

PHE450



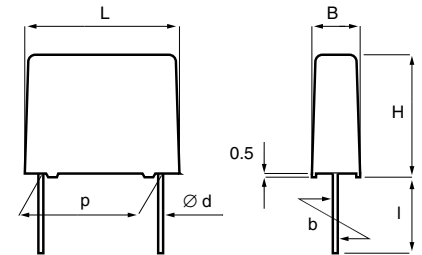
- Double metallized film pulse capacitor, polypropylene dielectric
- According to IEC 60384-17 Grade 1.1
- Small sizes
- Replaces PHE427, PHE428 and includes a new 3-section series

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	250	400	630	1000	1600	2000	2500
Rated voltage U_R, VAC	180	250	300/400	375/600	650	700	900
Capacitance range	680pF– 6.8μF	680pF– 4.7μF	680pF– 2.7μF	680pF– 1.2μF	2.7nF– 0.82μF	1.0nF– 0.47μF	1nF– 39nF

Capacitance values In accordance with IEC E12 series.

Capacitance tolerance ±5% standard. Other tolerances on request

Category temperature range –55° C to +105° C

Rated temperature +85° C

Voltage derating The rated voltage is decreased with 1.3% / ° C between +85° C and +105° C

Climatic category 55/105/56

Test voltage between terminals The 100 % factory test is carried out at 1.6 x U_R VDC

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

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

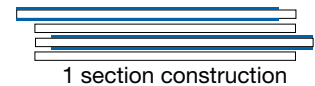
	$C \leq 0.1 \mu\text{F}$	$0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$	$C > 1.0 \mu\text{F}$
1 kHz	0.03 %	0.03 %	0.03 %
10 kHz	0.04 %	0.06 %	–
100 kHz	0.15 %	–	–

Inductance Approximately 6 nH/cm for the total length of capacitor winding and the leads.

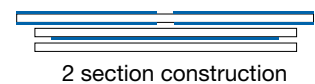
Pulse rise time The capacitors can withstand an unlimited number of pulses with a dU/dt according to the article table. For peak to peak voltages lower than the rated voltage ($U_{pp} < U_R$), the specified dU/dt can be multiplied by U_R/U_{pp} .

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

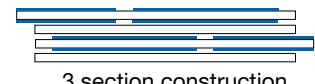
Three different winding constructions are used, depending on voltage and lead spacing. They are specified in the article table.



1 section construction



2 section construction



3 section construction

ENVIRONMENTAL TEST DATA

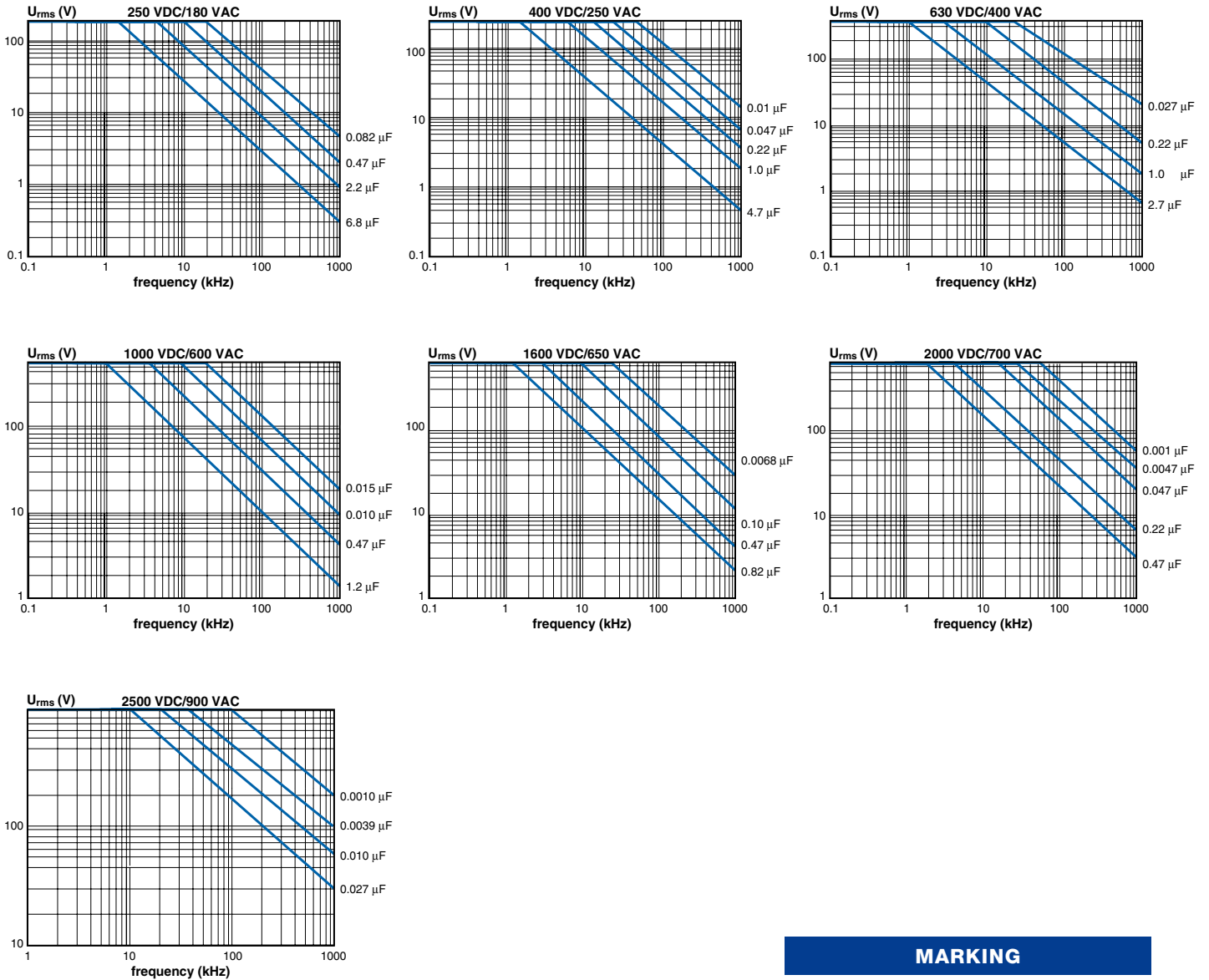
According to IEC 60384-17, Grade 1.1 and Quality tests and requirements for Pulse Capacitors in the Evox Rifa Film Capacitors catalogue.

DATA SHEET PHE450

Specifications subject to change without notice.

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



MARKING

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

ORDERING INFORMATION

Article code

1st block	2nd block
P H E 4 5 0 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.

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.

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 /180 VAC (1 section winding construction)												
LEAD SPACING 7.5 MM												
0.00068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK3680J
0.00082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK3820J
0.0010	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4100J
0.0012	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4120J
0.0015	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4150J
0.0018	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4180J
0.0022	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4220J
0.0027	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4270J
0.0033	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4330J
0.0039	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4390J
0.0047	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450HK4470J
0.0056	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450HK4560J
0.0068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450HK4680J
0.0082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450HK4820J
0.010	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1200	160	PHE450HK5100J
0.012	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1200	160	PHE450HK5120J
0.015	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	800	160	PHE450HK5150J
0.018	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	800	160	PHE450HK5180J
0.022	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	800	160	PHE450HK5220J
0.027	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	800	160	PHE450HK5270J
0.033	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	800	160	PHE450HK5330J
0.039	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	800	160	PHE450HK5390J
0.047	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	800	160	PHE450HK5470J
0.056	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	800	160	PHE450HK5560J
0.068	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	800	160	PHE450HK5680J
LEAD SPACING 10 MM												
0.0010	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4100J
0.0012	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4120J
0.0015	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4150J
0.0018	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4180J
0.0022	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4220J
0.0027	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4270J
0.0033	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4330J
0.0039	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4390J
0.0047	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4470J
0.0056	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4560J
0.0068	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4680J
0.0082	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450HA4820J
0.010	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450HA5100J
0.012	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450HA5120J
0.015	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450HA5150J
0.018	4.0	9.0	13.0	10.0	1000		900		0.6	1100	142	PHE450HA5180J
0.022	4.0	9.0	13.0	10.0	1000		900		0.6	1100	142	PHE450HA5220J
0.027	4.0	9.0	13.0	10.0	1000		900		0.6	1100	142	PHE450HA5270J
0.033	4.0	9.0	13.0	10.0	1000		900		0.6	700	142	PHE450HA5330J
0.039	4.0	9.0	13.0	10.0	1000		900		0.6	700	142	PHE450HA5390J
0.047	4.0	9.0	13.0	10.0	1000		900		0.6	700	142	PHE450HA5470J
0.056	4.5	10.5	13.0	10.0	1000		800		0.9	700	122	PHE450HA5560J
0.068	4.5	10.5	13.0	10.0	1000		800		0.9	700	122	PHE450HA5680J
0.082	5.0	11.0	13.0	10.0	800		700		1.0	700	116	PHE450HA5820J
0.100	6.0	12.0	13.0	10.0	600		500		1.3	700	105	PHE450HA6100J
0.120	6.0	12.0	13.0	10.0	600		500		1.3	700	105	PHE450HA6120J
LEAD SPACING 15 MM												
0.047	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450HB5470J
0.056	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450HB5560J
0.068	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450HB5680J
0.082	5.5	10.5	18.0	15.0	1000		600		1.5	600	101	PHE450HB5820J
0.10	5.5	10.5	18.0	15.0	1000		600		1.5	600	100	PHE450HB6100J

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight g	Max dU/dt $\text{V}/\mu\text{s}$	Rthha °C/W 85 °C 0.2 m/s	Article code 1st block
	B	H	L	p	Bulk	Tray	Reel	Ammo				
250 VDC / 180 VAC (1 section)												
LEAD SPACING 15 MM												
0.12	5.5	10.5	18.0	15.0	1000		600		1.5	600	99	PHE450HB6120J
0.15	5.5	12.5	18.0	15.0	1000		600		1.7	600	85	PHE450HB6150J
0.18	6.5	12.5	18.0	15.0	1000		500		2.0	600	83	PHE450HB6180J
0.22	7.5	14.5	18.0	15.0	800		400		2.7	600	74	PHE450HB6220J
0.27	7.5	14.5	18.0	15.0	800		400		2.7	600	73	PHE450HB6270J
0.33	8.0	15.0	18.0	15.0	600		400		3.0	600	67	PHE450HB6330J
0.39	8.5	16.0	18.0	15.0	600		400		3.4	600	65	PHE450HB6390J
0.47	9.5	17.5	18.0	15.0	500		350		4.2	600	60	PHE450HB6470J
LEAD SPACING 22.5 MM												
0.18	6.5	14.5	26.0	22.5		234			3.2	600	58	PHE450HD6180J
0.22	6.5	14.5	26.0	22.5		234			3.2	400	60	PHE450HD6220J
0.27	6.5	14.5	26.0	22.5		234			3.2	400	59	PHE450HD6270J
0.33	6.5	14.5	26.0	22.5		234			3.2	400	58	PHE450HD6330J
0.39	7.0	16.5	26.0	22.5		216			3.9	400	54	PHE450HD6390J
0.47	7.0	16.5	26.0	22.5		216			3.9	400	53	PHE450HD6470J
0.56	9.0	18.5	26.0	22.5		168			5.6	400	49	PHE450HD6560J
0.68	9.0	18.5	26.0	22.5		168			5.6	400	47	PHE450HD6680J
0.82	10.5	19.0	26.0	22.5		264			6.7	400	43	PHE450HD6820J
1	11.0	21.5	26.0	22.5		253			8.0	400	40	PHE450HD7100J
1.2	13.5	23.0	26.0	22.5		209			10.0	400	38	PHE450HD7120J
1.5	13.5	23.0	26.0	22.5		209			10.0	400	36	PHE450HD7150J
LEAD SPACING 27.5 MM												
0.82	10.5	20.5	31.5	27.5		216			8.0	300	38	PHE450HF6820J
1	10.5	20.5	31.5	27.5		216			8.0	300	38	PHE450HF7100J
1.2	10.5	20.5	31.5	27.5		216			8.0	300	37	PHE450HF7120J
1.5	11.5	22.5	31.5	27.5		198			10.6	300	34	PHE450HF7150J
1.8	13.5	23.0	31.5	27.5		171			12.7	300	32	PHE450HF7180J
2.2	14.5	24.5	31.5	27.5		153			14.5	300	31	PHE450HF7220J
2.7	17.5	28.0	31.5	27.5		126			19.7	300	27	PHE450HF7270J
3.3	19.0	29.0	31.5	27.5		117			22.1	300	25	PHE450HF7330J
3.9	21.0	30.0	31.5	27.5		108			25.3	300	23	PHE450HF7390J
LEAD SPACING 37.5 MM												
1.8	13.0	24.0	41.0	37.5		140			16.6	200	28	PHE450HR7180J
2.2	13.0	24.0	41.0	37.5		140			16.6	200	28	PHE450HR7220J
2.7	13.0	24.0	41.0	37.5		140			16.6	200	27	PHE450HR7270J
3.3	15.0	26.0	41.0	37.5		119			20.8	200	25	PHE450HR7330J
3.9	16.5	32.0	41.0	37.5		105			28.1	200	22	PHE450HR7390J
4.7	16.5	32.0	41.0	37.5		105			28.1	200	22	PHE450HR7470J
5.6	19.0	36.0	41.0	37.5		91			36.5	200	18	PHE450HR7560J
6.8	21.0	38.0	41.0	37.5		84			42.5	200	17	PHE450HR7680J
400 VDC / 250 VAC (1 section)												
LEAD SPACING 7.5 MM												
0.00068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK3680J
0.00082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK3820J
0.0010	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4100J
0.0012	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4120J
0.0015	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4150J
0.0018	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4180J
0.0022	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4220J
0.0027	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4270J
0.0033	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4330J
0.0039	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4390J
0.0047	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450KK4470J

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 / 250 VAC (1 section)												
LEAD SPACING 7.5 MM												
0.0056	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450KK4560J
0.0068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450KK4680J
0.0082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450KK4820J
0.010	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1200	160	PHE450KK5100J
0.012	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1200	160	PHE450KK5120J
0.015	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1200	160	PHE450KK5150J
0.018	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1200	160	PHE450KK5180J
0.022	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1200	160	PHE450KK5220J
0.027	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1200	160	PHE450KK5270J
0.033	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1200	160	PHE450KK5330J
0.039	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1200	160	PHE450KK5390J
0.047	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1200	160	PHE450KK5470J
LEAD SPACING 10 MM												
0.0010	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4100J
0.0012	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4120J
0.0015	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4150J
0.0018	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4180J
0.0022	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4220J
0.0027	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4270J
0.0033	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4330J
0.0039	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4390J
0.0047	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4470J
0.0056	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4560J
0.0068	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4680J
0.0082	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450KA4820J
0.010	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450KA5100J
0.012	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450KA5120J
0.015	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450KA5150J
0.018	4.0	9.0	13.0	10.0	1000		900		0.6	1100	142	PHE450KA5180J
0.022	4.0	9.0	13.0	10.0	1000		900		0.6	1100	142	PHE450KA5220J
0.027	4.0	9.0	13.0	10.0	1000		900		0.6	1100	142	PHE450KA5270J
0.033	4.5	10.5	13.0	10.0	1000		800		0.9	1100	122	PHE450KA5330J
0.039	5.0	11.0	13.0	10.0	800		700		1.0	1100	116	PHE450KA5390J
0.047	6.0	12.0	13.0	10.0	600		500		1.3	1100	105	PHE450KA5470J
0.056	6.0	12.0	13.0	10.0	600		500		1.3	1100	105	PHE450KA5560J
LEAD SPACING 15 MM												
0.033	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450KB5330J
0.039	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450KB5390J
0.047	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450KB5470J
0.056	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450KB5560J
0.068	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450KB5680J
0.082	5.5	12.5	18.0	15.0	1000		600		1.7	1000	99	PHE450KB5820J
0.1	6.5	12.5	18.0	15.0	1000		500		2.0	1000	85	PHE450KB6100J
0.12	7.5	14.5	18.0	15.0	800		400		2.7	1000	75	PHE450KB6120J
0.15	7.5	14.5	18.0	15.0	800		400		2.7	1000	75	PHE450KB6150J
0.18	8.0	15.0	18.0	15.0	600		400		3.0	1000	71	PHE450KB6180J
0.22	9.5	17.5	18.0	15.0	500		350		4.2	1000	60	PHE450KB6220J
0.27	9.5	17.5	18.0	15.0	500		350		4.2	1000	59	PHE450KB6270J
LEAD SPACING 22.5 MM												
0.12	6.5	14.5	26.0	22.5		234			3.2	600	58	PHE450KD6120J
0.15	6.5	14.5	26.0	22.5		234			3.2	600	58	PHE450KD6150J
0.18	6.5	14.5	26.0	22.5		234			3.2	600	58	PHE450KD6180J
0.22	7.0	16.5	26.0	22.5		216			3.9	600	52	PHE450KD6220J
0.27	7.0	16.5	26.0	22.5		216			3.9	600	52	PHE450KD6270J
0.33	9.0	18.5	26.0	22.5		168			5.6	600	48	PHE450KD6330J
0.39	9.0	18.5	26.0	22.5		168			5.6	600	48	PHE450KD6390J

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 / 250 VAC (1 section)												
LEAD SPACING 22.5 MM												
0.47	10.5	19.0	26.0	22.5			264		6.7	600	45	PHE450KD6470J
0.56	11.0	21.5	26.0	22.5			253		8.0	600	40	PHE450KD6560J
0.68	13.5	23.0	26.0	22.5			209		10.0	600	35	PHE450KD6680J
0.82	13.5	23.0	26.0	22.5			209		10.0	600	35	PHE450KD6820J
1.0	15.5	24.5	26.0	22.5			176		12.0	600	33	PHE450KD7100J
LEAD SPACING 27.5 MM												
0.47	10.5	20.5	31.5	27.5			216		8.0	500	38	PHE450KF6470J
0.56	10.5	20.5	31.5	27.5			216		8.0	500	38	PHE450KF6560J
0.68	10.5	20.5	31.5	27.5			216		8.0	500	38	PHE450KF6680J
0.82	11.5	22.5	31.5	27.5			198		10.6	500	34	PHE450KF6820J
1.0	13.5	23.0	31.5	27.5			171		12.7	500	32	PHE450KF7100J
1.2	14.5	24.5	31.5	27.5			153		14.5	500	30	PHE450KF7120J
1.5	17.5	28.0	31.5	27.5			126		19.7	500	27	PHE450KF7150J
1.8	19.0	29.0	31.5	27.5			117		22.1	500	25	PHE450KF7180J
2.2	21.0	30.0	31.5	27.5			108		25.3	500	24	PHE450KF7220J
LEAD SPACING 37.5 MM												
1.0	13.0	24.0	41.0	37.5			140		16.6	300	27	PHE450KR7100J
1.2	13.0	24.0	41.0	37.5			140		16.6	300	27	PHE450KR7120J
1.5	13.0	24.0	41.0	37.5			140		16.6	300	27	PHE450KR7150J
1.8	15.0	26.0	41.0	37.5			119		20.8	300	25	PHE450KR7180J
2.2	16.5	32.0	41.0	37.5			105		28.1	300	22	PHE450KR7220J
2.7	16.5	32.0	41.0	37.5			105		28.1	300	22	PHE450KR7270J
3.3	19.0	36.0	41.0	37.5			91		36.5	300	19	PHE450KR7330J
3.9	19.0	36.0	41.0	37.5			91		36.5	300	19	PHE450KR7390J
4.7	21.0	38.0	41.0	37.5			84		42.5	300	17	PHE450KR7470J
630 VDC / 300 VAC (1 section)												
LEAD SPACING 7.5 MM												
0.00068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK3680J
0.00082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK3820J
0.0010	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4100J
0.0012	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4120J
0.0015	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4150J
0.0018	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4180J
0.0022	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4220J
0.0027	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4270J
0.0033	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4330J
0.0039	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4390J
0.0047	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450MK4470J
0.0056	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450MK4560J
0.0068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450MK4680J
0.0082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450MK4820J
0.010	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1400	160	PHE450MK5100J
0.012	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1400	160	PHE450MK5120J
0.015	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1400	160	PHE450MK5150J
0.018	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1400	160	PHE450MK5180J
0.022	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1400	160	PHE450MK5220J
LEAD SPACING 10 MM												
0.0010	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4100J
0.0012	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4120J
0.0015	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4150J
0.0018	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4180J
0.0022	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4220J
0.0027	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4270J

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	ρ	Bulk	Tray	Reel	Ammo				
630 VDC / 300 VAC (1 section)												
LEAD SPACING 10 MM												
0.0033	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4330J
0.0039	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4390J
0.0047	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4470J
0.0056	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4560J
0.0068	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4680J
0.0082	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450MA4820J
0.010	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450MA5100J
0.012	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450MA5120J
0.015	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450MA5150J
0.018	4.5	10.5	13.0	10.0	1000		800		0.9	1200	122	PHE450MA5180J
0.022	4.5	10.5	13.0	10.0	1000		800		0.9	1200	122	PHE450MA5220J
0.027	5.0	11.0	13.0	10.0	800		700		1.0	1200	116	PHE450MA5270J
0.033	6.0	12.0	13.0	10.0	600		500		1.3	1200	105	PHE450MA5330J
0.039	6.0	12.0	13.0	10.0	600		500		1.3	1200	105	PHE450MA5390J
630 VDC / 400 VAC (2 section)												
LEAD SPACING 15 MM												
0.01	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450MB5100J
0.012	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450MB5120J
0.015	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450MB5150J
0.018	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450MB5180J
0.022	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450MB5220J
0.027	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450MB5270J
0.033	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450MB5330J
0.039	5.5	12.5	18.0	15.0	1000		600		1.7	2500	90	PHE450MB5390J
0.047	6.5	12.5	18.0	15.0	1000		500		2.0	2500	85	PHE450MB5470J
0.056	6.5	12.5	18.0	15.0	1000		500		2.0	2500	85	PHE450MB5560J
0.068	7.5	14.5	18.0	15.0	800		400		2.7	2500	75	PHE450MB5680J
0.082	8.0	15.0	18.0	15.0	600		400		3.0	2500	72	PHE450MB5820J
0.1	8.5	16.0	18.0	15.0	600		400		3.4	2500	70	PHE450MB6100J
0.12	9.5	17.5	18.0	15.0	500		350		4.2	2500	61	PHE450MB6120J
0.15	9.5	17.5	18.0	15.0	500		350		4.2	2500	61	PHE450MB6150J
LEAD SPACING 22.5 MM												
0.033	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450MD5330J
0.039	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450MD5390J
0.047	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450MD5470J
0.056	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450MD5560J
0.068	6.5	14.5	26.0	22.5		234			3.2	1800	59	PHE450MD5680J
0.082	6.5	14.5	26.0	22.5		234			3.2	1800	59	PHE450MD5820J
0.1	6.5	14.5	26.0	22.5		234			3.2	1800	59	PHE450MD6100J
0.12	7.0	16.5	26.0	22.5		216			3.9	1800	55	PHE450MD6120J
0.15	7.0	16.5	26.0	22.5		216			3.9	1800	55	PHE450MD6150J
0.18	9.0	18.5	26.0	22.5		168			5.6	1800	50	PHE450MD6180J
0.22	9.0	18.5	26.0	22.5		168			5.6	1800	50	PHE450MD6220J
0.27	11.0	21.5	26.0	22.5		253			8.0	1800	45	PHE450MD6270J
0.33	11.0	21.5	26.0	22.5		253			8.0	1800	45	PHE450MD6330J
0.39	13.5	23.0	26.0	22.5		209			10.0	1800	40	PHE450MD6390J
0.47	13.5	23.0	26.0	22.5		209			10.0	1800	40	PHE450MD6470J
0.56	15.5	24.5	26.0	22.5		176			12.0	1800	34	PHE450MD6560J
LEAD SPACING 27.5 MM												
0.22	10.5	20.5	31.5	27.5		216			8	1100	38	PHE450MF6220J
0.27	10.5	20.5	31.5	27.5		216			8	1100	38	PHE450MF6270J
0.33	10.5	20.5	31.5	27.5		216			8	1100	38	PHE450MF6330J
0.39	10.5	20.5	31.5	27.5		216			8	1100	38	PHE450MF6390J
0.47	11.5	22.5	31.5	27.5		198			10.6	1100	35	PHE450MF6470J
0.56	13.5	23.0	31.5	27.5		171			12.7	1100	34	PHE450MF6560J

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight g	Max dU/dt $\text{V}/\mu\text{s}$	$R_{\text{th}} \text{ } ^\circ\text{C}/\text{W}$ 85 $^\circ\text{C}$ 0.2 m/s	Article code 1st block	
	B	H	L	p	Bulk	Tray	Reel	Ammo					
630 VDC / 400 VAC (2 section)													
LEAD SPACING 27.5 MM													
0.68	14.5	24.5	31.5	27.5			153		14.5	1100	33	PHE450MF6680J	
0.82	17.5	28.0	31.5	27.5			126		19.7	1100	30	PHE450MF6820J	
1.0	17.5	28.0	31.5	27.5			126		19.7	1100	30	PHE450MF7100J	
1.2	21.0	30.0	31.5	27.5			108		25.3	1100	25	PHE450MF7120J	
LEAD SPACING 37.5 MM													
0.56	13.0	24.0	41.0	37.5			140		16.6	700	29	PHE450MR6560J	
0.68	13.0	24.0	41.0	37.5			140		16.6	700	28	PHE450MR6680J	
0.82	13.0	24.0	41.0	37.5			140		16.6	700	28	PHE450MR6820J	
1.0	15.0	26.0	41.0	37.5			119		20.8	700	27	PHE450MR7100J	
1.2	15.0	26.0	41.0	37.5			119		20.8	700	27	PHE450MR7120J	
1.5	16.5	32.0	41.0	37.5			105		28.1	700	24	PHE450MR7150J	
1.8	19.0	36.0	41.0	37.5			91		36.5	700	20	PHE450MR7180J	
2.2	19.0	36.0	41.0	37.5			91		36.5	700	20	PHE450MR7220J	
2.7	21.0	38.0	41.0	37.5			84		42.5	700	18	PHE450MR7270J	
1000 VDC / 375 VAC (1 section)													
LEAD SPACING 7.5 MM													
0.00068	4.0	8.0	10.0	7.5	1000			1700	1900	0.5	2000	160	PHE450PK3680J
0.00082	4.0	8.0	10.0	7.5	1000			1700	1900	0.5	2000	160	PHE450PK3820J
0.0010	4.0	8.0	10.0	7.5	1000			1700	1900	0.5	2000	160	PHE450PK4100J
0.0012	4.0	8.0	10.0	7.5	1000			1700	1900	0.5	2000	160	PHE450PK4120J
0.0015	4.0	8.0	10.0	7.5	1000			1700	1900	0.5	2000	160	PHE450PK4150J
0.0018	4.0	8.0	10.0	7.5	1000			1700	1900	0.5	2000	160	PHE450PK4180J
0.0022	4.0	8.0	10.0	7.5	1000			1700	1900	0.5	2000	160	PHE450PK4220J
0.0027	4.0	8.0	10.0	7.5	1000			1700	1900	0.5	2000	160	PHE450PK4270J
0.0033	4.0	8.0	10.0	7.5	1000			1700	1900	0.5	2000	160	PHE450PK4330J
0.0039	4.0	8.0	10.0	7.5	1000			1700	1900	0.5	2000	160	PHE450PK4390J
0.0047	5.0	11.0	10.0	7.5	1000			1300	1500	0.8	2000	160	PHE450PK4470J
0.0056	5.0	11.0	10.0	7.5	1000			1300	1500	0.8	2000	160	PHE450PK4560J
0.0068	5.0	11.0	10.0	7.5	1000			1300	1500	0.8	2000	160	PHE450PK4680J
0.0082	5.0	11.0	10.0	7.5	1000			1300	1500	0.8	2000	160	PHE450PK4820J
0.010	6.0	12.0	10.5	7.5	1000			1000	1200	1.0	2000	160	PHE450PK5100J
0.012	6.0	12.0	10.5	7.5	1000			1000	1200	1.0	2000	160	PHE450PK5120J
LEAD SPACING 10 MM													
0.0010	4.0	9.0	13.0	10.0	1000			900		0.6	1400	142	PHE450PA4100J
0.0012	4.0	9.0	13.0	10.0	1000			900		0.6	1400	142	PHE450PA4120J
0.0015	4.0	9.0	13.0	10.0	1000			900		0.6	1400	142	PHE450PA4150J
0.0018	4.0	9.0	13.0	10.0	1000			900		0.6	1400	142	PHE450PA4180J
0.0022	4.0	9.0	13.0	10.0	1000			900		0.6	1400	142	PHE450PA4220J
0.0027	4.0	9.0	13.0	10.0	1000			900		0.6	1400	142	PHE450PA4270J
0.0033	4.0	9.0	13.0	10.0	1000			900		0.6	1400	142	PHE450PA4330J
0.0039	4.0	9.0	13.0	10.0	1000			900		0.6	1400	142	PHE450PA4390J
0.0047	4.0	9.0	13.0	10.0	1000			900		0.6	1400	142	PHE450PA4470J
0.0056	4.0	9.0	13.0	10.0	1000			900		0.6	1400	142	PHE450PA4560J
0.0068	4.0	9.0	13.0	10.0	1000			900		0.6	1400	142	PHE450PA4680J
0.0082	4.5	10.5	13.0	10.0	1000			800		0.9	1400	122	PHE450PA4820J
0.010	4.5	10.5	13.0	10.0	1000			800		0.9	1400	122	PHE450PA5100J
0.012	5.0	11.0	13.0	10.0	800			700		1.0	1400	116	PHE450PA5120J
0.015	6.0	12.0	13.0	10.0	600			500		1.3	1400	105	PHE450PA5150J
0.018	6.0	12.0	13.0	10.0	600			500		1.3	1400	105	PHE450PA5180J

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				
1000 VDC / 600 VAC (2 section)												
LEAD SPACING 15 MM												
0.0039	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450PB4390J
0.0047	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450PB4470J
0.0056	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450PB4560J
0.0068	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450PB4680J
0.0082	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450PB4820J
0.010	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450PB5100J
0.012	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450PB5120J
0.015	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450PB5150J
0.018	5.5	12.5	18.0	15.0	1000		600		1.7	2500	90	PHE450PB5180J
0.022	5.5	12.5	18.0	15.0	1000		600		1.7	2500	90	PHE450PB5220J
0.027	6.5	12.5	18.0	15.0	1000		500		2.0	2500	87	PHE450PB5270J
0.033	7.5	14.5	18.0	15.0	800		400		2.7	2500	78	PHE450PB5330J
0.039	7.5	14.5	18.0	15.0	800		400		2.7	2500	78	PHE450PB5390J
0.047	8.0	15.0	18.0	15.0	600		400		3.0	2500	75	PHE450PB5470J
0.056	8.5	16.0	18.0	15.0	600		400		3.4	2500	70	PHE450PB5560J
0.068	9.5	17.5	18.0	15.0	500		350		4.2	2500	55	PHE450PB5680J
LEAD SPACING 22.5 MM												
0.022	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450PD5220J
0.027	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450PD5270J
0.033	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450PD5330J
0.039	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450PD5390J
0.047	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450PD5470J
0.056	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450PD5560J
0.068	7.0	16.5	26.0	22.5		216			3.9	1800	55	PHE450PD5680J
0.082	8.0	16.0	26.0	22.5		186			4.3	1800	54	PHE450PD5820J
0.10	9.0	18.5	26.0	22.5		168			5.6	1800	50	PHE450PD6100J
0.12	9.0	18.5	26.0	22.5		168			5.6	1800	50	PHE450PD6120J
0.15	10.5	19.0	26.0	22.5		264			6.7	1800	49	PHE450PD6150J
0.18	11.0	21.5	26.0	22.5		253			8.0	1800	44	PHE450PD6180J
0.22	13.5	23.0	26.0	22.5		209			10.0	1800	40	PHE450PD6220J
0.27	15.5	24.5	26.0	22.5		176			12.0	1800	35	PHE450PD6270J
LEAD SPACING 27.5 MM												
0.15	10.5	20.5	31.5	27.5		216			8.0	1300	38	PHE450PF6150J
0.18	10.5	20.5	31.5	27.5		216			8.0	1300	38	PHE450PF6180J
0.22	11.5	22.5	31.5	27.5		198			10.6	1300	36	PHE450PF6220J
0.27	11.5	22.5	31.5	27.5		198			10.6	1300	36	PHE450PF6270J
0.33	13.5	23.0	31.5	27.5		171			12.7	1300	35	PHE450PF6330J
0.39	14.5	24.5	31.5	27.5		153			14.5	1300	34	PHE450PF6390J
0.47	17.5	28.0	31.5	27.5		126			19.7	1300	30	PHE450PF6470J
0.56	19.0	29.0	31.5	27.5		117			22.1	1300	28	PHE450PF6560J
0.68	21.0	30.0	31.5	27.5		108			25.3	1300	25	PHE450PF6680J
LEAD SPACING 37.5 MM												
0.33	13.0	24.0	41.0	37.5		140			16.6	800	28	PHE450PR6330J
0.39	13.0	24.0	41.0	37.5		140			16.6	800	28	PHE450PR6390J
0.47	13.0	24.0	41.0	37.5		140			16.6	800	28	PHE450PR6470J
0.56	15.0	26.0	41.0	37.5		119			20.8	800	27	PHE450PR6560J
0.68	16.5	32.0	41.0	37.5		105			28.1	800	25	PHE450PR6680J
0.82	16.5	32.0	41.0	37.5		105			28.1	800	25	PHE450PR6820J
1.0	19.0	36.0	41.0	37.5		91			36.5	800	20	PHE450PR7100J
1.2	19.0	36.0	41.0	37.5		91			36.5	800	19	PHE450PR7120J

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				
1600 VDC / 650 VAC (2 section)												
LEAD SPACING 15 MM												
0.0027	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450RB4270J
0.0033	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450RB4330J
0.0039	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450RB4390J
0.0047	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450RB4470J
0.0056	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450RB4560J
0.0068	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450RB4680J
0.0082	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450RB4820J
0.010	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450RB5100J
0.012	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450RB5120J
0.015	5.5	12.5	18.0	15.0	1000		600		1.7	2500	90	PHE450RB5150J
0.018	6.5	12.5	18.0	15.0	1000		500		2.0	2500	88	PHE450RB5180J
0.022	6.5	12.5	18.0	15.0	1000		500		2.0	2500	89	PHE450RB5220J
0.027	7.5	14.5	18.0	15.0	800		400		2.7	2500	80	PHE450RB5270J
0.033	8.0	15.0	18.0	15.0	600		400		3.0	2500	75	PHE450RB5330J
0.039	8.5	16.0	18.0	15.0	600		400		3.4	2500	73	PHE450RB5390J
0.047	9.5	17.5	18.0	15.0	500		350		4.2	2500	60	PHE450RB5470J
0.056	9.5	17.5	18.0	15.0	500		350		4.2	2500	60	PHE450RB5560J
LEAD SPACING 22.5 MM												
0.010	6.5	14.5	26.0	22.5		234			3.2	1800	60	PHE450RD5100J
0.012	6.5	14.5	26.0	22.5		234			3.2	1800	60	PHE450RD5120J
0.015	6.5	14.5	26.0	22.5		234			3.2	1800	60	PHE450RD5150J
0.018	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450RD5180J
0.022	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450RD5220J
0.027	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450RD5270J
0.033	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450RD5330J
0.039	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450RD5390J
0.047	7.0	16.5	26.0	22.5		216			3.9	1800	55	PHE450RD5470J
0.056	7.0	16.5	26.0	22.5		216			3.9	1800	55	PHE450RD5560J
0.068	9.0	18.5	26.0	22.5		168			5.6	1800	50	PHE450RD5680J
0.082	9.0	18.5	26.0	22.5		168			5.6	1800	50	PHE450RD5820J
0.10	10.5	19.0	26.0	22.5		264			6.7	1800	48	PHE450RD6100J
0.12	11.0	21.5	26.0	22.5		253			8.0	1800	45	PHE450RD6120J
0.15	13.5	23.0	26.0	22.5		209			10.0	1800	40	PHE450RD6150J
0.18	13.5	23.0	26.0	22.5		209			10.0	1800	40	PHE450RD6180J
0.22	15.5	24.5	26.0	22.5		176			12.0	1800	34	PHE450RD6220J
LEAD SPACING 27.5 MM												
0.082	10.5	20.5	31.5	27.5		216			8	1300	37	PHE450RF5820J
0.10	10.5	20.5	31.5	27.5		216			8	1300	37	PHE450RF6100J
0.12	10.5	20.5	31.5	27.5		216			8	1300	37	PHE450RF6120J
0.15	11.5	22.5	31.5	27.5		198			10.6	1300	36	PHE450RF6150J
0.18	13.5	23.0	31.5	27.5		153			14.5	1300	35	PHE450RF6180J
0.22	14.5	24.5	31.5	27.5		153			14.5	1300	35	PHE450RF6220J
0.27	17.5	28.0	31.5	27.5		126			19.7	1300	32	PHE450RF6270J
0.33	19.0	29.0	31.5	27.5		117			22.1	1300	28	PHE450RF6330J
0.39	21.0	30.0	31.5	27.5		108			25.3	1300	25	PHE450RF6390J
LEAD SPACING 37.5 MM												
0.18	13.0	24.0	41.0	37.5		140			16.6	800	27	PHE450RR6180J
0.22	13.0	24.0	41.0	37.5		140			16.6	800	27	PHE450RR6220J
0.27	13.0	24.0	41.0	37.5		140			16.6	800	27	PHE450RR6270J
0.33	15.0	26.0	41.0	37.5		119			20.8	800	26	PHE450RR6330J
0.39	16.5	32.0	41.0	37.5		105			28.1	800	24	PHE450RR6390J
0.47	16.5	32.0	41.0	37.5		105			28.1	800	24	PHE450RR6470J
0.56	19.0	36.0	41.0	37.5		91			36.5	800	20	PHE450RR6560J
0.68	19.0	36.0	41.0	37.5		91			36.5	800	20	PHE450RR6680J
0.82	21.0	38.0	41.0	37.5		84			42.5	800	18	PHE450RR6820J

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				
2000 VDC / 700 VAC (2 section)												
LEAD SPACING 15 MM												
0.0010	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4100J
0.0012	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4120J
0.0015	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4150J
0.0018	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4180J
0.0022	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4220J
0.0027	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4270J
0.0033	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4330J
0.0039	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4390J
0.0047	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4470J
0.0056	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4560J
0.0068	5.5	12.5	18.0	15.0	1000		600		1.7	2500	92	PHE450SB4680J
0.0082	5.5	12.5	18.0	15.0	1000		600		1.7	2500	92	PHE450SB4820J
0.01	6.5	12.5	18.0	15.0	1000		500		2.0	2500	90	PHE450SB5100J
0.012	7.5	14.5	18.0	15.0	800		400		2.7	2500	80	PHE450SB5120J
0.015	7.5	14.5	18.0	15.0	800		400		2.7	2500	80	PHE450SB5150J
0.018	8.0	15.0	18.0	15.0	600		400		3.0	2500	75	PHE450SB5180J
0.022	8.5	16.0	18.0	15.0	600		400		3.4	2500	70	PHE450SB5220J
0.027	9.5	17.5	18.0	15.0	500		350		4.2	2500	61	PHE450SB5270J
LEAD SPACING 22.5 MM												
0.0033	6.5	14.5	26.0	22.5		234			3.2	1800	60	PHE450SD4330J
0.0039	6.5	14.5	26.0	22.5		234			3.2	1800	60	PHE450SD4390J
0.0047	6.5	14.5	26.0	22.5		234			3.2	1800	60	PHE450SD4470J
0.0056	6.5	14.5	26.0	22.5		234			3.2	1800	60	PHE450SD4560J
0.0068	6.5	14.5	26.0	22.5		234			3.2	1800	60	PHE450SD4680J
0.0082	6.5	14.5	26.0	22.5		234			3.2	1800	60	PHE450SD4820J
0.010	6.5	14.5	26.0	22.5		234			3.2	1800	60	PHE450SD5100J
0.012	6.5	14.5	26.0	22.5		234			3.2	1800	60	PHE450SD5120J
0.015	6.5	14.5	26.0	22.5		234			3.2	1800	60	PHE450SD5150J
0.018	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450SD5180J
0.022	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450SD5220J
0.027	7.0	16.5	26.0	22.5		216			3.9	1800	55	PHE450SD5270J
0.033	7.0	16.5	26.0	22.5		216			3.9	1800	55	PHE450SD5330J
0.039	8.0	16.0	26.0	22.5		186			4.3	1800	53	PHE450SD5390J
0.047	9.0	18.5	26.0	22.5		168			5.6	1800	52	PHE450SD5470J
0.056	10.5	19.0	26.0	22.5		264			6.7	1800	50	PHE450SD5560J
0.068	11.0	21.5	26.0	22.5		253			8.0	1800	45	PHE450SD5680J
0.082	11.0	21.5	26.0	22.5		253			8.0	1800	45	PHE450SD5820J
0.1	13.5	23.0	26.0	22.5		209			10.0	1800	40	PHE450SD6100J
0.12	15.5	24.5	26.0	22.5		176			12.0	1800	35	PHE450SD6120J
LEAD SPACING 27.5 MM												
0.047	10.5	20.5	31.5	27.5		216			8	1300	37	PHE450SF5470J
0.056	10.5	20.5	31.5	27.5		216			8	1300	37	PHE450SF5560J
0.068	10.5	20.5	31.5	27.5		216			8	1300	37	PHE450SF5680J
0.082	11.5	22.5	31.5	27.5		198			10.6	1300	35	PHE450SF5820J
0.1	13.5	23.0	31.5	27.5		171			12.7	1300	34	PHE450SF6100J
0.12	14.5	24.5	31.5	27.5		153			14.5	1300	33	PHE450SF6120J
0.15	17.5	28.0	31.5	27.5		126			19.7	1300	30	PHE450SF6150J
0.18	19.0	29.0	31.5	27.5		117			22.1	1300	28	PHE450SF6180J
0.22	21.0	30.0	31.5	27.5		108			25.3	1300	26	PHE450SF6220J
LEAD SPACING 37.5 MM												
0.1	13.0	24.0	41.0	37.5		140			16.6	800	27	PHE450SR6100J
0.12	13.0	24.0	41.0	37.5		140			16.6	800	27	PHE450SR6120J
0.15	13.0	24.0	41.0	37.5		140			16.6	800	27	PHE450SR6150J
0.18	15.0	26.0	41.0	37.5		119			20.8	800	26	PHE450SR6180J
0.22	16.5	32.0	41.0	37.5		105			28.1	800	24	PHE450SR6220J

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight g	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				
2000 VDC / 700 VAC (2 section)												
LEAD SPACING 37.5 MM												
0.27	16.5	32.0	41.0	37.5			105		28.1	800	24	PHE450SR6270J
0.33	19.0	36.0	41.0	37.5			91		36.5	800	20	PHE450SR6330J
0.39	21.0	38.0	41.0	37.5			84		42.5	800	18	PHE450SR6390J
0.47	21.0	38.0	41.0	37.5			84		42.5	800	18	PHE450SR6470J
2500 VDC / 900 VAC (3 section)												
LEAD SPACING 15 MM												
0.0010	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450TB4100J
0.0012	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450TB4120J
0.0015	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450TB4150J
0.0018	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450TB4180J
0.0022	5.5	12.5	18.0	15.0	1000		600		1.7	2500	92	PHE450TB4220J
0.0027	6.5	12.5	18.0	15.0	1000		500		2.0	2500	90	PHE450TB4270J
0.0033	7.5	14.5	18.0	15.0	800		400		2.7	2500	80	PHE450TB4330J
0.0039	7.5	14.5	18.0	15.0	800		400		2.7	2500	80	PHE450TB4390J
0.0047	8.0	15.0	18.0	15.0	600		400		3.0	2500	75	PHE450TB4470J
0.0056	8.5	16.0	18.0	15.0	600		400		3.4	2500	70	PHE450TB4560J
0.0068	8.5	16.0	18.0	15.0	600		400		3.4	2500	70	PHE450TB4680J
0.0082	9.5	17.5	18.0	15.0	500		350		4.2	2500	60	PHE450TB4820J
LEAD SPACING 22.5 MM												
0.0047	6.5	14.5	26	22.5			234		3.2	1800	60	PHE450TD4470J
0.0056	6.5	14.5	26	22.5			234		3.2	1800	60	PHE450TD4560J
0.0068	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450TD4680J
0.0082	7.0	16.5	26.0	22.5			216		3.9	1800	55	PHE450TD4820J
0.010	8.0	16.0	26.0	22.5			186		4.3	1800	53	PHE450TD5100J
0.012	9.0	18.5	26.0	22.5			168		5.6	1800	52	PHE450TD5120J
0.015	9.0	18.5	26.0	22.5			168		5.6	1800	52	PHE450TD5150J
0.018	10.5	19.0	26.0	22.5			264		6.7	1800	50	PHE450TD5180J
0.022	11.0	21.5	26.0	22.5			253		8.0	1800	45	PHE450TD5220J
0.027	13.5	23.0	26.0	22.5			209		10.0	1800	45	PHE450TD5270J
0.033	15.5	24.5	26.0	22.5			176		12.0	1800	35	PHE450TD5330J
0.039	15.5	24.5	26.0	22.5			176		12.0	1800	35	PHE450TD5390J