## **PHE845**



57

- EMI suppressor, class X1, metallized polypropylene
- 0.01 1.0 μF, 760 VAC/600 VAC, +105°C

## **TYPICAL APPLICATIONS**

For worldwide use as electromagnetic interference suppressor in all X1 and across-the-line applications.

Not for use in series with the mains.

See www.kemet.com for more information.

## CONSTRUCTION

Triple winding of metallized polypropylene. Encapsulated in self-extinguishing material meeting the requirements of UL 94 V–0.

## D B H

р	d	std I	max I	b
$22.5 \pm 0.4$	0.8	6 6 6	30	±0.4
$27.5 \pm 0.4$	0.8		30	±0.4
$37.5 \pm 0.5$	1.0		30	±0.7

Tolerance in lead length < 30 mm  $_{-1}^{+0}$  mm

30 mm <sup>+5</sup> mm

3-1317	$\sim$ $^{\circ}$		۸
1 <b>-</b> 1 V I I	CAL	DATE.	٠

Rated voltage 760 VAC 50/60 Hz (ENEC) 600 VAC 50/60 Hz (UL, CSA)

Capacitance range 0.01 – 1.0 μF

**Capacitance tolerance** ± 20% standard, ± 10% option

**Temperature range** -40 to +105°C

Climatic category 40/105/56/B

Approvals ENEC, UL, cUL

**Dissipation factor** Maximum values at +23°C

	C ≤ 0.1 µF	0.1µF < C ≤ 1 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 4250 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test.

**Resonance frequency** Tabulated self-resonance frequencies f<sub>0</sub> refer to 5 mm

lead length.

 $\mbox{Insulation resistance} \qquad \qquad C \leq 0.33 \ \mu \mbox{F} : \geq 30 \ 000 \ M\Omega \label{eq:constraint}$ 

 $C > 0.33 \ \mu F$ :  $\geq 10 \ 000 \ s$ 

**In DC application** Recommended voltage: ≤ 1500VDC

<b>ENVIRONMENTAL TEST DATA</b>
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**Endurance** EN/IEC 60384-14:2005 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

Vibration IEC 60068–2–6 3 directions at 2 hours each, No visible damage

Test Fc 10–55 Hz at 0.75 mm or 98 m/s<sup>2</sup> No open or short circuit

BumpIEC 60068-2-29<br/>Test Eb1000 bumps at<br/>390 m/s²No visible damage<br/>No open or short circuit

Change of temperature IEC 60068–2–14 Upper and lower rated No visible damage

Test Na temperature 5 cycles

Active flammability EN/IEC 60384-14:2005

Passive flammability EN/IEC 60384-14:2005 Enclosure material of

UL1414 UL94V–0 flammability class

**Humidity** IEC 60068-2-3 +40°C and 56 days

Test Ca 90 – 95% R.H.

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ARTICLE TABLE							LE	APPROVALS		
Capac		к Ма deinr		ensior		Max	t Article code	Certification Body	Specification	
μF	000	В	Н	L		V/µs		ENEC	EN/IEC 60384-14	2005
			LE	AD S	PACI	NG 2	2.5 MM	UL	UL 1283	(U <sub>R</sub> =600 VAC)
0.010 0.015 0.022 0.033	D13	6.5 6.5	14.5 14.5 14.5 16.5	26.0 26.0	9.2 7.6	100 100	PHE845VD5100MR06L2 PHE845VD5150MR06L2 PHE845VD5220MR06L2 PHE845VD5330MR06L2	cUL recognition	C 22.2 No. 8	(U <sub>R</sub> =600 VAC)
0.047 0.068 0.10 0.15 0.22	D18 D16 D20	10.5 11.0 13.5	19.0 21.5 23.0	26.0 26.0 26.0 26.0 26.0	4.4 3.5 3.1	100 100 100	PHE845VD5470MR06L2 PHE845VD5680MR06L2 PHE845VD6100MR06L2 PHE845VD6150MR06L2 PHE845VY6220MR06L2*	ORDERING INFORMATION  The article code for the standard part is given in the article table. For other options, see page 11.		
			LE	AD S	PACI	NG 2	7.5 MM		MARKING	
0.10 0.15 0.22 0.33 0.47	F12 F03 F15	11.5 13.5 19.0	20.5 22.5 23.0 29.0 30.0	31.5 31.5 31.5	3.0 2.4 2.0	100 100 100	PHE845VF6100MR06L2 PHE845VF6150MR06L2 PHE845VF6220MR06L2 PHE845VF6330MR06L2 PHE845VZ6470MR06L2*	<ul> <li>RIFA</li> <li>RIFA article code</li> <li>Rated capacitance</li> <li>Capacitance toleral</li> <li>Rated voltage</li> </ul>	nce code	
LEAD SPACING 37.5 MM					PACI	NG 3	7.5 MM	<ul><li>X1</li><li>Approval marks</li></ul>		
0.47 0.47 0.68	R02 R03	16.5 19.0	26.0 32.0 36.0	41.0 41.0	1.6 1.2	100 100	PHE845VW6470MR06L2* PHE845VR6470MR06L2 PHE845VR6680MR06L2	<ul><li>Manufacturing date</li><li>IEC climatic catego</li><li>Passive flammabilit</li></ul>	ry	
1.0	R06	21.0	38.0	41.0	1.0	100	PHE845VW7100MR06L2*			

<sup>\*</sup> Only ±20%

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