PHE845



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- 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. 0.5

р	d	std I	max I	b
22.5 ± 0.4	0.8	666	30	±0.4
27.5 ± 0.4	0.8		30	±0.4
37.5 ± 0.5	1.0		30	±0.7

Tolerance in lead length < 30 mm ⁺⁰ mm

No visible damage

30 mm ⁺⁵ mm

TECHNICAL DATA

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

 $0.01 - 1.0 \mu F$ Capacitance range

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

> $C \leq 0.1~\mu F \mid 0.1 \mu F < C \leq 1~\mu F$ 1 kHz 0.1% 0.1% 10 kHz 0.2% 0.4% 100 kHz 0.6%

Test voltage between

Change of temperature

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 f₀ refer to 5 mm

lead length.

Insulation resistance $C \leq 0.33~\mu F; \geq 30~000~M\Omega$

 $C > 0.33 \ \mu F \ge 10 \ 000 \ s$

In DC application Recommended voltage: ≤ 1500VDC

	ENVIR	ONM	ENTA	L TES	Γ DATA
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Endurance EN/IEC 60384-14:2005 $1.25 \times U_{\scriptscriptstyle R} \text{ VAC } 50 \text{ Hz},$

once every hour increased to 1000 VAC for 0.1 s,

Upper and lower rated

1000 h at upper rated temperature

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

10-55 Hz at 0.75 mm or 98 m/s² No open or short circuit Test Fc

IEC 60068-2-29 **Bump** 1000 bumps at No visible damage No open or short circuit Test Eb 390 m/s²

Test Na temperature 5 cycles

Active flammability EN/IEC 60384-14:2005

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

IEC 60068-2-14

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					TAE	BLE	APPROVALS				
Capaci- Box Max dimensions tance code in mm f				Max IU/dt Article code	Certification Body	Specification					
μF		В	Н	L		V/µs		ENEC	EN/IEC 60384-14:2005		
LEAD SPACING 22.5 MM					PACI	NG 2	22.5 MM	UL	UL 1283	(U _R =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	11 9.2 7.6 6.4	100 100	PHE845VD5100MR06L2 PHE845VD5150MR06L2 PHE845VD5220MR06L2 PHE845VD5330MR06L2	cUL recognition	C 22.2 No. 8	(U _R =600 VAC)	
0.047 0.068 0.10 0.15 0.22	D18 D16 D20		21.5 23.0	26.0 26.0 26.0	5.3 4.4 3.5 3.1 2.7	100 100 100	PHE845VD5470MR06L2 PHE845VD5680MR06L2 PHE845VD6100MR06L2 PHE845VD6150MR06L2 PHE845VY6220MR06L2*	ORDERING INFORMATION The article code for the standard part is given in the article tab For other options, see page 11.			
LEAD SPACING 27.5 MM				27.5 MM	MARKING						
0.10 0.15 0.22 0.33 0.47	F15	10.5 11.5 13.5 19.0 21.0	22.5 23.0 29.0	31.5 31.5 31.5	2.0	100 100 100	PHE845VF6100MR06L2 PHE845VF6150MR06L2 PHE845VF6220MR06L2 PHE845VF6330MR06L2 PHE845VZ6470MR06L2*	 RIFA RIFA article code Rated capacitance Capacitance tolerance code Rated voltage 			
LEAD SPACING 37.5 MM				37.5 MM	X1Approval marks						
0.47 0.47 0.68 1.0	R02 R03	15.0 16.5 19.0 21.0	32.0 36.0	41.0 41.0	1.6	100 100	PHE845VW6470MR06L2* PHE845VR6470MR06L2 PHE845VR6680MR06L2 PHE845VW7100MR06L2*	 Manufacturing date code IEC climatic category Passive flammability class 			

^{*} Only ±20%

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