PHE846

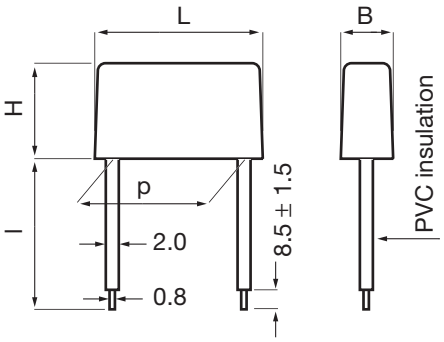
- **Insulated leads**
- **EMI suppressor, class X2, metallized polypropylene**
- **47 - 680 nF, 275 VAC, +105°C**

TYPICAL APPLICATIONS

For worldwide use as electromagnetic interference suppressor in all X2 and across-the-line applications.

CONSTRUCTION

Metallized polypropylene film encapsulated with selfextinguishing epoxy resin in a box of material recognized to UL 94 V–0.



p	d	std l	max l
15.0	0.8	30	40
22.5	0.8	30	40

Tolerance in lead length ± 2 mm

TECHNICAL DATA

Rated voltage	275 VAC 50/60 Hz
Capacitance range	47 – 680 nF
Capacitance tolerance	± 20% standard, ± 10% option, ± 5% on request
Temperature range	–55 to +105°C
Climatic category	55/105/56/B
Approvals	ENEC
Dissipation factor	Maximum values at +23°C

	C ≤ 0.1 µF	0.1µF < C ≤ 1.0 µF
1 kHz	0.1%	0.1%
10 kHz	0.2%	0.4%
100 kHz	0.6%	–

Test voltage between terminals	The 100% screening factory test is carried out at 2200 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test.
Insulation resistance	C ≤ 0.33 µF: ≥ 30 000 MΩ C > 0.33 µF: ≥ 10 000 s
In DC applications	Maximum voltage 760 VDC

ENVIRONMENTAL TEST DATA

Endurance	IEC 60384–14	1.25 x U_R VAC 50 Hz, once every hour increased to 1000 VAC for 0.1 s, 1000 h at upper rated temperature	
Change of temperature	IEC 60068–2–14 Test Na	Upper and lower rated temperature 5 cycles	No visible damage
Active flammability	EN 132400		
Passive flammability	IEC 60384-14 (1993) EN 132400	Enclosure material of UL94V–0 flammability class	
Humidity	IEC 60068-2-3 Test Ca	+40°C and 90 – 95% R.H.	56 days

ARTICLE TABLE

Capacitance µF	Box code	Max dimensions in mm B	H	L	f_o MHz	Max dU/dt V/µs	Article code
LEAD SPACING 15 MM							
0.047	B01	5.5	10.5	18.0	3.3	100	PHE846MB5470MB01R30
0.068	B01	5.5	10.5	18.0	2.7	100	PHE846MB5680MB01R30
0.10	B02	5.5	14.0	18.0	2.2	100	PHE846MB6100MB02R30
0.15	B03	6.5	12.5	18.0	1.8	100	PHE846MB6150MB03R30
0.22	B07	8.5	14.5	18.0	1.5	100	PHE846MB6220MB07R30
LEAD SPACING 22.5 MM							
0.33	D01	7.5	15.5	26.5	1.0	100	PHE846MD6330MD01R30
0.47	D02	8.5	16.5	26.5	0.85	100	PHE846MD6470MD02R30
0.68	D03	10.5	18.5	26.5	0.71	100	PHE846MD6680MD03R30

APPROVALS/REFERENCE DOCUMENTS

Certification Body	Specification	Approval reference
ENEC	EN 132400	SE/0140-6

ORDERING INFORMATION

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

MARKING

- RIFA
- RIFA article code
- Rated capacitance
- Capacitance tolerance code
- Rated voltage
- X2
- Approval marks
- Manufacturing date code
- IEC climatic category
- Passive flammability class