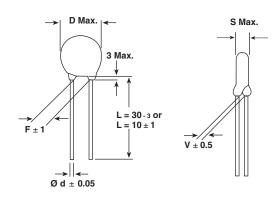
### Vishay Draloric

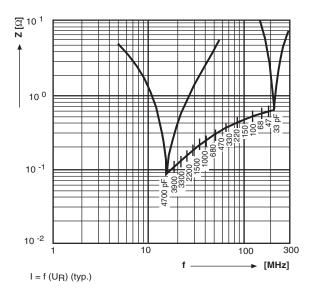


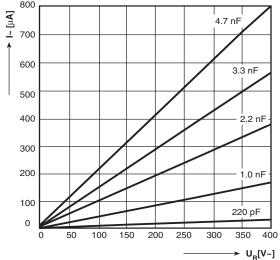
# Ceramic AC Capacitors Class X1, 440 V<sub>AC</sub>/Class Y2, 300 V<sub>AC</sub>



• Dimensions in mm

Impedance (Z) as a function of frequency (f) at Ta = 20 °C (average). Measurement with lead length 50 mm.





#### **DESIGN:**

Disc capacitors with epoxy coating

# RoHS

#### RATED VOLTAGE UR:

(X1): 440 V<sub>AC</sub>, 50 Hz (IEC 60384-14.2) (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:  $2600\ V_{AC},\ 50\ Hz,\ 2\ s$  As repeated test admissible only once with  $2340\ V_{AC},\ 50\ Hz,\ 2\ s$  Random sampling test (destructive test):  $2600\ V_{AC},\ 50\ Hz,\ 60\ s$ 

#### **DIELECTRIC STRENGTH OF BODY INSULATION:**

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

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

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

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

 $\geq$  6 • 10<sup>9</sup>  $\Omega$ 

#### 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.

Document Number: 22204 Revision: 31-Jan-06



# Ceramic AC Capacitors Class X1, 440 $V_{AC}$ /Class Y2, 300 $V_{AC}$

## Vishay Draloric

ORDERING INFORMATION, CERAMIC X1 / Y2 CAPACITORS WKO								
CAPACITANCE** (pF)		TOL. (%)	D x s (mm)	F ± 1* (mm)	d ± 0.05* (mm)	V ± 0.5* (mm)	ORDERING CODE	
CLASS 1	N750				•			
33		± 10 %, ± 20 %	8.0 x 5.0	7.5	0.6	1.6	WKO330□CP□□□KR	
47		± 10 /6, ± 20 /6	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	WKO680□CP□□□KR	
CLASS 2	K1500				•			
100		± 10 %, ± 20 %	8.0 x 5.0	7.5	0.6	1.9	WKO101□CP□□□KR	
CLASS 2	CLASS 2 K2000							
150			8.0 x 5.0	7.5	0.6	1.9	WKO151□CP□□□KR	
220		± 10 %, ± 20 %	8.0 x 5.0				WKO221□CP□□□KR	
330			8.0 x 5.0				WKO331□CP□□□KR	
CLASS 2 K4000								
470		. 10 % . 20 %	8.0 x 5.0		0.6	2.0	WKO471□CP□□□KR	
680			9.0 x 5.0	0			WKO681□CP□□□KR	
1000			10.0 x 5.0	7.5			WKO102□CP□□□KR	
1500			12.0 x 5.0				WKO152□CP□□□KR	
2200 3300 3900		- ± 10 %, ± 20 % -	13.0 x 5.0		0.8	1.6	WKO222□CP□□□KR	
			15.0 x 5.0				WKO332□CP□□□KR	
			16.0 x 5.0				WKO392□CP□□□KR	
4700	0		18.0 x 5.0	12.5			WKO472□CP□□□KR	

<sup>\*</sup> Standard lead configuration, other lead spacing and diameter available on request.

<sup>\*\*</sup> 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				

APPROVALS								
	14 / 2 <sup>nd</sup> Issue (19 (1994) - Safety Te	93) incl. Am. 1 (1995 ests	) - Safety Tests					
That approval	together with the CE	Test Certificate substitu	ites the national appro	val of the following r	nations:			
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			
	X1 - Capacito	r: CB-Test Certificate: r: CB-Test Certificate: :ness of insulation: 0.4 m	DE-1-11134-A1 DE-1-11134-A1 nm	33 pF 4.7 nF 33 pF 4.7 nF	300 Vac 440 Vac	DYE		
Underwriters L	aboratories Inc.							
UL 1414	Line-by-pass co	mponent.		33 pF 4.7 nF	250 Vac			
	Agency Files / L	icences	E 183 844 V1 S3			c <b>AL</b> us		
Canadian Stan	dards Association							
CSA C22.2	Line-by-pass co	mponent.		33 pF 4.7 nF	250 Vac			
No 1-98	Agency Files / L	icences	E 183 844 V1 S3			c <b>FL</b> us		

ORDERING INFORMATION							
<u>WKO</u>	<u>392</u>	<u>K</u>	<u>CP</u>	<u>CJ0</u>	<u>K</u>	<u>R</u>	
SERIES	CAP. VALUE	TOLERANCE	RATED VOLTAGE	LEAD CONFIGURATION	INTERNAL CODE	RoHS COMPLIANT	

Document Number: 22204 Revision: 31-Jan-06





Vishay

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