WKP Series

Vishay Draloric

AC Line Rated Ceramic Disc Capacitors Class X1, 760 V_{AC}, Class Y1, 500 V_{AC}



www.vishay.com

DESIGN SUPPORT TOOLS



QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	1 2			2	
Ceramic Dielectric	N750	N750	Y5S, Y5T, Y5U	Y5S, Y5T, Y5U	
Voltage (V _{AC})	500	760	500	760	
Min. Capacitance (pF)	33		47		
Max. Capacitance (pF)	33		4700		
Mounting	Radial				

MARKING

Marking indicates series, AC rating, capacitance, tolerance code, and approvals.

OPERATING TEMPERATURE RANGE

-40 °C to +125 °C

TEMPERATURE CHARACTERISTICS

Class 1	N750 (U2J)	
Class 2	Y5S, Y5T, Y5U	

SECTIONAL SPECIFICATIONS

Climatic category (according to EN 60068-1)

Class 1 40/125/21 40/125/21 Class 2

APPROVALS

IEC 60384-14.4 UL 60384-14.1 CSA E60384-1:03 2nd edition, CSA E60384-14:09 2nd edition

FEATURES

- Complying with IEC 60384-14 4th edition
- · High reliability
- Wide range of different leadstyles
- Singlelayer AC disc safety capacitors



 Material categorization: for definitions of COMPLIANT compliance please see www.vishay.com/doc?99912

APPLICATIONS

- X1, Y1 according to IEC 60384-14.4
- Across-the-line
- Line-by-pass
- Antenna coupling

DESIGN

The capacitors consist of ceramic disc both sides of which are silver plated. Connection leads are made of tinned copper having diameters of 0.6 mm or 0.8 mm.

The capacitors may be supplied with straight or kinked leads having a lead spacing of 10.0 mm or 12.5 mm.

Coating is made of blue colored flame retardant epoxy resin in accordance with UL 94 V-0.

CAPACITANCE RANGE

33 pF to 4.7 nF

TOLERANCE ON CAPACITANCE

± 10 %, ± 20 %

RATED VOLTAGE

- X1: 760 V_{AC}, 50 Hz (IEC 60384-14.4) 760 VAC, 50 Hz / 60 Hz (US/UL/CSA 60384-14)
- Y1: 500 VAC, 50 Hz (IEC 60384-14.4) 500 V_{AC}, 50 Hz / 60 Hz (US/UL/CSA 60384-14)

TEST VOLTAGE

- 4000 V_{AC}, 50 Hz, 2 s Component test (100 %)
- 4000 V_{AC}, 50 Hz, 60 s Random sampling test (destructive)
- 4000 V_{AC}, 50 Hz, 60 s Voltage proof of coating (destructive)

INSULATION RESISTANCE AT 500 VDC

 \geq 10 000 M Ω (60 s)

DISSIPATION FACTOR

Class 1:	max. 0.5 % (1 kHz)
Class 2:	max. 2.5 % (1 kHz)

Revision: 29-Mar-18

For technical questions, contact: slcap@vishay.com

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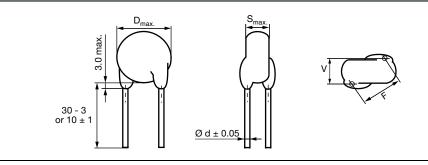
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DIMENSIONS in millimeters



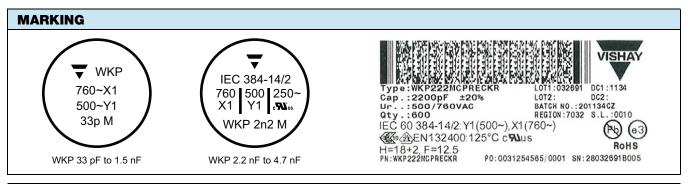
TECHNICAL DATA							
CAPACITANCE ⁽²⁾ C (pF)	CAPACITANCE TOLERANCE	BODY DIAMETER	BODY	LEAD SPACING ⁽¹⁾ F (mm)	LEAD DIAMETER ⁽¹⁾ d (mm)	WIDTH ⁽¹⁾ V (mm)	PART NUMBER MISSING DIGITS SEE ORDERING
		D _{MAX.} (mm)	S _{MAX.} (mm)	± 1 mm	± 0.05 mm	± 0.5 mm	CODE BELOW
N750 (U2J)			l	l	l		
33	± 10 %, ± 20 %	8.0	6.0	12.5	0.6	1.9	WKP330#CP###KR
Y5S (2C3)							
47	10.0/						WKP470#CP###KR
68	± 10 %, ± 20 %	8.0	6.0	12.5	0.6	2.3	WKP680#CP###KR
100	± 20 %						WKP101#CP###KR
Y5T (2D3)							
150	± 10 %,	<u>۹</u> ۵	3.0 6.0	12.5	0.6	2.3	WKP151#CP###KR
220	± 20 %	0.0					WKP221#CP###KR
Y5U (2E3)							
330		8.0			0.6 2.5	2.5	WKP331#CP###KR
470		0.0					WKP471#CP###KR
680		9.0					WKP681#CP###KR
1000	10.0/	10.0					WKP102#CP###KR
1500	± 10 %, ± 20 %	12.0	6.0	12.5		2.7	WKP152#CP###KR
2200		13.0					WKP222#CP###KR
3300		15.0					WKP332#CP###KR
3900		16.0					WKP392#CP###KR
4700		18.0					WKP472#CP###KR

Notes

⁽¹⁾ Standard lead configuration, other lead spacing and diameter available on request

(2) Capacitance values from 1 nF to 4.7 nF: 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"			
Example	WKP	222	М	CP	ED0	K	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant



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2 For technical questions, contact: slcap@vishay.com Document Number: 22206

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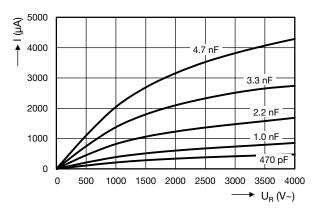
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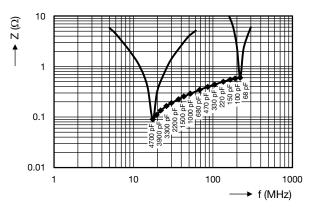
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APPROVALS				
IEC 60384-14.4 - Safety tests This approval together with CB test certificate substitutes	all national approval	s.		
CB Certificate				
Y1-capacitor: CB test certificate:	US-26549-UL	33 pF to 4.7 nF	$500 V_{AC}$	/II. \
X1-capacitor: CB test certificate:	US-26549-UL	33 pF to 4.7 nF	760 V _{AC}	(YL)
Minimum thickness of insulation: 0.4 mm				
VDE				
Y1-capacitor: VDE marks approval:	136493	33 pF to 4.7 nF	$500 V_{AC}$	\wedge
X1-capacitor: VDE marks approval:	136493	33 pF to 4.7 nF	760 V _{AC}	
DIN EN 60384-14 VDE 0565-1-1:2006-04 - Safety tests				
Minimum thickness of insulation: 0.4 mm				
Underwriters Laboratories Inc. / Canadian Standards A	Association			
Y1-capacitor: UL-test certificate:	E183844	33 pF to 4.7 nF	$500 V_{AC}$	
X1-capacitor: UL-test certificate:	E183844	33 pF to 4.7 nF	760 V _{AC}	
UL 60384-14.1, CSA E60384-1:03 2 nd edition, CSA E60384-14:09 2 nd edition				c H us
Across-the-line, antenna-coupling and line-by-pass comp	onent			
Minimum thickness of insulation: 0.4 mm				

LEAKAGE CURRENT VS. VOLTAGE (typical)



IMPEDANCE VS. FREQUENCY (typical)



RELATED DOCUMENTS		
General Information	www.vishay.com/doc?22001	
CB Test Certificate	www.vishay.com/doc?22214	
VDE Marks Approval	www.vishay.com/doc?22216	
UL Test Certificate	www.vishay.com/doc?22215	

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