PZB 4002

- Class X2 and Y
- Small dimensions
- Self-extinguishing



Application

As interference suppressor with X2 and Y capacitors in a delta configuration.

Basic data

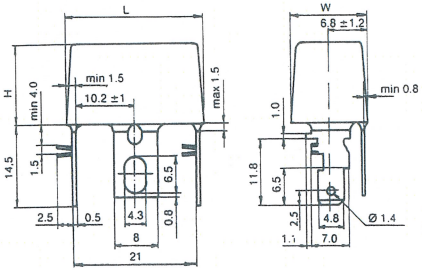
Capacitance X-value	0.1 and 0.15 µF
Capacitance Y-value	2200 and 4700 pF
Rated voltage	250 VAC 50 Hz
Climatic category	IEC 40/100/56
Temperature range	−40 to +100°C
Capacitance tolerance	±20% (Code M in pos 13)
Approvals	SEMKO, NEMKO, DEMKO, EI, VDE, SEV, ÖVE, IMQ

Basic design

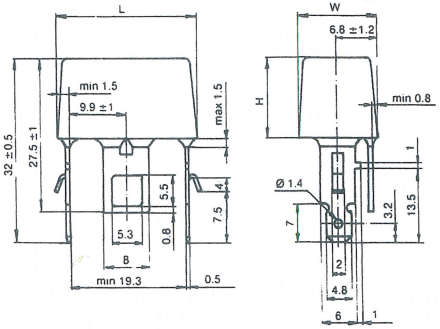
Multi-layer metallized paper impregnated with epoxy. Encapsulation is made in self-extinguishing epoxy.

DELTA INTERFERENCE SUPPRESSORS
PZB 4002
Metallized Paper

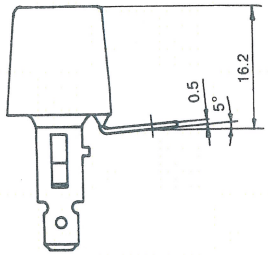
PZB 4002/−−



PZB 4002/−−E



Design S



Dimension table

Dimensions in mm code				Weight	Case
L_{max}	W_{max}	H_{max}	a	g	
25.0	13.5	13.6	21.0	7.9	C15
25.0	13.5	13.6	21.3	8.3	C15
25.0	14.5	14.3	21.0	8.9	C16
25.0	14.5	14.3	21.3	9.3	C16

Technical data

General data

See "General Technical Information"

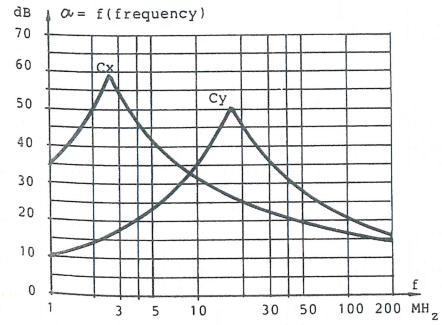
Dissipation factor

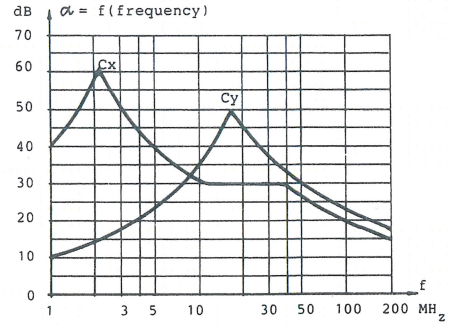
tanδ <1.3% at 1 kHz

Insulation resistance

≥1200 MΩ
Measured at 500 VDC after 60 sec., 23°C

Suppression





RIFA

Article table

C_R C_x	C_R C_Y	Case code	Quantity/ package	Max dU/dt V/µs		Approvals									Article number
µF	pF		pcs	C_x	C_Y	S	N	D	FI	VDE	SEV	ÖVE	IMQ	BSI	UL	CSA	
0.1	2200	C15	150	600	1000	X				X		X	X				PZB 4002/11
0.1	4700	C15	150	600	1000	X	X	X	X	X	X	X	X				PZB 4002/13
0.1	2200	C15	150	600	1000	X				X			X				PZB 4002/11E
0.1	4700	C15	150	600	1000	X				X			X				PZB 4002/13E
0.15	2200	C16	150	600	1000	X				X		X	X				PZB 4002/21
0.15	4700	C16	150	600	1000	X	X	X	X	X	X	X	X				PZB 4002/23
0.15	2200	C16	150	600	1000	X				X			X				PZB 4002/21E
0.15	4700	C16	150	600	1000	X				X	X	X	X				PZB 4002/23E

Approvals/Ref.documents

Country			Specification	Approval reference	
S	=	Sweden	SEN 432901	8323015	1983-08-25
N	=	Norway	NEMKO 132./76	E 12619	1977-03-22
				E 13346	1977-10-17
D	=	Denmark	Stærkstrømsreglementet af 1962 agsnit 21	49653 EC	1977-04-19
FI	=	Finland	EMKO DK 109/75	032285-01	1978-10-11
				035031-01	1979-02-06
VDE	=	Germany	VDE 0565 Teil 1/12.79	5201.2-4670-1016/A1C	1982-10-20
SEV	=	Switzerland	SEV 1017.1959	J1.21/223a	1976-12-21
				J1.21/241b	1977-12-14
				J1.21/548	1984-10-11
ÖVE	=	Austria	ÖVE-F22/1974	683/4-IV	1983-09-01
IMQ	=	Italy	CEI 40-7/VI-1980	802.022.002	1983-10-06

Ordering information

PZB 4002/13 S

See Article table
Add suffix S for earth tab ben according to drawing

RIFA

PZB 4003

- Class X2 and Y
- Small dimensions
- Self extinguishing



Application

As interference suppressor with X2 and Y capacitors in a delta configuration.

Basic data

Capacitance X-value	0.1 and 0.15 µF
Capacitance Y-value	2200 and 4700 pF
Rated voltage	250 VAC 50–60 Hz
Climatic category	IEC 40/100/56
Temperature range	−40 to +100°C
Capacitance tolerance	±20%
Approvals	SEMKO, NEMKO, DEMKO, EI, VDE, SEV, ÖVE, IMQ

Basic design

Multi-layer metallized paper impregnated with epoxy. Encapsulated self-extinguishing epoxy.

Test	IEC-Publ.	Procedure	Requirements
Damp heat steady state	68-2-3 Test Ca	+40°C and 90–95% RH	No visible damage. Insulation resistance ≤ 50% of specified valued in each detail specification. $\frac{\Delta C}{C} \leq \pm 5\%$ for MKT
Endurance, DC	384-1 para 4.23	2000 h at +85°C and 1.25 × × U_R DC	No visible damage $\frac{\Delta C}{C} \leq \pm 5\%$ for MKT Insulation resistance ≥ 50% of stated values in each detail specification.
Endurance AC		1000 h at +85°C and 1.25 × × U_R AC	No visible damage Insulation resistance see detailed specification
Charge and discharge	384-1 para 4.27	10000 pulses and with (10x) dU/dt acc to each detail spec.	No visible damage. $\Delta \tan \delta \leq 3 \times 10^{-3}$ at 10 kHz for MKT $\frac{\Delta C}{C} \leq \pm 3\%$ for MKT Insulation resistance see detailed specification

Marking

The capacitors are marked with:

- rated capacitance
- tolerance on rated capacitance in code acc. to IEC 62
- rated voltage
- code for manufacturing date (month and year)
- type designation
- RIFA-symbol

unless otherwise specified under each detail specification.