ERO610

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

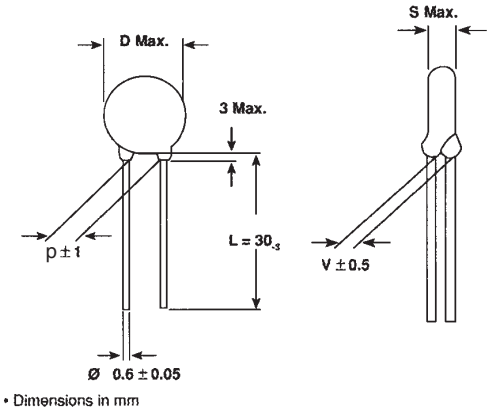
The Capacitance Company
KEMET
CHARGED.®

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.

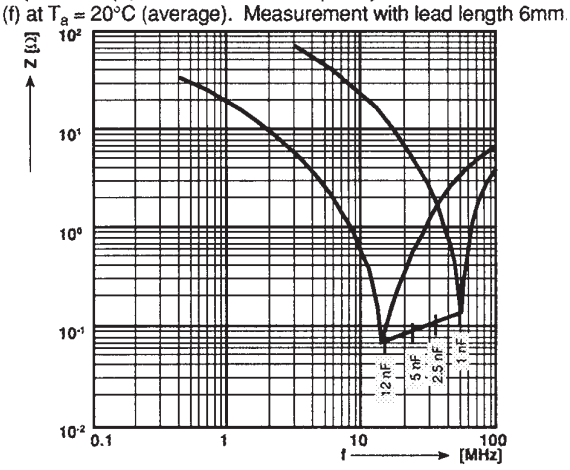


• Dimensions in mm

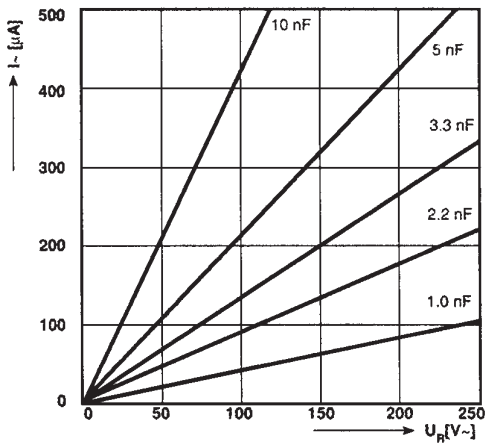
TECHNICAL DATA

	X1	Y2
Rated voltage U_R (IEC 60384-14.2)	440 VAC, 50 Hz	250 VAC, 50 Hz
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 tanδ	$\leq 25 \bullet 10^{-3}$	
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	$\geq 6 \bullet 10^9\ \Omega$	
Taping and special lead configurations	On request	

Impedance (Z) as a function of frequency (f) at T_a = 20°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 p±1* (mm)	d±0.05* (mm)	V±0.5* (mm)	Article code 1 st block	Ceramic dielectric
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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