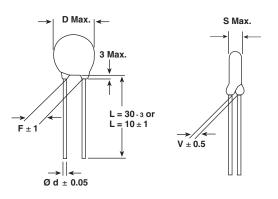
### Vishay Draloric

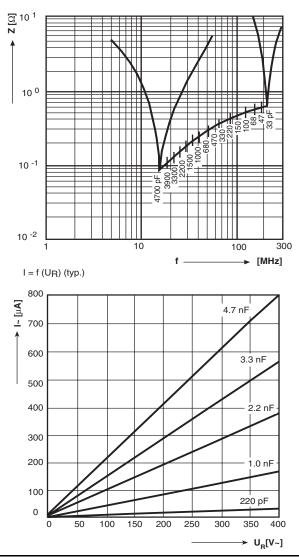


# Ceramic AC Capacitors Class X1, 440 VAC/Class Y2, 300 VAC



• Dimensions in mm

Impedance (Z) as a function of frequency (f) at Ta = 20  $^{\circ}$ C (average). Measurement with lead length 50 mm.



#### **DESIGN:**

Disc capacitors with epoxy coating

#### RATED VOLTAGE U<sub>R</sub>:

(X1):	440 V <sub>AC</sub> , 50 Hz (IEC 60384-14.2)
(12)	200 V 50 Hz (IEC 60294 14 2)

(Y2): 300 V<sub>AC</sub>, 50 Hz (IEC 60384-14.2) 250 V<sub>AC</sub>, 60 Hz (UL1414, CSA C22.2)

#### DIELECTRIC STRENGTH BETWEEN LEADS:

Component test: 2600 V<sub>AC</sub>, 50 Hz, 2 s As repeated test admissible only once with 2340 V<sub>AC</sub>, 50 Hz, 2 s Random sampling test (destructive test): 2600 V<sub>AC</sub>, 50 Hz, 60 s

#### DIELECTRIC STRENGTH OF BODY INSULATION:

2600 V<sub>AC</sub>, 50 Hz, 60 s (destructive test)

#### DISSIPATION FACTOR tan $\delta$ :

 $\leq 25 \bullet 10^{\text{-}3}$ 

#### **INSULATION RESISTANCE Ris:**

 $\geq$  6 • 10  $^9$   $\Omega$ 

#### CATEGORY TEMPERATURE RANGE 9<sub>A</sub>:

(- 40 to + 125) °C

#### CLIMATIC CATEGORY ACC. TO EN60068-1:

40/125/21

## COATING:

Epoxy, dipped, insulating, flame retarding acc. to UL 94V-0

#### TAPING AND SPECIAL LEAD CONFIGURATIONS:

On request

#### MARKING:



WKO 33 pF to 1.0 nF



WKO 1.5 nF to 4.7 nF

All approval marks are also shown on the label.

RoHS COMPLIANT

Document Number: 22204 Revision: 31-Jan-06



# $\begin{array}{c} \mbox{Ceramic AC Capacitors} \\ \mbox{Class X1, 440 V}_{AC}\mbox{Class Y2, 300 V}_{AC} \end{array}$

Vishay Draloric

CAPACITA	CAPACITANCE** TOL.		Dxs	F ± 1*	d ± 0.05*	V ± 0.5*	
(pF)	-	(%)	(mm)	(mm)	(mm)	(mm)	ORDERING CODE
CLASS 1	N750						•
33		± 10 %, ± 20 %	8.0 x 5.0	7.5	0.6	1.6	WKO330DCPDDDKR
47		± 10 /8, ± 20 /8	8.0 x 5.0				WKO470□CP□□□KR
CLASS 2	K1200						
68		± 10 %, ± 20 %	8.0 x 5.0	7.5	0.6	1.9	
CLASS 2	K1500						
100		± 10 %, ± 20 %	8.0 x 5.0	7.5	0.6	1.9	WKO101□CP□□□KR
CLASS 2	K2000						
150			8.0 x 5.0	7.5	0.6	1.9	
220		± 10 %, ± 20 %	8.0 x 5.0				WKO221□CP□□□KR
330			8.0 x 5.0				WKO331DCPDDKR
CLASS 2	K4000						
470			8.0 x 5.0		0.6	2.0	WKO471□CP□□□KR
680			9.0 x 5.0	7.5	0.0		
1000			10.0 x 5.0		0.8	1.6	WKO102DCPDDDKR
1500		± 10 %, ± 20 %	12.0 x 5.0				WKO152CCPCCKR
2200		$\pm 10 / 0, \pm 20 / 0$	13.0 x 5.0				
3300		] [	15.0 x 5.0		0.0	1.0	
3900			16.0 x 5.0				WKO392DCPDDDKR
4700			18.0 x 5.0	12.5			WKO472DCPDDDKR

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

\*\* Capacitance values from 1000 pF to 4700 pF: The alternative usage of smaller VKO series is recommended for new application.

ORDERING CODE				
	7th digit	Capacitance Tolerance:	± 10 % = K ± 20 % = M	
	10th to 12th digit	Lead Configuration (see General Information)		
R	14th digit	RoHS Compliant Component		

<b>APPROVALS</b>	6
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AFFROVALS								
	14 / 2 <sup>nd</sup> Issue (1993) 1994) - Safety Tests	•	) - Safety Tests					
That approval t	ogether with the CB Tes	t Certificate substitu	ites the national appr	oval of the following n	ations:			
Belgium	France	Italy	Austria	China	Japan	Spain		
Denmark	Greece	Luxembourg	Portugal	Singapore	Poland	United Kingdom		
Germany	Ireland	Netherlands	Sweden	Slovenia	Hungaria	Czech Republic		
Finland	Iceland	Norway	Switzerland	Korea	Israel			
	Y2 - Capacitor: CI	3-Test Certificate:	DE-1-11134-A1	33 pF 4.7 nF	300 Vac			
	X1 - Capacitor: CI	3-Test Certificate:	DE-1-11134-A1	33 pF 4.7 nF	440 Vac	DE		
	Minimum thicknes	s of insulation: 0.4 m	ım					
Underwriters La	boratories Inc.							
UL 1414	Line-by-pass compo	nent.		33 pF 4.7 nF	250 Vac			
	Agency Files / Licen	ces	E 183 844 V1 S3			C <b>The</b> US		
Canadian Stand	lards Association							
CSA C22.2	Line-by-pass compo	nent.		33 pF 4.7 nF	250 Vac			
No 1-98	Agency Files / Licen	ces	E 183 844 V1 S3					
ORDERIN	G INFORMATIO	N						
<u>WKO</u>	<u>392</u>	<u>K</u>	CP	<u>CJ0</u>	K	<u>R</u>		
SERIES	CAP. VALUE	TOLERANCE	RATED VOLTAGE	LEAD CONFIGURATION	INTERNAL CODE	RoHS COMPLIANT		

Document Number: 22204 Revision: 31-Jan-06 For technical questions, contact <a href="mailto:slcap@vishay.com">slcap@vishay.com</a>



Vishay

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