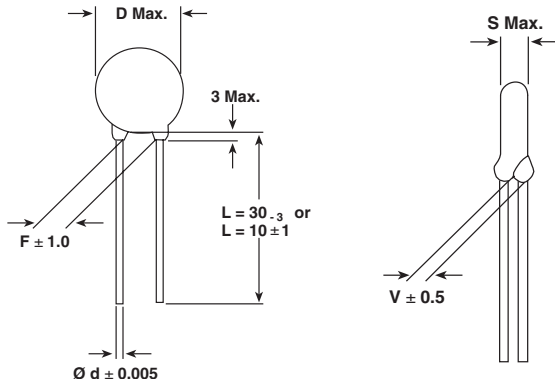
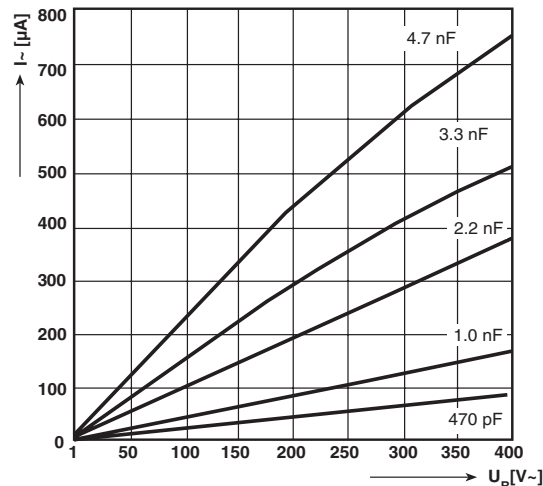
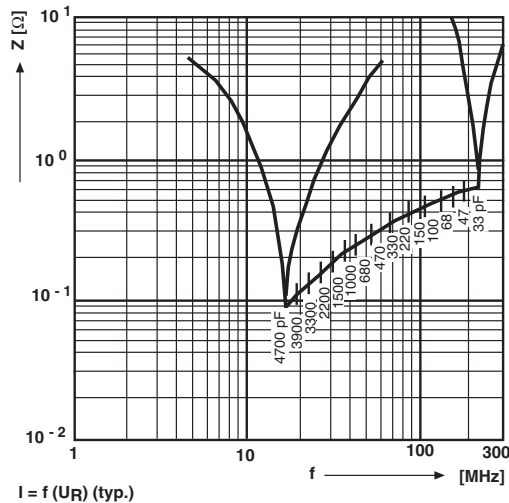


Ceramic AC Capacitors Class X1, 760 V_{AC}/Class Y1, 500 V_{AC}



• Dimensions in mm

Impedance (Z) as a function of frequency (f) at T_a = 20 °C (average). Measurement with lead length 6 mm.



DESIGN:

Disc capacitors with epoxy coating



RATED VOLTAGE U_R:

- (X1): 760 V_{AC}, 50 Hz (IEC 60384-14.2)
- (Y1): 500 V_{AC}, 50 Hz (IEC 60384-14.2)
- 250 V_{AC}, 60 Hz (UL1414, CSA C22.2)

DIELECTRIC STRENGTH BETWEEN LEADS:

- Component test:
- 4000 V_{AC}, 50 Hz, 2 s
- As repeated test admissible only once with 3600 V_{AC}, 50 Hz, 2 s
- Random sampling test (destructive test):
- 4000 V_{AC}, 50 Hz, 60 s

DIELECTRIC STRENGTH OF BODY INSULATION:

- 4000 V_{AC}, 50 Hz, 60 s (destructive test)

DISSIPATION FACTOR tan δ:

≤ 25 • 10⁻³

INSULATION RESISTANCE R_{is}:

≥ 10 • 10⁹ Ω

CATEGORY TEMPERATURE RANGE θ_A:

(- 40 to + 125) °C

CLIMATIC CATEGORY ACC. TO EN60068-1:

40/125/21

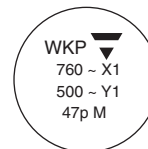
COATING:

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

TAPING AND SPECIAL LEAD CONFIGURATIONS:

On request

MARKING:



WKP 33 pF to 680 pF

WKP 1.0 nF to 4.7 nF

All approval marks are also shown on the label.



Ceramic AC Capacitors
Class X1, 760 V_{AC}/Class Y1, 500 V_{AC}

Vishay Draloric

ORDERING INFORMATION, CERAMIC X1 / Y1 CAPACITORS WKP							
CAPACITANCE** (pF)	TOL. (%)	D x s (mm)	F ± 1* (mm)	d ± 0.05* (mm)	V ± 0.5* (mm)	ORDERING CODE	
CLASS 1 N 750							
33	± 10 %, ± 20 %	8.0 x 6.0	12.5	0.6	1.9	WKP330□CP□□□KR	
CLASS 2 K 1200							
47	± 10 %, ± 20 %	8.0 x 6.0	12.5	0.6	2.3	WKP470□CP□□□KR	
68						WKP680□CP□□□KR	
CLASS 2 K 1500							
100	± 10 %, ± 20 %	8.0 x 6.0	12.5	0.6	2.3	WKP101□CP□□□KR	
CLASS 2 K 2000							
150	± 10 %, ± 20 %	8.0 x 6.0	12.5	0.6	2.3	WKP151□CP□□□KR	
220						WKP221□CP□□□KR	
CLASS 2 K 4000							
330	± 10 %, ± 20 %	8.0 x 6.0	12.5	0.6	2.5	WKP331□CP□□□KR	
470		9.0 x 6.0				WKP471□CP□□□KR	
680		10.0 x 6.0				WKP681□CP□□□KR	
1000		12.0 x 6.0				WKP102□CP□□□KR	
1500		13.0 x 6.0				WKP152□CP□□□KR	
2200		15.0 x 6.0		WKP222□CP□□□KR			
3300		16.0 x 6.0		WKP332□CP□□□KR			
3900		18.0 x 6.0		WKP392□CP□□□KR			
4700					0.8	2.7	WKP472□CP□□□KR

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

** Capacitance values from 470 pF to 4700 pF: The alternative usage of smaller VKP 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							
IEC 60384 - 14 / 2nd Issue (1993) incl. Am. 1 (1995) - Safety Tests							
EN 132 400 (1994) - Safety Tests							
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	
Germany	Ireland	Netherlands	Sweden	Slovenia	Hungaria	Czech Republic	
Finland	Iceland	Norway	Switzerland	Korea	Israel		
Y1 - Capacitor: CB-Test Certificate:				DE-1-11002-A1	33 pF ... 4.7 nF	500 V _{AC}	
X1 - Capacitor: CB-Test Certificate:				DE-1-11002-A1	33 pF ... 4.7 nF	760 V _{AC}	
Minimum thickness of insulation: 0.4 mm							
Underwriters Laboratories Inc.							
UL 1414	Across-the-line, Antenna-coupling and Line-by-pass component.			33 pF ... 4.7 nF	250 V _{AC}		
Agency Files / Licences				E 183 844 V1 S1			
Canadian Standards Association							
CSA C22.2	Across-the-line, antenna-coupling and line-by-pass component			33 pF ... 4.7 nF	250 V _{AC}		
No 1-98 Agency Files / Licences				E 183 844 V1 S1			

ORDERING INFORMATION						
WKP	221	M	CP	ED0	K	R
SERIES	CAP. VALUE	TOLERANCE	RATED VOLTAGE	LEAD CONFIGURATION	INTERNAL CODE	RoHS COMPLIANT



Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.