PHE843

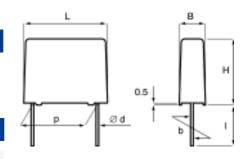
- EMI suppressor, class X2, metallized polypropylene
- 0.01 6.8 µF, 275/280 VAC, +105°C
- · Highest volumetric efficiency, more capacitance and smaller case sizes
- Complement to PHE840M

TYPICAL APPLICATIONS

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

CONSTRUCTION

Metallized polypropylene winding, encapsulated in self-extinguishing material meeting the requirements of UL 94 V–0.



р	d	std I	max I	b
10.0 ± 0.4 15.0 ± 0.4 22.5 ± 0.4 27.5 ± 0.4 37.5 ± 0.5	0.6	17	30	±0.4
	0.8	17	30	±0.4
	0.8	6	30	±0.4
	0.8	6	30	±0.4
	1.0	6	30	±0.7

Tolerance in lead length

 $< 30 \text{ mm}^{+0}_{-1} \text{ mm}$

≥ 30 mm +5 mm

TECHNICAL DATA

Rated voltage 275 VAC 50/60 Hz (280 VAC North America)

Capacitance range 0.01 – 6.8 µF

Capacitance tolerance ± 20% standard, ± 10% option

Temperature range -40 to +105°C

Climatic category 40/105/56/B

Approvals S, UL, CSA

Dissipation factor tanδ Maximum values at +23°C

	$C \le 0.1 \mu\text{F}$	0.1μF < C≤0.47μF	$C > 0.4 / \mu F$
1 kHz	0.1%	0.1%	0.1%
10 kHz	0.1%	0.2%	0.5%
100 kHz	0.6%	0.9%	_

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.

Resonance frequency Tabulated self-resonance frequencies f_0 refer to

5 mm lead length.

Insulation resistance $C \le 0.33 \ \mu F : \ge 30\ 000\ M\Omega$

Test Na

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

In DC applications Recommended voltage: ≤ 630 VDC

ENVIRONMENTAL TEST DATA

Endurance IEC 60384–14 1.25 x U_p 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 No open or short circuit

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

rest Eb 370 m/s indoperor short direction

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

Active flammability EN 132400

Passive flammability IEC 60384-14 (1993) Enclosure material of

EN 132400 UL94V–0 flammability class UL1414

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

Test Ca 90 – 95% R.H.



temperature 5 cycles

							ART	ICLE TA	BLE					
Capaci- tance	Max o		ons		Quant Bulk	ity per _l Tray	package reel taped	Weight	\mathbf{f}_0	Max dU/dt	Ap	•	vals	Article code
μF	В	Н	L	р	pcs	pcs	pcs	g	мНz	V/µs	S	Ⅎ	CSA	1 st block
LEAD SPACING 10 MM														
0.068	5.0	11.0	13.0	10.0	800		700	1.0	7.5	100	Р	Р	Р	PHE843MA5680M
0.10	6.0	12.0	13.0	10.0	600		500	1.2	6.0	100	Р	Р	Р	PHE843MA6100M
LEAD SPACING 15 MM														
0.15	7.5	14.5	18.0	15.0	400		400	2.2	2.8	100	Р	Р	Р	PHE843MB6150M
0.22	8.0	15.0	18.0	15.0	400		400	2.9	2.5	100	Р	Ρ	Р	PHE843MB6220M
0.33	9.5	17.5	18.0	15.0	300		350	3.5	2.0	100	Р	Р	Р	PHE843MB6330M
							LFAD	SPACING	22 5 MM	Ī				
								0.7.00	22.0 11.11					
0.47	9.0	18.5	26.0	22.5		168		5.0	1.5	100	Р	Р	Р	PHE843MD6470M
0.68	10.5	19.0	26.0	22.5		264		6.6	1.2	100	Р	Р	Р	PHE843MD6680M
1.0	13.5	23.0	26.0	22.5		209		10.0	1.0	100	Р	Р	Р	PHE843MD7100M
							LEAD	SPACING	27 5 N/N/	1				
							LLAD	JI AOIIIO	27.5 10110	ı				
1.5	14.5	24.5	31.5	27.5		153		14.5	0.87	100	Р	Р	Р	PHE843MF7150M
2.2	17.5	28.0	31.5	27.5		126		17.0	0.78	100	Р	Р	Р	PHE843MF7220M
3.3	21.0	30.0	31.5	27.5		108		22.6	0.66	100	Р	Р	Р	PHE843MF7330M
	LEAD SPACING 37.5 MM													
										=				
4.7	19.0	36.0	41.0	37.5		91		28.5	0.44	100	Р	Р	Р	PHE843MR7470M
6.8	21.0	38.0	41.0	37.5		84		34.4	0.39	100	Ρ	Ρ	Р	PHE843MR7680M

$P = A_{I}$	provals	pending
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	APPROVALS/REFERENCE	MARKING					
Country	Specification	Approval reference PHE843	RIFARIFA article code				
S = Sweden UL = USA CSA = Canada (cUL recognition)	EN 132400 UL 1283 (U _R = 280 VAC) UL 1414 (U _R = 250 VAC) C 22.2 No. 8 (U _R = 280 VAC) C 22.2 No. 1 (U _R = 250 VAC)	Pending Pending Pending Pending Pending	 Rated capacitance Capacitance tolerance code Rated voltage X2 Approval marks Manufacturing date code IEC climatic category Passive flammability class 				

Article code							
1st block	2nd block						
See article table Pos. 13 Capacitance tolerance code: $M = \pm 20\%$ standard $K = \pm 10\%$ option	If not standard lead length, add R06 – R30 in pos. 14–16. For reel taped, add 17T0 or 17T1 in pos. 14–15. For packing on trays (6 mm lead length), add L2 in pos. 17–18.						
P H E 8 4 3 M B 6 1 5 0 M	R 0 6						
1 2 3 4 5 6 7 8 9 10 11 12 13	14 15 16 17 18 19 20						

ORDERING INFORMATION

PACKING

The box dimensions for bulk packaging are 245 x 145 x 80 mm. Quantity/package as per article table.

Reels with taped capacitors are packed 10 in a box with dimension 370 x 370 x 560 mm. Quantity/reel according to article table. The standard quantity/reel is for 360 mm reel. If 500 mm reel is required, it must be specified when ordering and the quantity is 2 x the given quantity.

