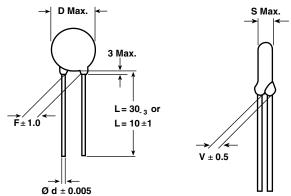


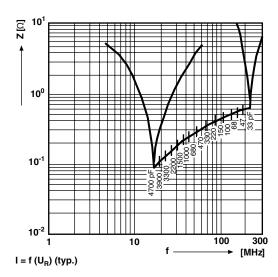
Ceramic AC Capacitors Class X1, 760 V_{AC}/Class Y1, 500 V_{AC}

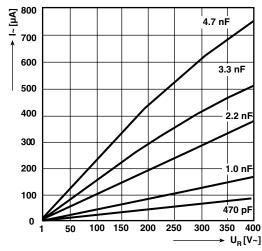


Dimensions in mm

Note

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 UR

(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

 \leq 25 x 10⁻³

INSULATION RESISTANCE RIS

 \geq 10 x 10 $^9\,\Omega$

CATEGORY TEMPERATURE RANGE $\vartheta_{\textbf{A}}$

(- 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 1.5 nF

WKP 2.2 nF to 4.7 nF

Not

• All approval marks are also shown on the label.

Vishay Draloric

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



ORDERING INFORMATION, CERAMIC X1/Y1 CAPACITORS WKP						
CAPACITANCE (2) (pF)	TOL. (%)	D x s (mm)	F ± 1 ⁽¹⁾ (mm)	d ± 0.05 ⁽¹⁾ (mm)	V ± 0.5 ⁽¹⁾ (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	110,120	0.0 X 0.0	12.5	0.0	2.0	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	110,120					WKP221□CP□□□KR
CLASS 2 K 4000						
330		8.0 x 6.0		0.6	2.5	WKP331□CP□□□KR
470	± 10 , ± 20					WKP471□CP□□□KR
680		9.0 x 6.0				WKP681□CP□□□KR
1000		10.0 x 6.0	12.5	0.8	2.7	WKP102□CP□□□KR
1500		12.0 x 6.0				WKP152□CP□□□KR
2200		13.0 x 6.0				WKP222□CP□□□KR
3300		15.0 x 6.0				WKP332□CP□□□KR
3900		16.0 x 6.0				WKP392□CP□□□KR
4700		18.0 x 6.0				WKP472□CP□□□KR

Notes

⁽¹⁾ Standard lead configuration, other lead spacing and diameter available on request.
(2) Capacitance values from 470 pF to 4700 pF: The alternative usage of smaller VKP series is recommended for new application.

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

Π	14** ulgit	noi is i	Compilant Component			
APPROVA	LS					
IEC 60384 - 1 EN 132 400 (14 / 2 nd Issue (19 1994) - Safety Te	93) incl. Am. 1 (1995 ests) - Safety Tests			
THAT APPRO	VAL TOGETHER W	ITH THE CB TEST CER	RTIFICATE SUBSTITU	TES THE NATION	AL APPROVAL C	F THE FOLLOWING
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 X1 - Capacitor: CB-Test Certificate: DE-1-11002-A1 Minimum thickness of insulation: 0.4 mm			33 pF 4.7 nF 33 pF 4.7 nF	500 V _{AC} 760 V _{AC}	DVE
UNDERWRITE	RS LABORATORI	ES INC.				
UL 1414	Across-the-line, Antenna-coupling and Line-by-pass component. Agency Files / Licences E 183 844 V1 S1			33 pF 4.7 nF	250 V _{AC}	c 71 0s
CANADIAN ST	TANDARDS ASSO	CIATION				
CSA C22.2	Across-the-line, antenna-coupling and line-by-pass component		33 pF 4.7 nF	250 V _{AC}	67	
NO 1-98	Agency Files / L	icences	E 183 844 V1 S1			c 91 1 us

ORDERING INFORMATION							
WKP	221	М	СР	ED0	K	R	
SERIES	CAP. VALUE	TOLERANCE	RATED VOLTAGE	LEAD CONFIGURATION	INTERNAL CODE	ROHS COMPLIANT	

For technical questions, contact: slcap@vishay.com

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Vishay

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