

Suppression Capacitors
Class X1 AC 440 V
Class Y2 AC 250 V

Design:

Disc capacitor with epoxy coating

Rated Voltage U_R :

X1 \Rightarrow AC 440 V; 50 Hz
Y2 \Rightarrow AC 250 V; 50/60 Hz

Test Voltage U_T :

Component test:
AC 2500 V / 50 Hz, 2 s
As repeated voltage test admissible only once at: AC 2250 V / 50 Hz, 2 s

Random Sampling Test:

AC 2500 V / 50 Hz, 60 s

Voltage Proof of Coating:

AC 2500 V / 50 Hz, 60 s

Dissipation Factor $\tan\delta$:

$\leq 25 \times 10^{-3}$

Insulation Resistance R_i :

for $C \leq 0,33 \mu\text{F}$
 $\leq 6 \times 10^9 \Omega$

Temperature Characteristic acc. to EN 130 700:

2 E 3

Category Temperature Range δ_u :

(-40 ... + 85) °C acc. to IEC 384-14/1
(-40 ... + 125) °C acc. to IEC 384-14/2

Climatic Testing Class acc. to EN 60068-1:

40/085/21 acc. to IEC 384-14/1
40/125/21 acc. to IEC 384-14/2

Coating:

Epoxy, dipped, insulating, flame retarding (UL 94V0)

Important:

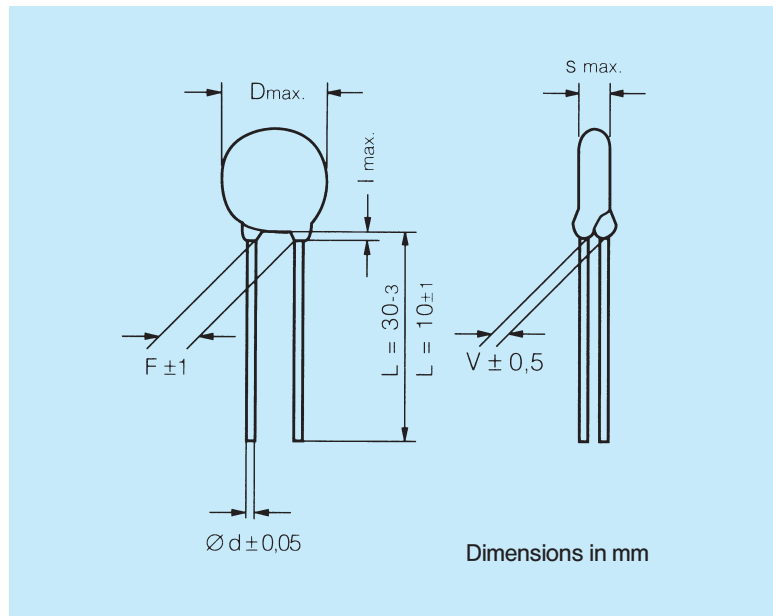
Minimum thickness of 0,4 mm for the epoxy coating is now confirmed by the VDE-approval board in Germany

Taping:

on request

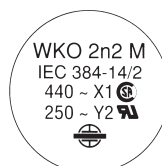
Special Lead Configurations:

on request



Marking:

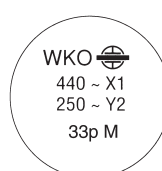
D ≥ 10 mm



additional on the label:
all approval marks

Marking:

D ≤ 9 mm



additional on the label:
all approval marks

Soldering Recommendations:

When soldering this component to a PC board, the solder heat resistance specification of the capacitor must not be exceeded.

Subjecting this component to excessive heating could melt the internal solder junction and may cause thermal stress that can crack the ceramic element.

In order to keep a sufficient distance between solder wave and the capacitor element we recommend to use capacitor styles with crimped leads.

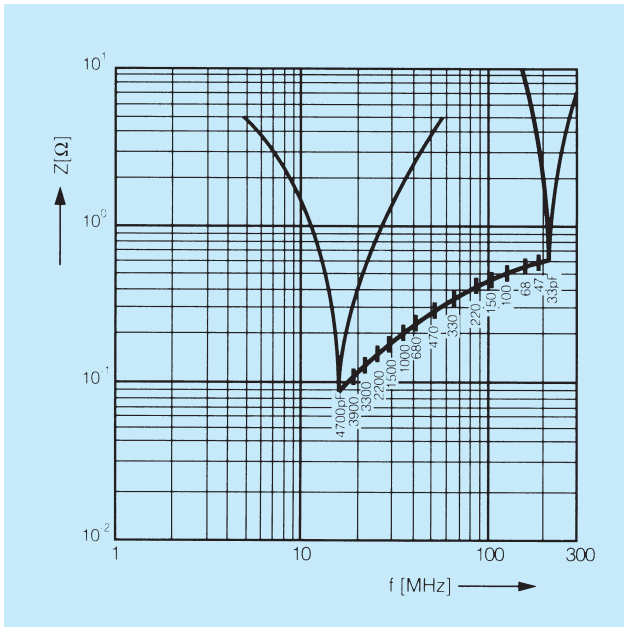


WKO

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 Class Y2 AC 250 V

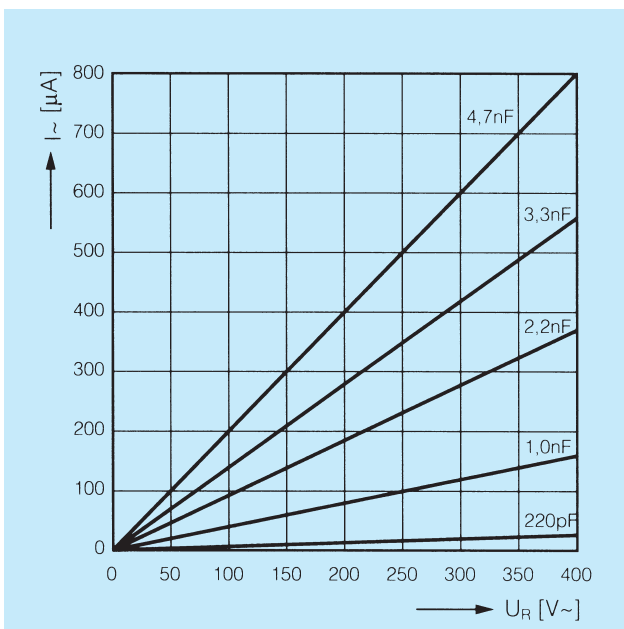
Rated Voltage: AC 440 V (X1); AC 250 V (Y2)							
Capacitance pF	D x s (max.) in mm	F * ± 1 (mm)	d ± 0,05 (mm)	V ± 0,5 (mm)	Ordering Code **	Dielectric	
33	7,0 x 4,5	7,5	0,6	1,6	WKO330 * CPC * 0K	N 750	
47	7,0 x 4,5				WKO470 * CPC * 0K		
68	7,0 x 4,5			1,9	WKO680 * CPC * 0K	K 2000	
100	7,0 x 4,5				WKO101 * CPC * 0K		
150	7,0 x 4,5				WKO511 * CPC * 0K		
220	7,0 x 4,5				WKO221 * CPC * 0K		
330	7,0 x 4,5				WKO331 * CPC * 0K		
470	7,0 x 4,5				2,0		WKO471 * CPC * 0K150

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Impedance (Z) as a function of frequency (f) at $T_a = 20\text{ }^\circ\text{C}$ (Average)

Measurement with lead length 6 mm



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

Ordering Example:

WKO	102	"M"	CQ	C" F"0	K
Series	C-Value	Tolerance	Rated Voltage	Design	Internal code