

# PME271Y

**RoHS**  
Compliant

- EMI suppressor, class Y2, metallized paper
- 0.001 – 0.15  $\mu\text{F}$ , 250 VAC up to +100 °C, 300 VAC up to +115 °C

- The highest possible safety regarding active and passive flammability.
- Self-extinguishing UL 94V-0 encapsulation material.
- Excellent self-healing properties. Ensures long life even when subjected to frequent overvoltages.
- Good resistance to ionisation due to impregnated dielectric.
- High dU/dt capability.
- Small dimensions.
- Safety approvals for worldwide use.
- The capacitors meet the most stringent IEC humidity class, 56 days.

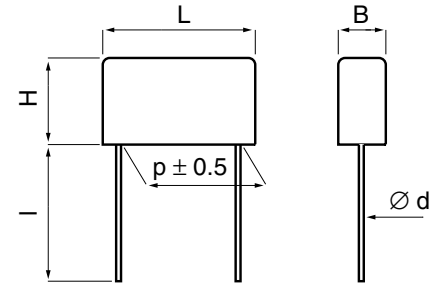
- The impregnated paper ensures excellent stability giving outstanding reliability properties, especially in applications having continuous operation.

## TYPICAL APPLICATIONS

The capacitors are intended for use as interference suppressors in Y2 (line-to-earth) applications.

## CONSTRUCTION

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



d = 0.6 for p = 10.2  
0.8 for p = 15.2, 20.3, 22.5  
1.0 for p = 25.4

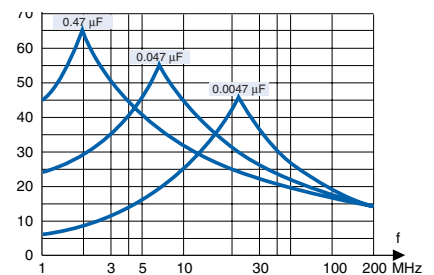
l = standard: 30 +5/-0 mm (code R30)

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

option 2: 30 mm insulated solid leads, ordering code: replace R30 with R300PS in std P/N

## TECHNICAL DATA

	PME271Y	PME271YA-E
Rated voltage VAC, 50/60Hz	250	300
Capacitance range $\mu\text{F}$	0.001–0.1	0.001–0.15
Temperature range °C	-40/+100	-40/+115
Climatic category IEC	40/100/56/B	40/115/56/B
Capacitance tolerance	$\pm 10\%$ for C > 0.1 $\mu\text{F}$ , code K $\pm 20\%$ for C $\leq 0.1$ $\mu\text{F}$ , code M	
Approvals	ENEC, UL, CSA	
Dissipation factor tan $\delta$	$\leq 1.3\%$ at 1 kHz	
Insulation resistance	C $\leq 0.33$ $\mu\text{F}$ $\geq 12000$ M $\Omega$ Measured at 500 VDC after 60 s, +23°C	
In DC applications	Recommended voltage: $\leq 1000$ VDC	
Resonance frequency	Tabulated self-resonance frequencies $f_0$ refer to 5 mm lead lengths.	
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.	



Suppression versus frequency. Typical values.

## ENVIRONMENTAL TEST DATA

Vibration	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
Bump	IEC 60068-2-29, Test Eb	4000 bumps at 390 m/s <sup>2</sup>	No visible damage, No open or short circuit
Solderability	IEC 60068-2-20, Test Ta	Solder globule method	Wetting time for d $\leq 0.8$ < 1 s for d > 0.8 < 1.5 s
Active flammability	EN/IEC 60384-14:2005		
Passive flammability	EN/IEC 60384-14:2005		
Humidity	IEC 60068-2-3, Test Ca	+40°C and 90 – 95% R.H.	56 days

## ARTICLE TABLE

Capacitance $\mu\text{F}$	Max dimensions in mm				Quantity per package reel			Weight g	$f_o$ MHz	Max $dU/dt$ V/ $\mu\text{s}$	Article code
	B	H	L	p	R30 pcs	R06 pcs	taped pcs				
<b>CLASS Y2 250 VAC +100 °C PME271 Y</b>											
0.0010	3.9	7.5	13.5	10.2	1000	2000	700	0.7	53	2000	PME271Y410MR30
0.0015	3.9	7.5	13.5	10.2	1000	2000	700	0.7	44	2000	PME271Y415MR30
0.0022	3.9	7.5	13.5	10.2	1000	2000	700	0.7	37	2000	PME271Y422MR30
0.0033	4.1	8.2	13.5	10.2	1000	2000	600	0.9	30	2000	PME271Y433MR30
0.0047	5.1	10.5	13.5	10.2	800	1600	600	1.2	24	2000	PME271Y447MR30
0.0068	5.2	10.5	18.5	15.2	500	1000	600	1.7	19	1400	PME271Y468MR30
0.010	5.2	10.5	18.5	15.2	500	1000	600	1.7	16	1400	PME271Y510MR30
0.015	5.5	11.0	18.5	15.2	500	1000	500	2.0	13	1400	PME271Y515MR30
0.022	7.3	13.0	18.5	15.2	400	800	400	3.0	9.8	1400	PME271Y522MR30
0.033	7.6	14.0	24.0	20.3	250	1500	250	4.0	7.0	1000	PME271Y533MR30
0.047	9.0	15.0	24.0	20.3	200	1200	250	5.0	6.0	1000	PME271Y547MR30
0.068	11.3	16.5	24.0	20.3	150	1000	180	7.0	4.6	600	PME271Y568MR30
0.10	12.1	19.0	30.5	25.4	100	800		10.0	3.9	400	PME271Y610MR30
<b>CLASS Y2 300 VAC + 115 °C PME271 Y</b>											
0.0010	3.9	7.5	13.5	10.2	1000	2000	700	0.7	53	2000	PME271YA4100MR30
0.0015	3.9	7.5	13.5	10.2	1000	2000	700	0.7	44	2000	PME271YA4150MR30
0.0022	3.9	7.5	13.5	10.2	1000	2000	700	0.7	37	2000	PME271YA4220MR30
0.0025	4.1	8.2	13.5	10.2	1000	2000	600	0.9	35	2000	PME271YA4250MR30
0.0033	4.1	8.2	13.5	10.2	1000	2000	600	0.9	30	2000	PME271YA4330MR30
0.0047	5.1	10.5	13.5	10.2	800	1600	600	1.2	24	2000	PME271YA4470MR30
0.0068	5.2	10.5	18.5	15.2	500	1000	600	1.7	19	1400	PME271YB4680MR30
0.010	5.2	10.5	18.5	15.2	500	1000	600	1.7	16	1400	PME271YB5100MR30
0.015	5.5	11.0	18.5	15.2	500	1000	500	2.0	13	1400	PME271YB5150MR30
0.022	7.3	13.0	18.5	15.2	400	800	400	3.0	9.8	1400	PME271YB5220MR30
0.033	7.6	14.0	24.0	20.3	250	1500	250	4.0	7.0	1000	PME271YC5330MR30
0.047	9.0	15.0	24.0	20.3	200	1200	250	5.0	6.0	1000	PME271YC5470MR30
0.068	11.3	16.5	24.0	20.3	150	1000	180	7.0	4.6	1000	PME271YC5680MR30
0.033	8.0	17.0	27.0	22.5	200	1200	250	5.5	6.8	600	PME271YD5330MR30
0.047	8.0	17.0	27.0	22.5	200	1200	250	5.5	5.8	600	PME271YD5470MR30
0.068	10.0	19.0	27.0	22.5	150	1000	200	7.5	4.8	600	PME271YD5680MR30
0.10	12.0	22.0	27.0	22.5	100	800		10.0	3.8	600	PME271YD6100MR30
0.10	12.1	19.0	30.5	25.4	100	800		10.0	3.9	400	PME271YE6100MR30
0.15	15.3	22.0	30.5	25.4	75	600		15.0	3.1	400	PME271YE6150KR30

## APPROVALS

Certification Body	Specification
ENEC	EN/IEC 60384-14:2005
UL	UL 1283 (U <sub>R</sub> = 250 VAC)
CSA	C 22.2 No. 8

## MARKING

- RIFA
- RIFA article code
- Rated capacitance
- Rated voltage
- Y2
- SH, for self-healing
- 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.