PZB300





- Class X2 and Y2
- Compact size
- Excellent self-healing properties. Ensures long life even when subjected to frequent overvoltages.

TYPICAL APPLICATIONS

Interference suppressors with X2 + 2 x Y2 capacitors in a delta configuration.

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

CONSTRUCTION

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

electrical characteristics are checked after

- Self-extinguishing encapsulation.
- High dU/dt capability.
- Good resistance to ionisation due to impregnated dielectric material.





TECHNICAL DATA 275 VAC 50/60 Hz **Rated voltage** Capacitance X value, µF 0.1 and 0.15 Capacitance Y value, pF 2200, 3300 and 4700 **Capacitance tolerance** ± 20% -40 to +100°C **Temperature range Climatic category IEC** 40/100/56/B **Approvals** ENEC, UL, CSA Dissipation factor tan δ \leq 1.3 % at 1 kHz \geq 12000 M Ω Insulation resistance Measured at 500 VDC after 60 s, +23°C Test voltage between terminals The 100% screening factory test is carried out at 2150 VDC for X2 capacitors and at 3000 VDC for Y2 capacitors. The voltage level is selected to meet the requirements in applicable equipment standards. All

ENVIRONMENTAL TEST DATA

the test.

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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 (PZB300MC mounted on P	No visible damage No open or short circuit C-board)	dB 70 60 Attenu
Bump	IEC 60068-2-29 Test Eb	4000 bumps at 390 m/s²	No visible damage No open or short circuit	50 40
Solderability	IEC 60068-2-20 Test Ta	Solder globule method	Wetting time < 1 s	30 20 10
Active flammability	EN 132400			0
Passive flammability	IEC 60384-14 EN 132400			At
Humidity	IEC 60068-2-3 Test Ca	+40°C and 90 – 95% R.H.	56 days	

Suppression vs. frequency





Capao C _x	citance C _v	e Max dimensions in mm		Quanti R30	ty per package R06	Weight	Max V∕µs	dU/dt	Article code		
μÊ	рĖ	В	н	L	р	pcs	pcs	g	C _x	Cy	
0.10	2200	12.5	16.0	24.0	20.0	150	1000	7.5	600	1000	PZB300MC11R30
0.10	3300	12.5	16.0	24.0	20.0	150	1000	7.5	600	1000	PZB300MC12R30
0.10	4700	12.5	16.0	24.0	20.0	150	1000	7.5	600	1000	PZB300MC13R30
0.15	2200	12.5	16.0	24.0	20.0	150	1000	7.5	600	1000	PZB300MC21R30
0.15	3300	12.5	16.0	24.0	20.0	150	1000	7.5	600	1000	PZB300MC22R30
0.15	4700	12.5	16.0	24.0	20.0	150	1000	7.5	600	1000	PZB300MC23R30

APPROVALS

Certification Body	Specification
ENEC	EN 132400 IEC 60384-14, Third edition (2005)
UL	UL 1283
CSA	C 22.2 No. 8

ORDERING INFORMATION

The article code for the standard part is given in the article table. For other options, see page 12.

MARKING

- RIFA
- RIFA article code
- Rated capacitance (X and Y)
- Rated voltage
- X2 and Y2
- SH, for self healing
- Climatic category according to IEC 60068-1, appendix A
 Passive flammability class
- Approval marks Circuit diagram
- Manufacturing code (year, month)

