

PHE448

• Pulse capacitor, polypropylene film/foil

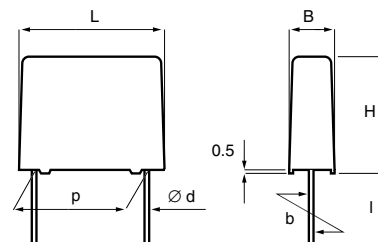
RoHS
Compliant

TYPICAL APPLICATIONS

High frequency and high voltage applications, requiring capacitors with extremely high current handling capability, i.e. high dU/dt values.

CONSTRUCTION

Polypropylene film dielectric with aluminum foil and metallized film as electrodes, encapsulated in self-extinguishing material meeting the requirements of UL94V-0.



TECHNICAL DATA

Rated voltage U_R , VDC

Rated voltage U_R , VAC

1600 2000

650 700

Capacitance range, nF

1.5– 0.1–
22 3.3

Capacitance values

In accordance with 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 from +85 °C.

Climatic category

55/105/56

Voltage proof

2 x U_R , 2s

Insulation resistance

Measured at +23 °C, 100 VDC, 60s
Between terminals:
≥ 100 000 MΩ
Between terminals and case:
≥ 100 000 MΩ

Dissipation factor tanδ

Max values at +23°C
1 kHz: 0.03%
10 kHz: 0.05%
100 kHz: 0.1%

Pulse rise time

The capacitors can withstand an unlimited number of pulses with a dU/dt according to the article table.

p	d	std l	max l	b
15.0 ± 0.4	0.8	6 ⁻¹	30	±0.4

Larger lead spacings, sizes and voltages on request. Ask for quotation.

ORDERING INFORMATION

The article code for the standard part is given in the article table.
For other options, see page 11.

MARKING

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

ENVIRONMENTAL TEST DATA

See page 95.

ARTICLE TABLE

Capacitance nF Box code Max dimensions in mm (B, H, L) Max dU/dt V/μs Rthha °C/W (85 °C, 0.2 m/s) Article code

Capacitance nF Box code Max dimensions in mm (B, H, L) Max dU/dt V/μs Rthha °C/W (85 °C, 0.2 m/s) Article code

1600 VDC/650 VAC

2000 VDC/700 VAC

LEAD SPACING 15 MM

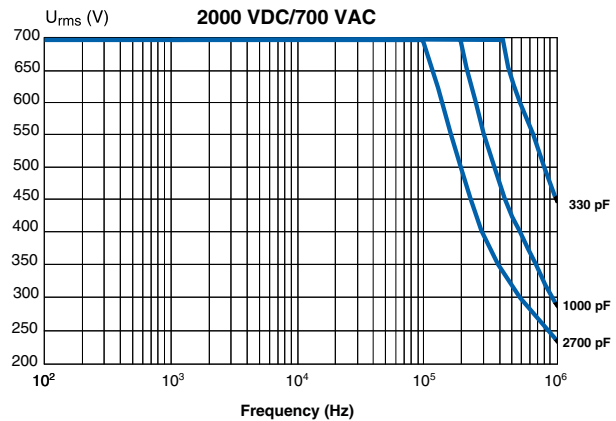
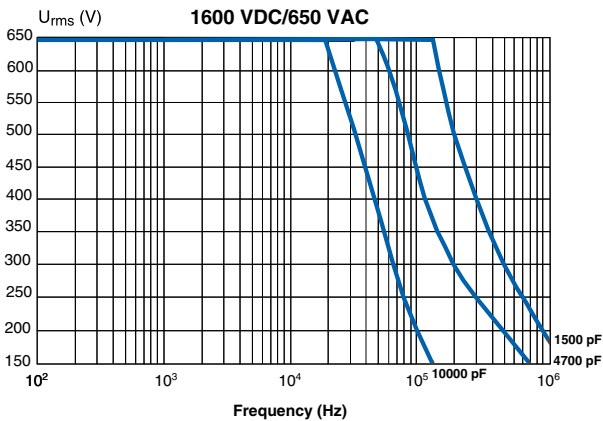
LEAD SPACING 15 MM

1.5	B04	5.5	10.5	18.0	15000	87	PHE448RB4150JR06
1.8	B04	5.5	10.5	18.0	15000	86	PHE448RB4180JR06
2.2	B04	5.5	10.5	18.0	15000	84	PHE448RB4220JR06
2.7	B10	6.5	12.5	18.0	15000	82	PHE448RB4270JR06
3.3	B10	6.5	12.5	18.0	15000	82	PHE448RB4330JR06
3.9	B10	6.5	12.5	18.0	15000	82	PHE448RB4390JR06
4.7	B10	6.5	12.5	18.0	15000	82	PHE448RB4470JR06
5.6	B06	7.5	14.5	18.0	15000	78	PHE448RB4560JR06
6.8	B06	7.5	14.5	18.0	15000	78	PHE448RB4680JR06
8.2	B11	8.5	16.0	18.0	15000	70	PHE448RB4820JR06
10.0	B11	8.5	16.0	18.0	15000	70	PHE448RB5100JR06
12.0	B11	8.5	16.0	18.0	15000	70	PHE448RB5120JR06
15.0	B14	9.5	17.5	18.0	15000	60	PHE448RB5150JR06
18.0	B16	11.0	19.0	18.0	15000	55	PHE448RB5180JR06
22.0	B16	11.0	19.0	18.0	15000	55	PHE448RB5220JR06

0.10	B04	5.5	10.5	18.0	25000	87	PHE448SB3100JR06
0.12	B04	5.5	10.5	18.0	25000	87	PHE448SB3120JR06
0.15	B04	5.5	10.5	18.0	25000	87	PHE448SB3150JR06
0.18	B04	5.5	10.5	18.0	25000	87	PHE448SB3180JR06
0.22	B04	5.5	10.5	18.0	25000	87	PHE448SB3220JR06
0.27	B04	5.5	10.5	18.0	25000	87	PHE448SB3270JR06
0.33	B04	5.5	10.5	18.0	25000	86	PHE448SB3330JR06
0.39	B04	5.5	10.5	18.0	25000	86	PHE448SB3390JR06
0.47	B04	5.5	10.5	18.0	25000	86	PHE448SB3470JR06
0.56	B04	5.5	10.5	18.0	25000	85	PHE448SB3560JR06
0.68	B04	5.5	10.5	18.0	25000	85	PHE448SB3680JR06
0.82	B04	5.5	10.5	18.0	25000	85	PHE448SB3820JR06
1.0	B04	5.5	10.5	18.0	25000	84	PHE448SB4100JR06
1.2	B10	6.5	12.5	18.0	25000	82	PHE448SB4120JR06
1.5	B10	6.5	12.5	18.0	25000	82	PHE448SB4150JR06
1.8	B06	7.5	14.5	18.0	25000	78	PHE448SB4180JR06
2.2	B11	8.5	16.0	18.0	25000	70	PHE448SB4220JR06
2.7	B11	8.5	16.0	18.0	25000	70	PHE448SB4270JR06
3.3	B14	9.5	17.5	18.0	25000	60	PHE448SB4330JR06

Updated since the latest printed catalogue

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



More simulation possibilities in PCCAD. See page 94.