

ERP610

- Ceramic AC Capacitors
- Class X1, 760V AC/Class Y1, 500VAC

TYPICAL APPLICATIONS

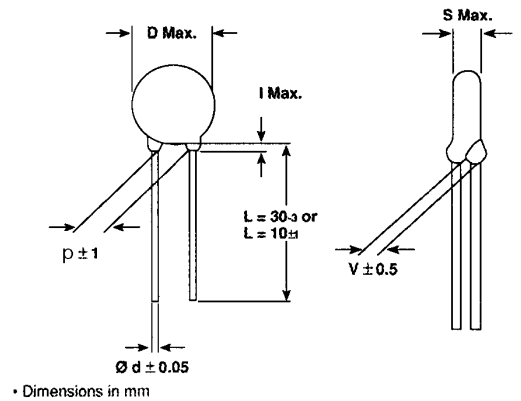
For worldwide use as electromagnetic interference suppressor in all X1 and Y1 applications.

CONSTRUCTION

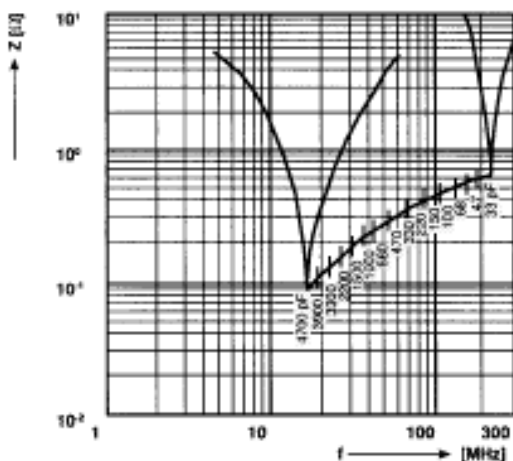
Disc capacitors with epoxy coating.
Epoxy dipped, insulating, flame retarding acc. to UL 94V-0.

TECHNICAL DATA

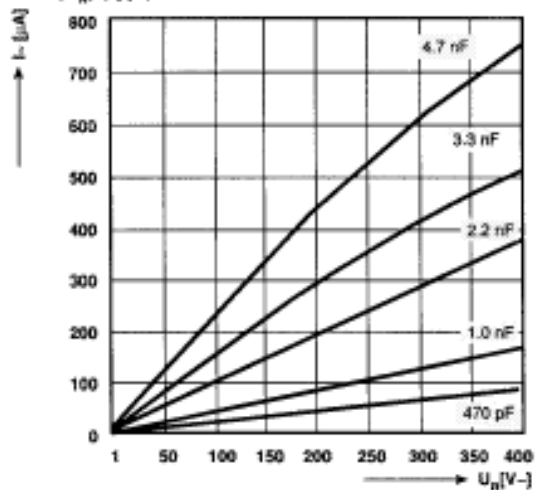
Rated voltage U_R (IEC 60384-14.2)	X1 760 VAC, 50 Hz	Y1 500 VAC, 50 Hz
Capacitance range	33-4700 pF	
Capacitance tolerance	± 10%, ± 20%	
Temperature range	(-40 to +125)°C	
Climatic category	IEC 40/125/21	
Approvals	VDE, UL, CSA	
Dissipation factor $\tan\delta$	≤ 25 • 10 ⁻³	
Test voltage between terminals	Component test: 4000 VAC, 50 Hz, 2 s As repeated test admissible only once with 3600 VAC, 50 Hz, 2 s Random sampling test (destructive test): 4000 VAC, 50 Hz, 60 s	
Dielectric strength of body insulation	4000 VAC, 50 Hz, 60 s (destructive test)	
Insulation resistance	≥ 10 • 10 ⁹ Ω	
Taping and special lead configurations	On request	



Impedance (Z) as a function of frequency (f) at $T_a = 20^\circ\text{C}$ (average). Measurement with lead length 6mm.



$I = f(U_n)$ (typ.)



ARTICLE TABLE

Capacitance pF	Dimensions D x s Max (mm)	p±1* (mm)	d±0.05* (mm)	V±0.5* (mm)	Article code 1 st block	Ceramic dielectric
33	8.0 x 6.0	12.5	0.6	1.9	ERP610VH2330M	N 750
47	8.0 x 6.0	12.5	0.6	2.3	ERP610VH2470M	K 1200
68	8.0 x 6.0	12.5	0.6	2.3	ERP610VH2680M	K 1200
100	8.0 x 6.0	12.5	0.6	2.3	ERP610VH3100M	K 1500
150	8.0 x 6.0	12.5	0.6	2.3	ERP610VH3150M	K 2000
220	8.0 x 6.0	12.5	0.6	2.3	ERP610VH3220M	K 2000
330	8.0 x 6.0	12.5	0.6	2.5	ERP610VH3330M	K 2000
470	8.0 x 5.0	12.5	0.6	2.1	ERP610VH3470M	K 4000
680	8.0 x 5.0	12.5	0.6	2.1	ERP610VH3680M	K 4000
1000	9.0 x 5.0	12.5	0.8	2.1	ERP610VH4100M	K 4000
1500	10.0 x 5.0	12.5	0.8	2.1	ERP610VH4150M	K 4000
2200	12.0 x 5.0	12.5	0.8	2.1	ERP610VH4220M	K 4000
2700	13.0 x 5.0	12.5	0.8	2.1	ERP610VH4270M	K 4000
3300	15.0 x 5.0	12.5	0.8	2.1	ERP610VH4330M	K 4000
3900	15.0 x 5.0	12.5	0.8	2.1	ERP610VH4390M	K 4000
4700	17.0 x 5.0	12.5	0.8	2.1	ERP610VH4470M	K 4000

* Standard lead configuration, other lead spacing and diameter available on request.

APPROVALS/REFERENCE DOCUMENTS

Certification Body	Specification	Approval Reference
VDE UL	EN 132400 UL 1414 (U _R = 250 VAC)	40001993, 40001996 E73869
CSA (cUL recognition)	C 22.2 No. 1-M90 (U _R =250 VAC)	216038

P=pending

MARKING

D ≤ 9 mm



D ≥ 10 mm



All approval marks are also shown on the label.

ORDERING INFORMATION

Article code

1st block

See article table
Pos. 13 Capacitance tolerance code:
M = ± 20% standard
K = ± 10% option

Note

For lead forming and taping options see the "General Information" pages.

PACKING

The box dimensions for bulk packaging are 245 x 145 x 80 mm. Quantity/package as per article table.

Reels with taped capacitors are packed 10 in a box with dimension 370 x 370 x 560 mm. Quantity/reel according to article table. The standard quantity/reel is for 360 mm reel. If 500 mm reel is required, it must be specified when ordering and the quantity is 2 x the given quantity.

DATA SHEET ERP610

Specifications subject to change without notice

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