

PME271Y

- EMI suppressor, class Y2, metallized paper
- 0.001 – 0.15 μF , 250 VAC up to +100, 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.

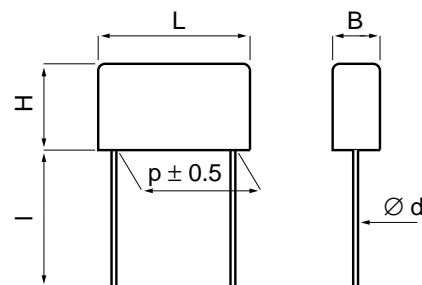
- The impregnated paper ensures excellent stability giving outstanding reliability properties, especially in applications having continuous operation.

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.

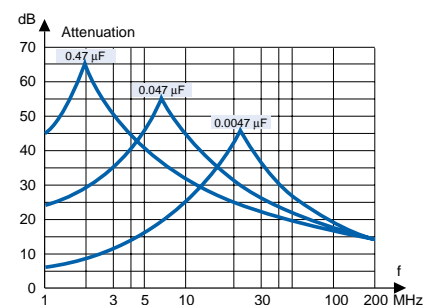


$d = 0.6$ for $p = 10.2$
 0.8 for $p = 15.2, 20.3, 22.5$
 1.0 for $p = 25.4$

$I =$ standard $30 \pm 5/-0$ mm (code R30)
 option short leads, tolerance $\pm 0/-1$ mm (standard 6 mm, code R06)
 Other lead lengths on request.

TECHNICAL DATA

	PME271Y	PME271YA-E
Rated voltage VAC, 50/60Hz	250	300
Capacitance range μF	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	S, N, D, FI, VDE, SEV, IMQ, UL, CSA	
Dissipation factor $\tan\delta$	$\leq 1.3\%$ at 1 kHz	
Insulation resistance	$C \leq 0.33 \mu\text{F}$ $\geq 12000 \text{ M}\Omega$ Measured at 500 VDC after 60 s, +23°C	
In DC applications	Recommended voltage: ≤ 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 ²	No visible damage, No open or short circuit
Bump	IEC 60068-2-29, Test Eb	4000 bumps at 390 m/s ²	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 132400		
Passive flammability	IEC 60384-14 (1993), EN 132400		
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 reel				Weight g	f _o MHz	Max dU/dt V/µs	Approvals								Article code
	B	H	L	p	R30 pcs	R06 pcs	taped pcs					∅	Z	Δ	FI	VDE	SEV	IMQ	UL	
CLASS Y2 250 VAC +100 °C PME271 Y																				
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	19.0	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		
CLASS Y2 300 VAC + 115 °C PME271 Y																				
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/REFERENCE DOCUMENTS

Certification Body	Specification	Approval reference
S	EN 132400	9920003/01 (250 VAC), 9834228/01 (300 VAC)
N	EN 132400	P99101381 (250 VAC)
D	EN 132400	DK99-01992 (250 VAC)
FI	EN 132400	208122 (250 VAC)
VDE	EN 132400	121344 (250 VAC) 118222 (300 VAC)
SEV	EN 132400	99.7 70329.01 (250 VAC)
IMQ	EN 132400	V 4773 (250 VAC)
UL	UL 1283 ($U_R = 250$ VAC)	E 100117 (250 VAC)
CSA	C 22.2 No. 8	53108 (250 VAC)

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)

PACKING

Capacitors in standard design (lead length 30 mm) and with $L < 24$ mm and lead length 5 or 6 mm are packed bulk in a box with dimensions 245 x 145 x 80 mm. Quantity/package as per article table.

Capacitors with $L \geq 24$ mm and lead length 5 or 6 mm are packed on trays piled in a box with dimensions 300 x 260 x 195 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. 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.

ORDERING INFORMATION

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