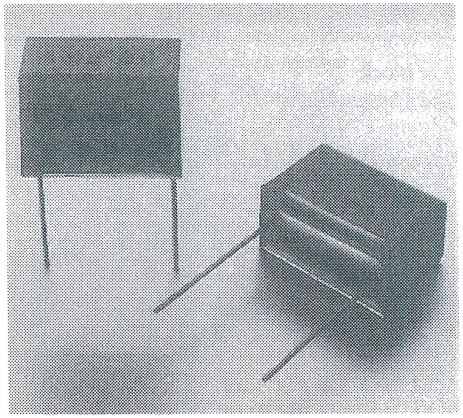
PME 271

- X-capacitor
- Y-capacitor
- Small dimensions



Application

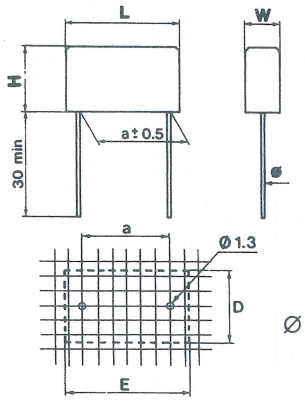
The capacitors are intended for use as interference suppressors in X (across line) and Y (line-earth) applications

Basic data

Capacitance range	X-capacitor 0.001–0.6 µF
	Y-capacitor 0.001–0.047 µF
Rated voltage	250 VAC 50 Hz
Climatic category	IEC 40/085/56
Temperature range	–40 to +85°C
Capacitance tolerance	±10% for C>0.1 µF
	±20% for C≤0.1 µF
Approvals	SEMKO, NEMKO, DEMKO, EI, VDE, SEV, ÖVE, IMQ

Basic design

Multi-layer metallized paper impregnated and encapsulated with epoxy resin.



Ø = 0.6 (23 S.W.G.) for a = 10.2
0.8 (21 S.W.G.) for a = 15.2 and 20.3
1.0 (19 S.W.G.) for a = 25.4

Dimension table

Dimensions in mm				Max space in mm requirements		Weight g	Case code
L_{max}	W_{max}	H_{max}	a	D_{max}	E_{max}		
13.5	3.9	7.5	10.2	4.2	14.5	0.7	A7
13.5	4.1	8.2	10.2	4.4	14.5	0.9	A14
13.5	5.1	10.5	10.2	5.4	14.5	1.2	A8
18.5	5.2	10.5	15.2	5.7	19.5	1.7	B6
18.5	5.5	11.1	15.2	6.0	19.5	2.0	B21
19.0	7.3	13.0	15.2	7.8	20.0	3.0	B5
18.5	7.8	13.5	15.2	8.3	19.5	3.3	B8
24.0	7.6	14.0	20.3	8.1	25.0	4.0	C8
24.0	9.0	15.0	20.3	9.5	25.0	5.0	C7
24.0	11.3	16.5	20.3	11.8	25.0	7.0	C9
30.5	10.5	17.3	25.4	11.2	31.5	8.5	E26
30.5	12.1	19.0	25.4	12.8	31.5	10.0	E4
30.5	15.3	22.0	25.4	16.0	31.5	15.0	E8

Technical data

General data

See "General Technical Information"

Dissipation factor

≤1.3% at 1 kHz

Insulation resistance

C ≤0.33 µF ≥12000 MΩ
C >0.33 µF ≥4000 ΩF
Measured at 500 VDC after 60 sec, 23°C

Resonance frequency

Tabulated self-resonance frequencies f_o refer to 5 mm length of leads

Suppression

The self-inductance of the capacitors is mainly depending upon lead length. for best suppression at high frequencies the length of the leads should therefore be held to a minimum.

RIFA

Article table

C_R µF	Case code	Quantity/ package R30 pcs	Quantity/ package R06 pcs	fo MHz	dU/dt V/µs	Approvals S	N	D	FI	VDE	SEV	ÖVE	IMQ	BSI	UL	CSA	Article number Max
Class X2 250 VAC																	
0.001	A7	1000	2000	53	1200	X	X	X	X	X	X	X	X				PME 271 M410
0.0015	A7	1000	2000	42	1200	X	X	X	X	X	X	X	X				PME 271 M415
0.0022	A7	1000	2000	35	1200	X	X	X	X	X	X	X	X				PME 271 M422
0.0033	A14	1000	2000	29	1200	X	X	X	X	X	X	X	X				PME 271 M433
0.0047	A8	800	1600	21	1200	X	X	X	X	X	X	X	X				PME 271 M447
0.0068	B6	500	1000	19	1200	X	X	X	X	X	X	X	X				PME 271 M468
0.01	B6	500	1000	15	1200	X	X	X	X	X	X	X	X				PME 271 M510
0.015	B6	500	1000	12	1200	X	X	X	X	X	X	X	X				PME 271 M515
0.022	B5	400	800	10	1200	X	X	X	X	X	X	X	X				PME 271 M522
0.033	B5	400	800	8.4	1200	X	X	X	X	X	X	X	X				PME 271 M533
0.047	B5	400	800	7.0	1200	X	X	X	X	X	X	X	X				PME 271 M547
0.068	B8	400	800	5.8	1200	X	X	X	X	X	X	X	X				PME 271 M568
0.1	C8	250	1710	4.9	600	X	X	X	X	X	X	X	X				PME 271 M610
0.15	C7	250	1440	3.8	600	X	X	X	X	X	X	X	X				PME 271 M615
0.18	C9	200	1170	3.2	600					X			X				PME 271 M618
0.22	C9	200	1170	3.0	600	X	X	X	X	X	X	X	X				PME 271 M622
0.27	E26	100	1008	2.8	400					X	X		X				PME 271 M627
0.33	E4	100	864	2.4	400	X	X	X	X	X	X	X	X				PME 271 M633
0.47	E8	75	648	1.9	400	X	X	X	X	X	X	X	X				PME 271 M647
0.6	E8	75	648	1.7	400	X	X	X	X	X	X	X	X				PME 271 M660
Class Y 250 VAC																	
0.001	A7	1000	2000	53	2000	X	X	X	X	X	X	X	X				PME 271 Y410
0.0015	A7	1000	2000	42	2000	X	X	X	X	X	X	X	X				PME 271 Y415
0.0022	A7	1000	2000	35	2000	X	X	X	X	X	X	X	X				PME 271 Y422
0.0025	A14	1000	2000	33	2000	X	X	X		X			X				PME 271 Y425
0.0033	A14	1000	2000	29	2000	X	X	X	X	X	X	X	X				PME 271 Y433
0.0047	A8	800	1600	21	2000	X	X	X	X	X	X	X	X				PME 271 Y447
0.0068	B6	500	1000	19	1400	X	X	X	X	X	X	X	X				PME 271 Y468
0.01	B6	500	1000	15	1400	X	X	X	X	X	X	X	X				PME 271 Y510
0.015	B21	500	1000	13	1400	X	X	X	X	X	X	X	X				PME 271 Y515
0.022	B5	400	800	10	1400	X	X	X	X	X	X	X	X				PME 271 Y522
0.033	C8	250	1710	7.7	1000			X									PME 271 Y533
0.047	C7	250	1440	6.5	1000			X									PME 271 Y547

Approvals/Ref.documents

Country			Specification	Approval reference	
S	=	Sweden	SEN 432901	8421045	1984-08-27
N	=	Norway	NEMKO 132/56	M39851	1971-08-26
			NEMKO 132./76	E12543	1981-01-21
				M39128-30	1971-04-22
D	=	Denmark	Staerkstr°msregl.	44019EC	1977-04-25
			af 1962 afsnit 21	45575EC	1981-01-28
				77228EC	1984-12-14
FI	=	Finland	EMKO DK109/75	035031-05	1979-02-06
				030172.-01...3	1978-08-21
				035031-04	1979-02-06
				066223-01...02	1983-08-10
				079112-01	1985-01-04
				079111-01	1985-01-04
VDE	=	Germany	VDE 0565/Teil 1	5201-A-4670-1014/A1D	1980-09-05
				5201-A-4670-1013/A3E	1981-06-04
				5201-A-4670-1014/A2K	1984-04-17
				5201-A-4670-1013/A4A	1984-04-17
SEV	=	Switzerland	SEV 1017.1959	J1.11/32	1969-04-17
				J1.21/270	1979-02-20
				J1.11/29	1969-03-26
				J1.11/141b	1973-03-16
ÖVE	=	Austria	ÖVE-F22/1974	683-023-00	1983-09-19
IMQ	=	Italy	CEI 40-7/VI-1980	802.022.003	1983-10-10
				802.022.004	1983-10-06

Ordering information

Article number

1 st block
See "Article table"

2nd block
The capacitor is also available with 4, 5 or 6 mm lead length (R04, R05 or R06 in pos 11–13).
Tolerance $^{+0}_{-1}$ mm

P	M	E	2	7	1	Y	4	6	8
1	2	3	4	5	6	7	8	9	10

11	12	13	14	15	16	17	18	19	20