

ERO610

- Ceramic AC Capacitors
- Class X1, 440V AC/Class Y2, 250VAC

TYPICAL APPLICATIONS

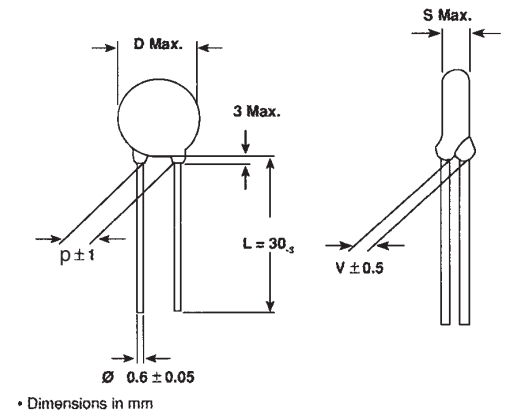
For worldwide use as electromagnetic interference suppressor in all X1 and Y2 applications.

CONSTRUCTION

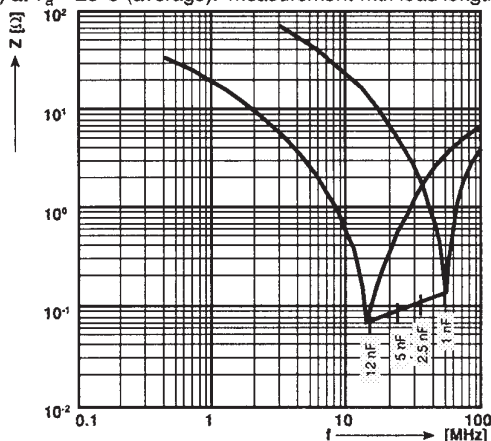
Disc capacitors with epoxy coating.
 Epoxy dipped, insulating, flame retarding according to UL 94V-0.

TECHNICAL DATA

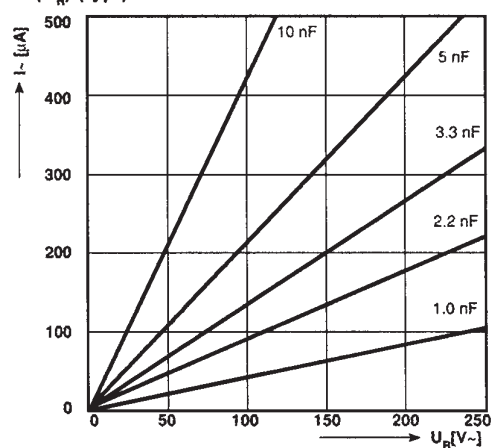
	X1 440 VAC, 50 Hz	Y2 250 VAC, 50 Hz
Rated voltage U_R (IEC 60384-14.2)		
Capacitance range	1000-12000 pF	
Capacitance tolerance	± 20%	
Temperature range	(-40 to +125)°C	
Climatic category	IEC 40/125/21	
Approvals	VDE, UL, CSA	
Dissipation factor $\tan\delta$	$\leq 25 \cdot 10^{-3}$	
Test voltage between terminals	Component test: 5 mm: 2200 VAC, 50 Hz, 2 s 7.5 mm: 2500 VAC, 50 Hz, 2 s As repeated test admissible only once with 2000 VAC, 50 Hz, 2 s Random sampling test (destructive test): 1500 VAC, 50 Hz, 60 s	
Dielectric strength of body insulation	2000 VAC, 50 Hz, 60 s (destructive test)	
Insulation resistance	$\geq 6 \cdot 10^9 \Omega$	
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.



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



Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute – and we specifically disclaim – any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

ARTICLE TABLE

Capacitance pF	D x s Max (mm)	Quantity per package			Article code 1 st block	Ceramic dielectric
		p±1* (mm)	d±0.05* (mm)	V±0.5* (mm)		
1000	6.5 x 4.5	5	0.6	1.4	ERO610RJ4100M	K 4000
1500	8.0 x 4.5	5	0.6	1.4	ERO610RJ4150M	K 4000
1800	8.0 x 4.5	5	0.6	1.4	ERO610RJ4180M	K 4000
2200	9.0 x 4.5	5	0.6	1.4	ERO610RJ4220M	K 4000
2500	9.0 x 4.5	5	0.6	1.4	ERO610RJ4250M	K 4000
3300	10.0 x 4.5	7.5	0.6	1.4	ERO610RK4330M	K 4000
4700	12.0 x 4.5	7.5	0.6	1.4	ERO610RK4470M	K 4000
5000	12.0 x 4.5	7.5	0.6	1.4	ERO610RK4500M	K 4000
6800	17.0 x 4.5	7.5	0.6	1.6	ERO610RK4680M	K 4000
8200	17.0 x 4.5	7.5	0.6	1.6	ERO610RK4820M	K 4000
10000	21.0 x 4.5	7.5	0.6	1.6	ERO610RK5100M	K 4000
12000	21.0 x 4.5	7.5	0.6	1.6	ERO610RK5120M	K 4000

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

APPROVALS/REFERENCE DOCUMENTS

Certification Body	Specification	Approval reference
VDE	EN 132400	40001990
UL	UL 1414 (U _R = 250 VAC)	E73869
CSA (cUL recognition)	C 22.2 No. 1-M90 (U _R =250 VAC)	216038

MARKING

3.3 nF to 12 nF

1 nF to 2.5 nF



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

2nd block

See separate brochure:
Ceramic Disc, EMI and Safety Capacitors,
General information
Page 5

See article table and page 19 in the KEMET Film Capacitors 2003 catalogue. For options, see Ceramic Disc, EMI and Safety Capacitors, General information, Page 5.

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 ERO610

Specifications subject to change
without notice

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