INTERFERENCE SUPPRESSORS PME 271 Metallized Paper



PME 271

- High dU/dt capability
- Excellent self-healing properties. Ensures long life even when subject to frequent overvoltages
- Good resistance to ionisation due to impregnated dielectric
- Small dimensions
- Approved acc. to French standard— LNZ 4404A

Application

The capacitors are intended for use as interference suppressors in X1, X2 (across-the-line) and Y (line-to-earth) applications.

Specification

Capacitance range

Rated voltage

Climatic category

Temperature range Capacitance tolerance

Approvals

Technical data

Dissipation factor ≤1.3% at 1 kHz

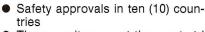
Insulation resistance

 $C \leq 0.33 \,\mu F \geq 12000 \,M\Omega$ $C>0.33\,\mu\text{F}\geq$ 4000 ΩF Measured at 500 VDC after 60 s, +23°C

In DC applications

Recommended voltage: PME 271 M,E \leq 630 VDC PME 271 Y ≤ 1000 VDC

Mechanical data

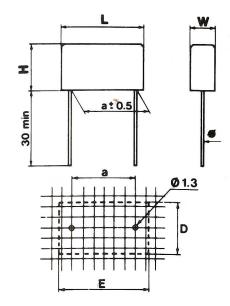


- The capacitors meet the most stringent IEC humidity class, 56 days
- The impregnated paper ensures excellent stability giving outstanding reliability properties, especially in applications having continuous operation

Basic design

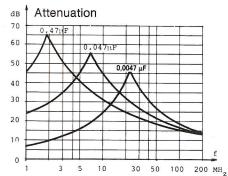
Multi-layer metallized paper impregnated with and encased in epoxy resin.

CX STORE XS GODERA PME 271 M 0/085/56



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

Suppression versus frequency Typical values



Dimensions:	see article tab	le	
Vibration	IEC 68-2-6 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 68-2-29 Test Eb	4000 bumps at 390 m/s²	No visible damage No open or short circuit
Solderability	IEC 68-2-20 Test Ta	Solder globule method	Wetting time for $\emptyset \le 0.8 < 1 \text{ s}$ for $\emptyset > 0.8 < 1.5 \text{ s}$
Humidity	IEC 68-2-3 Test Ca	±40°C and 90—95 % R.H.	56 days



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X2-capacitors 0.001-0.6 µF X1-capacitors 0.01-0.22 µF Y-capacitors 0.001-0.047 µF 250 VAC for PME 271M and PME 271Y 300 VAC for PME 271E, UL=250 VAC IEC 40/085/56 - PME 271M and PME 271Y IEC 40/100/56 - PME 271E -40 to +85°C / -40 to +100°C \pm 10 % for C>0.1 μ F, code K $\pm 20\%$ for C $\leq 0.1\,\mu$ F, code M SEMKO, NEMKO, DEMKO, EI, VDE, SEV, ÖVE, IMQ, UL, CSA

Resonance frequency

Tabulated self-resonance frequencies f. refer to 5 mm lead lengths.

Test voltage between terminals

The RIFA 100 % screening factory test is carried out at 1500-2000 VDC for X2 and X1 capacitors and at 2700 VDC for Y capacitors. The voltages are selected to meet the approval requirements. All electrical characteristics are checked after the voltage tests.