PHE844



- EMI suppressor, class X1, metallized polypropylene
- 0.1 2.2 μF, 440 VAC/480 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

Series 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 ± 0.4	0.8	6 6 6	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 ⁺⁰₋₁ mm

No open or short circuit

30 mm ⁺⁵₋₀ mm

	\sim L	М	$\sim \Lambda$			
_	7		UΑ	ь.	u	AT/

Rated voltage440 VAC 50/60 Hz (ENEC)
480 VAC 50/60 Hz (UL, CSA)

Capacitance range $0.1 - 2.2 \mu F$

Capacitance tolerance \pm 20% standard, \pm 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	C > 1 µF
1 kHz	0.1%	0.1%	0.1%
10 kHz	0.2%	0.4%	0.8%
100 kHz	0.6%	_	_

Test voltage between

terminals

The 100% screening factory test is carried out at 3000 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 $f_{\scriptscriptstyle 0}$ refer to 5 mm

lead length.

Insulation resistance $C \le C$

 $C \leq 0.33~\mu F \colon \geq 30~000~M\Omega$ $C > 0.33~\mu F \colon \geq 10~000~s$

In DC application Recommended voltage: ≤1000VDC

ENVIRONMENTAL TEST DATA

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/s²

311C 10-33112 at 0.73 min or 30 m/s

temperature 5 cycles

BumpIEC 60068-2-291000 bumps atNo visible damageTest Eb390 m/s²No open or short circuit

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

Active flammability EN/IEC 60384-14:2005

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

Test Na

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 Max tance code in mm f, dU/dt					Certification Body	Specification					
tance µF	CO	B	H	L		υ/υ : V/μ:	dt Article code s	ENEC	EN/IEC 60384-14:2005		
LEAD SPACING 22.5 MM						NG 2	2.5 MM	UL	UL 1283 UL 1414	(U _R =480 VAC) (U _R =250 VAC)	
0.10 0.15 0.22 0.33 0.47	D20	9.0 11.0 13.5	16.0 18.5 21.5 23.0 24.5	26.0 26.0 26.0	2.6 2.1 1.8	100 100 100	PHE844RD6100MR06L2 PHE844RD6150MR06L2 PHE844RD6220MR06L2 PHE844RD6330MR06L2 PHE844RD6470MR06L2	cUL recognition	C 22.2 No. 8 C 22.2 No. 1	(U _R =480 VAC) (U _R =250 VAC)	
	LEAD SPACING 27.5 MM					NG 2	27.5 MM	ORDERING INFORMATION			
0.22 0.33 0.47		13.5 14.5	20.5 23.0 24.5	31.5 31.5	1.7	100 100	PHE844RF6220MR06L2 PHE844RF6330MR06L2 PHE844RF6470MR06L2	The article code for the For other options, see	e standard part is given ir page 11.	n the article table.	
0.68			28.0		1.1		PHE844RF6680MR06L2 PHE844RF7100MR06L2		MARKING		
0.47 0.68 1.0 1.5	R05	13.0 15.0	24.0 24.0 26.0	41.0 41.0 41.0	1.3 1.1 0.92	100 100 100	PHE844RR6470MR06L2 PHE844RR6680MR06L2 PHE844RR7100MR06L2 PHE844RR7150MR06L2	 RIFA RIFA article code Rated capacitance Capacitance tolerance code Rated voltage X1 Approval marks Manufacturing date code IEC climatic category 			
2.2							PHE844RR7220MR06L2				

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute – and we specifically disclaim – any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

• Passive flammability class