

PHE842

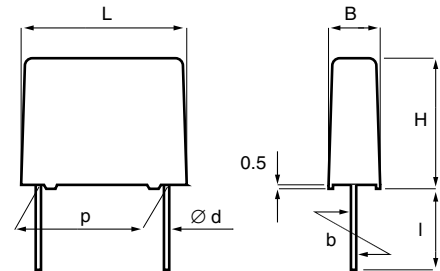
- General purpose Y2 capacitor, metallized polyester
- 0.001 – 0.0047 μF , 250 VAC, +100°C

TYPICAL APPLICATIONS

General purpose Y2 capacitor for less demanding applications.

CONSTRUCTION

Series winding of metallized polyester, encapsulated in self-extinguishing material meeting the requirements of UL 94 V-0.



p	d	std l	max l	b
10.0 ± 0.4	0.6	17	30	±0.4

Tolerance in lead length $\begin{matrix} +0 \\ -1 \end{matrix}$

TECHNICAL DATA

Rated voltage	250 VAC 50/60 Hz
Capacitance range	0.001 – 0.0047 μF
Capacitance tolerance	± 20%
Temperature range	–40 to +100°C
Climatic category	40/100/56/C
Approvals	S, VDE, UL, CSA
Dissipation factor tanδ	≤ 1.0% at 1 kHz
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_0 refer to 5 mm lead length.
Insulation resistance	≥ 30 000 M Ω

ENVIRONMENTAL TEST DATA

Endurance	IEC 60384–14	1.7 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 Test Fc	3 directions at 2 hours each, 10–55 Hz at 0.75 mm or 98 m/s ²	No visible damage No open or short circuit
Bump	IEC 60068–2–29 Test Eb	1000 bumps at 390 m/s ²	No visible damage No open or short circuit
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 UL1414	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	Max dimensions in mm				Quantity per package			Weight g	f_0 MHz	Max dU/dt V/ μs	Approvals				Article code
	B	H	L	p	Bulk pcs	Tray pcs	reel taped pcs				S	VDE	UL	CSA	
0.0010	4.0	9.0	13.0	10.0	1000		900	0.7	37	100	√	√	√	√	PHE842MA4100MR17
0.0015	4.0	9.0	13.0	10.0	1000		900	0.7	30	100	√	√	√	√	PHE842MA4150MR17
0.0022	4.0	9.0	13.0	10.0	1000		900	0.7	25	100	√	√	√	√	PHE842MA4220MR17
0.0033	4.5	10.5	13.0	10.0	1000		800	0.7	21	100	√	√	√	√	PHE842MA4330MR17
0.0047	4.5	10.5	13.0	10.0	1000		800	0.7	18	100	√	√	√	√	PHE842MA4470MR17

APPROVALS/REFERENCE DOCUMENTS

Certification Body	Specification	Approval reference
S	EN 132400	9906218/01
VDE	EN 132400	118890
UL	UL 1283	E100117
	UL 1414	E73869
CSA	C 22.2 No. 8	E100117
	C 22.2 No. 1	E73869

MARKING

- RIFA
- RIFA article code
- Rated capacitance
- Capacitance tolerance code
- Rated voltage
- Y2
- Approval marks
- Manufacturing date code
- IEC climatic category
- Passive flammability class

ORDERING INFORMATION

The article code for the standard part is given in the article table.
For other options, see page 21.

PACKING

The box dimensions for bulk packaging are 185 x 115 x 70 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.