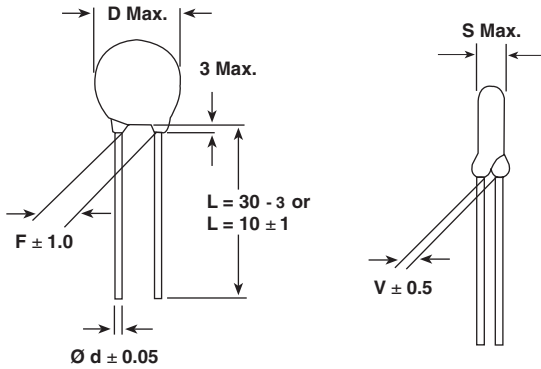
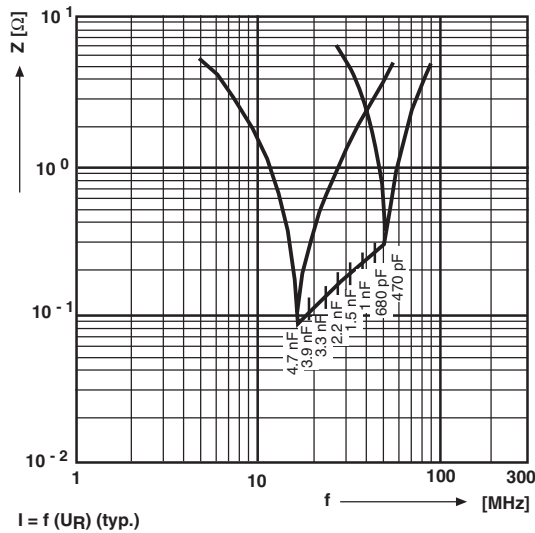


## Ceramic AC Capacitors Class X1, 760 V<sub>AC</sub>/Class Y1, 500 V<sub>AC</sub>

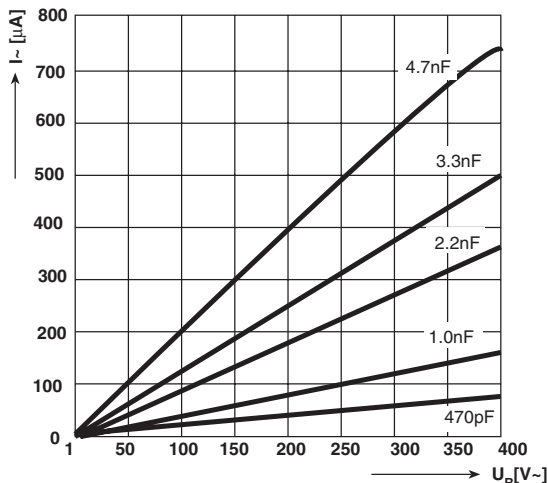


• Dimensions in mm

Impedance (Z) as a function of frequency (f) at T<sub>a</sub> = 20 °C (average). Measurement with lead length 6 mm.



I = f (U<sub>R</sub>) (typ.)



**DESIGN:**

Disc capacitors with epoxy coating



**RoHS  
COMPLIANT**

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

- (X1): 760 V<sub>AC</sub>, 50 Hz (IEC 60384-14.2)
- (Y1): 500 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:
- 4000 V<sub>AC</sub>, 50 Hz, 2 s
- As repeated test admissible only once with
- 3600 V<sub>AC</sub>, 50 Hz, 2 s
- Random sampling test (destructive test):
- 4000 V<sub>AC</sub>, 50 Hz, 60 s

**DIELECTRIC STRENGTH OF BODY INSULATION:**

- 4000 V<sub>AC</sub>, 50 Hz, 60 s (destructive test)

**DISSIPATION FACTOR TAN δ:**

≤ 25 • 10<sup>-3</sup>

**INSULATION RESISTANCE R<sub>is</sub>:**

≥ 10 • 10<sup>9</sup> Ω

**CATEGORY TEMPERATURE RANGE θ<sub>A</sub>:**

(- 40 to + 125) °C

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

40/125/21

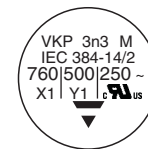
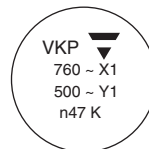
**COATING:**

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

**TAPING AND SPECIAL LEAD CONFIGURATIONS:**

On request

**MARKING:**



VKP 470 pF to 1.5 nF

VKP 2.2 nF to 4.7 nF

All approval marks are also shown on the label.



Ceramic AC Capacitors  
Class X1, 760 V<sub>AC</sub>/Class Y1, 500 V<sub>AC</sub>

Vishay Draloric

<b>ORDERING INFORMATION, CERAMIC X1 / Y1 CAPACITORS VKP</b>							
CAPACITANCE** (pF)	TOL. (%)	D x s (mm)	F ± 1* (mm)	d ± 0.05* (mm)	V ± 0.5* (mm)	ORDERING CODE	
<b>CLASS 2 K4000</b>							
470	± 10 %	8.0 x 5.0	12.5	0.6	2.1	VKP471□CQ□□□KR	
680		8.0 x 5.0				VKP681□CQ□□□KR	
1000		9.0 x 5.0				VKP102□CQ□□□KR	
1500		10.0 x 5.0				VKP152□CQ□□□KR	
2200		12.0 x 5.0				VKP222□CQ□□□KR	
2700		± 20 %		13.0 x 5.0		0.8	VKP272□CQ□□□KR
3300				15.0 x 5.0			VKP332□CQ□□□KR
3900				15.0 x 5.0			VKP392□CQ□□□KR
4700				17.0 x 5.0			VKP472□CQ□□□KR

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

\*\* When capacitance values less than 470 pF are required, the usage of WKP series is recommended.

<b>ORDERING CODE</b>			
□	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>						
<b>IEC 60384 - 14 / 2<sup>nd</sup> Issue (1993) incl. Am. 1 (1995) - Safety Tests</b>						
<b>EN 132 400 (1994) - Safety Tests</b>						
That approval together with the CB Test Certificate substitutes the national approval of the following 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	
Y1 - Capacitor: CB-Test Certificate: DE-1-11001-A1				470 pF ... 4.7 nF	500 Vac	
X1 - Capacitor: CB-Test Certificate: DE-1-11001-A1				470 pF ... 4.7 nF	760 Vac	
Minimum thickness of insulation: 0.4 mm						
Underwriters Laboratories Inc.						
UL 1414	Across-the-line, Antenna-coupling and Line-by-pass component.			470 pF ... 4.7 nF	250 Vac	
	Agency Files / Licences			E 183 844 V1 S5		
Canadian Standards Association						
CSA C22.2	Across-the-line, Antenna-coupling and Line-by-pass component.			470 pF ... 4.7 nF	250 Vac	
No 1-94	Agency Files / Licences			E 183 844 V1 S5		

<b>ORDERING INFORMATION</b>						
<b>VKP</b>	<b>102</b>	<b>M</b>	<b>CQ</b>	<b>ED0</b>	<b>K</b>	<b>R</b>
SERIES	CAP. VALUE	TOLERANCE	RATED VOLTAGE	LEAD CONFIGURATION	INTERNAL CODE	RoHS COMPLIANT



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