0	8.0	13.0	10.0	1000		900		0.6	600	142	PHE427KA4820J
0.010	4.0	9.0	13.0	10.0	1000		900		0.6	600	142	PHE427KA5100J
0.012	4.0	9.0	13.0	10.0	1000		900		0.6	600	142	PHE427KA5120J
0.015	4.0	9.0	13.0	10.0	1000		900		0.9	600	142	PHE427KA5150J
0.018	4.5	10.5	13.0	10.0	1000		800		0.9	600	122	PHE427KA5180J
0.022	5.0	11.0	13.0	10.0	800		700		1.0	600	116	PHE427KA5220J
0.027	5.0	11.0	13.0	10.0	800		700		1.0	600	116	PHE427KA5270J
LEAD SPACING 15 MM												
0.033	5.5	10.5	18.0	15.0	1000		600		1.5	1000	99	PHE427KB5330J
0.039	5.5	10.5	18.0	15.0	1000		600		1.5	1000	99	PHE427KB5390J
0.047	5.5	12.5	18.0	15.0	1000		600		1.7	1000	99	PHE427KB5470J
0.056	6.5	12.5	18.0	15.0	1000		500		2.0	1000	86	PHE427KB5560J
0.068	6.5	12.5	18.0	15.0	1000		500		2.0	1000	83	PHE427KB5680J
0.082	7.5	14.5	18.0	15.0	800		400		2.7	1000	74	PHE427KB5820J
0.10	8.0	15.0	18.0	15.0	600		400		3.0	1000	71	PHE427KB6100J
0.12	8.5	16.0	18.0	15.0	600		400		3.4	1000	67	PHE427KB6120J
LEAD SPACING 22.5 MM												
0.12	6.5	14.5	26.0	22.5		234			3.2	600	58	PHE427KD6120J
0.15	7.0	16.5	26.0	22.5		216			3.9	600	52	PHE427KD6150J
0.18	8.0	16.0	26.0	22.5		186			4.3	600	53	PHE427KD6180J
0.22	9.0	18.5	26.0	22.5		168			5.6	600	48	PHE427KD6220J
0.27	10.5	19.0	26.0	22.5		264			6.7	600	45	PHE427KD6270J
0.33	11.0	21.5	26.0	22.5		253			8.0	600	42	PHE427KD6330J
0.39	11.0	21.5	26.0	22.5		253			8.0	600	40	PHE427KD6390J
LEAD SPACING 27.5 MM												
0.33	10.5	20.5	31.5	27.5		216			8.8	500	37	PHE427KF6330J
0.39	10.5	20.5	31.5	27.5		216			8.8	500	37	PHE427KF6390J
0.47	10.5	20.5	31.5	27.5		216			8.8	500	37	PHE427KF6470J
0.56	11.5	22.5	31.5	27.5		198			10.6	500	34	PHE427KF6560J
0.68	14.5	24.5	31.5	27.5		153			14.5	500	32	PHE427KF6680J
0.82	14.5	24.5	31.5	27.5		153			19.7	500	28	PHE427KF6820J
1.0	17.5	28.0	31.5	27.5		126			19.7	500	27	PHE427KF7100J

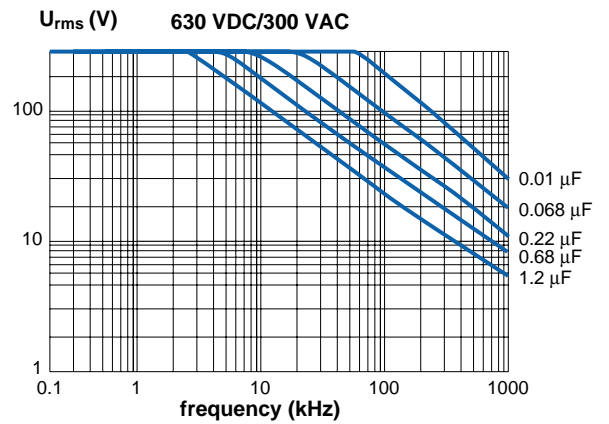
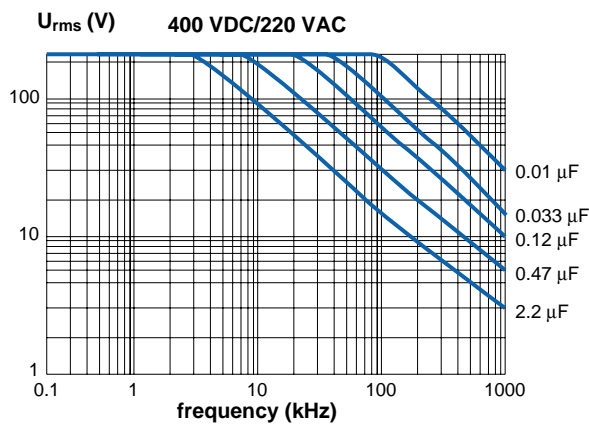
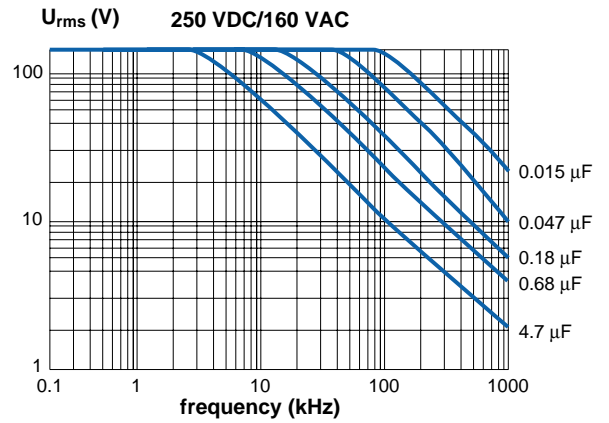
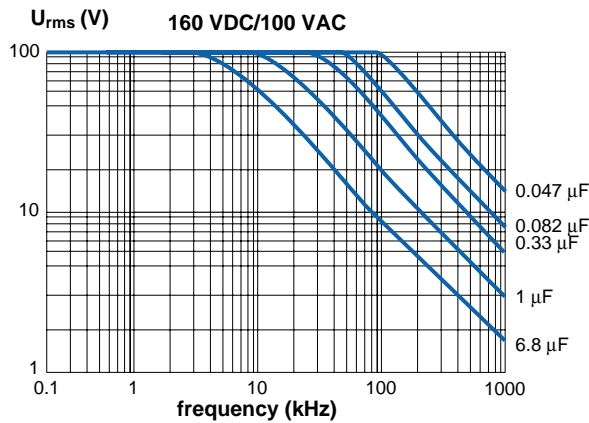
ARTICLE TABLE

Capacitance µF	Max dimensions in mm				Quantity per package				Weight g	Max dU/dt V/µs	Rthha °C/W 85 °C 0.2 m/s	Article code 1st block
	B	H	L	p	Bulk	Tray	Reel	Ammo				
400 VDC/220 VAC												
LEAD SPACING 37.5 MM												
1.0	13.0	24.0	41.0	37.5			140		16.6	300	27	PHE427KR7100J
1.2	15.0	26.0	41.0	37.5			119		20.8	300	25	PHE427KR7120J
1.5	16.5	32.0	41.0	37.5			105		28.1	300	22	PHE427KR7150J
1.8	16.5	32.0	41.0	37.5			105		28.1	300	21	PHE427KR7180J
2.2	19.0	36.0	41.0	37.5			91		36.5	300	19	PHE427KR7220J
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	PHE427MK3680J
0.00082	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE427MK3820J
0.0010	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE427MK4100J
0.0012	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE427MK4120J
0.0015	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE427MK4150J
0.0018	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE427MK4180J
0.0022	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE427MK4220J
0.0027	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE427MK4270J
0.0033	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE427MK4330J
0.0039	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE427MK4390J
0.0047	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE427MK4470J
0.0056	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	1400	160	PHE427MK4560J
0.0068	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1400	160	PHE427MK4680J
0.0082	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1400	160	PHE427MK4820J
0.010	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	1400	160	PHE427MK5100J
0.012	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1400	160	PHE427MK5120J
0.015	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1400	160	PHE427MK5150J
LEAD SPACING 10 MM												
0.0015	4.0	9.0	13.0	10.0	1000		900		0.6	800	142	PHE427MA4150J
0.0018	4.0	9.0	13.0	10.0	1000		900		0.6	800	142	PHE427MA4180J
0.0022	4.0	9.0	13.0	10.0	1000		900		0.6	800	139	PHE427MA4220J
0.0027	4.0	9.0	13.0	10.0	1000		900		0.6	800	139	PHE427MA4270J
0.0033	4.0	9.0	13.0	10.0	1000		900		0.6	800	121	PHE427MA4330J
0.0039	4.0	9.0	13.0	10.0	1000		900		0.6	800	116	PHE427MA4390J
0.0047	4.0	9.0	13.0	10.0	1000		900		0.6	800	100	PHE427MA4470J
0.0056	4.0	9.0	13.0	10.0	1000		900		0.6	800	100	PHE427MA4560J
0.0068	4.0	9.0	13.0	10.0	1000		900		0.6	800	98	PHE427MA4680J
0.0082	4.5	10.5	13.0	10.0	1000		800		0.9	800	86	PHE427MA4820J
0.010	4.5	10.5	13.0	10.0	1000		800		0.9	800	142	PHE427MA5100J
0.012	5.0	11.0	13.0	10.0	800		700		1.0	800	142	PHE427MA5120J
0.015	5.0	11.0	13.0	10.0	800		700		1.0	800	142	PHE427MA5150J
LEAD SPACING 15 MM												
0.010	5.5	10.5	18.0	15.0	1000		600		1.5	1000	99	PHE427MB5100J
0.012	5.5	10.5	18.0	15.0	1000		600		1.5	1000	99	PHE427MB5120J
0.015	5.5	10.5	18.0	15.0	1000		600		1.5	1000	98	PHE427MB5150J
0.018	5.5	10.5	18.0	15.0	1000		600		1.5	1000	98	PHE427MB5180J
0.022	5.5	10.5	18.0	15.0	1000		600		1.5	1000	98	PHE427MB5220J
0.027	5.5	12.5	18.0	15.0	1000		600		1.7	1000	85	PHE427MB5270J
0.033	5.5	12.5	18.0	15.0	1000		600		1.7	1000	84	PHE427MB5330J
0.039	7.5	14.5	18.0	15.0	800		400		2.7	1000	74	PHE427MB5390J
0.047	7.5	14.5	18.0	15.0	800		400		2.7	1000	74	PHE427MB5470J
0.056	7.5	14.5	18.0	15.0	800		400		2.7	1000	73	PHE427MB5560J
0.068	8.5	16.0	18.0	15.0	600		400		3.4	1000	67	PHE427MB5680J

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight g	Max dU/dt V/ μs	Rthha °C/W 85 °C 0.2 m/s	Article code 1st block
	B	H	L	p	Bulk	Tray	Reel	Ammo				
630 VDC/300 VAC												
LEAD SPACING 22.5 MM												
0.047	6.5	14.5	26.0	22.5			234		3.2	600	58	PHE427MD5470J
0.056	6.5	14.5	26.0	22.5			234		3.2	600	58	PHE427MD5560J
0.068	6.5	14.5	26.0	22.5			234		3.2	600	58	PHE427MD5680J
0.082	7.0	16.5	26.0	22.5			216		3.9	600	53	PHE427MD5820J
0.10	7.0	16.5	26.0	22.5			216		3.9	600	52	PHE427MD6100J
0.12	9.0	18.5	26.0	22.5			168		5.6	600	48	PHE427MD6120J
0.15	9.0	18.5	26.0	22.5			168		5.6	600	46	PHE427MD6150J
0.18	10.5	19.0	26.0	22.5			264		6.7	600	45	PHE427MD6180J
0.22	11.0	21.5	26.0	22.5			253		8.0	600	41	PHE427MD6220J
LEAD SPACING 27.5 MM												
0.15	10.5	20.5	31.5	27.5			216		8.0	300	37	PHE427MF6150J
0.18	10.5	20.5	31.5	27.5			216		8.0	300	37	PHE427MF6180J
0.22	10.5	20.5	31.5	27.5			216		8.0	300	37	PHE427MF6220J
0.27	11.5	22.5	31.5	27.5			198		10.6	300	35	PHE427MF6270J
0.33	11.5	22.5	31.5	27.5			198		10.6	300	34	PHE427MF6330J
0.39	14.5	24.5	31.5	27.5			153		14.5	300	32	PHE427MF6390J
0.47	14.5	24.5	31.5	27.5			153		14.5	300	31	PHE427MF6470J
0.56	17.5	28.0	31.5	27.5			126		19.7	300	28	PHE427MF6560J
0.68	17.5	28.0	31.5	27.5			126		19.7	300	27	PHE427MF6680J
LEAD SPACING 37.5 MM												
0.47	13.0	24.0	41.0	37.5			140		16.6	250	27	PHE427MR6470J
0.56	13.0	24.0	41.0	37.5			140		16.6	250	27	PHE427MR6560J
0.68	15.0	26.0	41.0	37.5			119		20.8	250	25	PHE427MR6680J
0.82	16.5	32.0	41.0	37.5			105		28.1	250	22	PHE427MR6820J
1.0	16.5	32.0	41.0	37.5			105		28.1	250	22	PHE427MR7100J
1.2	19.0	36.0	41.0	37.5			91		36.5	250	19	PHE427MR7120J
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	PHE427PK3680J
0.00082	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE427PK3820J
0.0010	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE427PK4100J
0.0012	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE427PK4120J
0.0015	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE427PK4150J
0.0018	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE427PK4180J
0.0022	4.0	8.0	10.5	7.5	1000		1700	1900	0.5	2000	160	PHE427PK4220J
0.0027	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	2000	160	PHE427PK4270J
0.0033	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	2000	160	PHE427PK4330J
0.0039	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	2000	160	PHE427PK4390J
0.0047	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	2000	160	PHE427PK4470J
0.0056	5.0	11.0	10.5	7.5	1000		1300	1500	0.8	2000	160	PHE427PK4560J
0.0068	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	2000	160	PHE427PK4680J
0.0082	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	2000	160	PHE427PK4820J

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



More simulation possibilities in PCCADsoftware package. See page 184.

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 R30 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.

MARKING

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

PACKING

The box dimensions for bulk packaging are 245 x 145 x 80 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 370 x 370 x 560 mm. Quantity per reel as in article table. The standard quantity/reel is for 360 mm reel. If 500 mm reel is required, it must be specified when ordering and the quantity is 2 x the given quantity.