

# PME295



**RoHS**  
Compliant

- EMI suppressor, class Y1, metallized paper capacitor
- Safety capacitor, ceramic replacement
- 470 – 4700 pF, 440 VAC/480 VAC, +115 °C, test voltage 4000 VAC 60 s
- Replaces PME294

- Self-extinguishing encapsulation. The material is recognized according to UL 94 V-0.
- Excellent self-healing properties. Ensures long life even when subjected to frequent overvoltages.
- High dU/dt capability.
- Good resistance to ionisation due to impregnated dielectric.

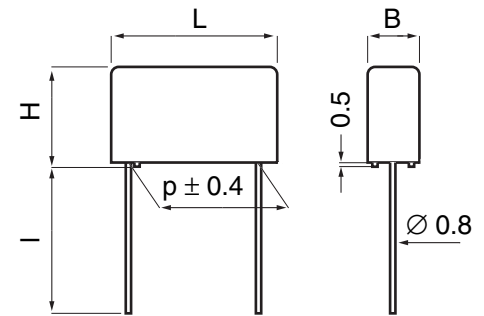
- The capacitors meet the most stringent IEC humidity class, 56 days.
- The impregnated paper ensures excellent stability giving outstanding reliability properties, especially in applications having continuous operation.

## TYPICAL APPLICATIONS

Safety capacitor for bridging of double or reinforced insulation applications requiring voltage test up to 4000 VAC 60 seconds. PME295 can be left in place during this test.

## CONSTRUCTION

Multi-layer metallized paper. Encapsulated and impregnated in self-extinguishing material meeting the requirements of UL 94V-0.

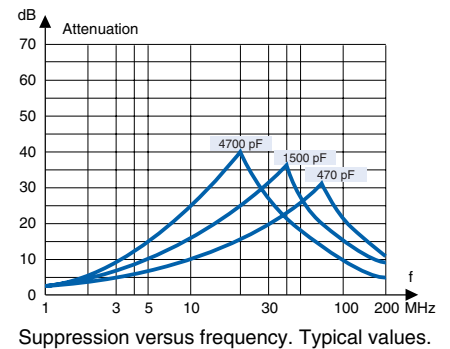


l = standard: 30 +5/-0 mm

option 1: short leads, tolerance +0/-1 mm (standard 6 mm, code R06)  
Other lead lengths on request

## TECHNICAL DATA

<b>Rated voltage</b>	440 VAC 50/60 Hz (ENEC) 480 VAC 50/60 Hz (UL, CSA)
<b>Capacitance range</b>	470 – 4700 pF
<b>Capacitance tolerance</b>	± 20%
<b>Temperature range</b>	-40 to +115 °C
<b>Climatic category IEC</b>	40/115/56/B
<b>Approvals</b>	ENEC, UL, cUL
<b>Dissipation factor tanδ</b>	≤ 1.3 % at 1 kHz
<b>Insulation resistance</b>	≥ 12000 MΩ Measured at 500 VDC after 60 s, +23°C
<b>Resonance frequency</b>	Tabulated self-resonance frequencies $f_0$ refer to 5 mm lead length.
<b>In DC applications</b>	Recommended voltage: ≤ 1500 VDC
<b>Test voltage between terminals</b>	The 100% screening factory test is carried out at 4000 VAC, 50 Hz, 2 s. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test.



## ENVIRONMENTAL TEST DATA

<b>Vibration</b>	IEC 60068-2-6 Test Fc	3 directions at 2 hour each 10 – 500 Hz at 0.75 mm or 98 m/s <sup>2</sup>	No visible damage No open or short circuit
<b>Bump</b>	IEC 60068-2-29 Test Eb	4000 bumps at 390 m/s <sup>2</sup>	No visible damage No open or short circuit
<b>Solderability</b>	IEC 60068-2-20 Test Ta	Solder globule method	Wetting time < 1 s
<b>Active flammability</b>	EN/IEC 60384-14:2005		
<b>Passive flammability</b>	EN/IEC 60384-14:2005		
<b>Humidity</b>	IEC 60068-2-3 Test Ca	+40°C and 90 – 95% R.H.	56 days

## ARTICLE TABLE

Capacitance pF	Max dimensions in mm				Quantity per package			Weight g	f <sub>o</sub> MHz	Max dU/dt V/μs	Article code
	B	H	L	p	R30 pcs	R06 pcs	reel taped pcs				
470	5.5	12.5	18.0	15.0	500	1000	600	1.8	64	2000	PME295RB3470MR30
560	5.5	12.5	18.0	15.0	500	1000	600	1.8	59	2000	PME295RB3560MR30
680	5.5	12.5	18.0	15.0	500	1000	600	1.8	54	2000	PME295RB3680MR30
820	5.5	12.5	18.0	15.0	500	1000	600	1.8	49	2000	PME295RB3820MR30
1000	5.5	12.5	18.0	15.0	500	1000	600	1.8	46	2000	PME295RB4100MR30
1200	6.5	12.5	18.0	15.0	400	800	400	2.3	43	2000	PME295RB4120MR30
1500	6.5	12.5	18.0	15.0	400	800	400	2.3	40	2000	PME295RB4150MR30
1800	6.5	12.5	18.0	15.0	400	800	400	2.3	37	2000	PME295RB4180MR30
2200	6.5	12.5	18.0	15.0	400	800	400	2.3	33	2000	PME295RB4220MR30
2500	7.5	14.5	18.0	15.0	400	600	400	3.0	31	2000	PME295RB4250MR30
2700	7.5	14.5	18.0	15.0	400	600	400	3.0	30	2000	PME295RB4270MR30
3300	7.5	14.5	18.0	15.0	400	600	400	3.0	27	2000	PME295RB4330MR30
3900	8.5	16.0	18.0	15.0	250	400	400	3.5	24	2000	PME295RB4390MR30
4700	8.5	16.0	18.0	15.0	250	400	400	3.5	22	2000	PME295RB4470MR30

## APPROVALS

Certification Body	Specification	
ENEC	EN/IEC 60384-14:2005	
UL	UL 1283 UL 1414 Double protection	(U <sub>R</sub> = 480 VAC) (U <sub>R</sub> = 250 VAC)
cUL recognition	C22.2. No. 1 C22.2. No. 8	(U <sub>R</sub> = 250 VAC) (U <sub>R</sub> = 480 VAC)

## MARKING

- RIFA
- RIFA article code
- Rated capacitance
- Rated voltage
- Climatic category according to IEC 60068-1, appendix A
- Passive flammability class
- Approval marks
- Manufacturing code (year, month)

## ORDERING INFORMATION

The article code for the standard part is given in the article table.  
For other options, see page 11.