PZB300



- Delta EMI suppressor, classes X2 and Y2, metallized paper
- 0.1 and 0.15 μF X2, 2200, 3300 and 4700 pF Y2, 275 VAC, +100 °C
- Class X2 and Y2
- Compact size

Rated voltage

Capacitance X value, µF

Capacitance Y value, pF

- · Excellent self-healing properties. Ensures long life even when subjected to frequent overvoltages.
- The impregnated paper ensures excellent stability giving oustanding reliability properties, especially in applications having continuous operation.
- Self-extinguishing encapsulation.
- High dU/dt capability.
- · Good resistance to ionisation due to impregnated dielectric material.

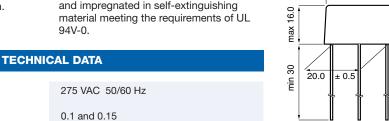
TYPICAL APPLICATIONS

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

CONSTRUCTION

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

2200, 3300 and 4700





-40 to +100°C Temperature range Climatic category IEC 40/100/56/B **Approvals** ENEC, UL, CSA

Dissipation factor tan^δ ≤ 1.3 % at 1 kHz

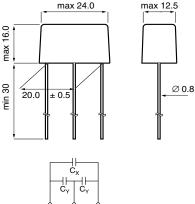
Insulation resistance $\geq 12000~M\Omega$

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 electrical characteristics are checked after

the test.



ENVIRONMENTAL TEST DATA

Vibration IEC 60068-2-6 3 directions at 2 hour each No visible damage Test Fc 10 – 500 Hz at No open or short circuit 0.75 mm or 98 m/s² (PZB300MC.. mounted on PC-board)

IEC 60068-2-29 **Bump** 4000 bumps at No visible damage Test Eb 390 m/s² No open or short circuit

Solderability IEC 60068-2-20 Solder globule Wetting time < 1 s method Test Ta

Active EN/IEC 60384-14:2005 flammability

Passive

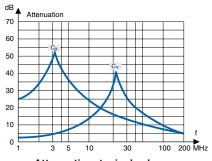
Humidity

EN/IEC 60384-14:2005

flammability

IEC 60068-2-3 +40°C and 56 days Test Ca 90 - 95% R.H.

Suppression vs. frequency



Attenuation, typical values, $0.1 \mu F + 2 \times 2200 pF$

	ARTICLE TABLE										
Capacitance C _x C _y µF pF		Max dimensions in mm				Quantity per package R30 R06		Weight Max dU/dt V/μs			Article code
μÊ	рĖ	В	Н	L	р	pcs	pcs	g	\mathbf{c}^{x}	C	
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/IEC 60384-14:2005							
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 11.

MARKING

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