WYO Series

www.vishay.com

Vishay Draloric

AC Line Rated Ceramic Disc Capacitors Class X1, 440 V_{AC} , Class Y2, 250 V_{AC}



QUICK REFERENCE DATA				
DESCRIPTION	VALUE			
Ceramic Class	2			
Ceramic Dielectric	Y5U			
Voltage (V _{AC})	440	250		
Min. Capacitance (pF)	1000			
Max. Capacitance (pF)	12 000			
Mounting	Radial			

MARKING

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

OPERATING TEMPERATURE RANGE

-40 °C to +125 °C

TEMPERATURE CHARACTERISTICS

Class 2 Y5U

SECTIONAL SPECIFICATIONS

Climatic category (according to EN 60058-1) Class 2 40/125/21

APPROVALS

Revision: 19-Feb-16

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 capacitance values
- Wide range of different leadstyles
- Singlelayer AC disc safety capacitors
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

APPLICATIONS

- X1, Y2 according to IEC 60384-14.4
- Line-by-pass

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.

The capacitors may be supplied with straight or kinked leads having a lead spacing of 5.0 mm or 7.5 mm.

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

CAPACITANCE RANGE

1.0 nF to 12 nF

TOLERANCE ON CAPACITANCE

± 20 %

RATED VOLTAGE

- X1: 440 V_{AC}, 50 Hz (IEC 60384-14.4) 440 V_{AC}, 50 Hz / 60 Hz (US/UL/CSA 60384-14)
- Y2: 250 V_{AC}, 50 Hz (IEC 60384-14.4) 250 V_{AC}, 50 Hz / 60 Hz (US/UL/CSA 60384-14)

TEST VOLTAGE

- 2500 V_{AC}, 50 Hz, 2 s Component test (100 %)
- 1500 V_{AC}, 50 Hz, 60 s Random sampling test (destructive)
- 2000 V_{AC}, 60 Hz, 60 s Voltage proof of coating (destructive)

INSULATION RESISTANCE AT 500 VDC

≥ 6000 MΩ (60 s)

DISSIPATION FACTOR

Class 2: max. 2.5 % (1 kHz)

1 For technical questions, contact: slcap@vishav.com



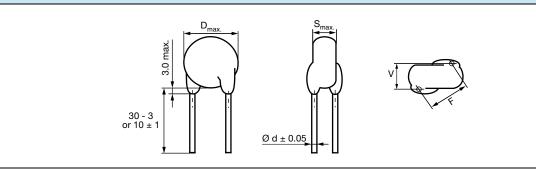
COMPLIANT



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DIMENSIONS in millimeters

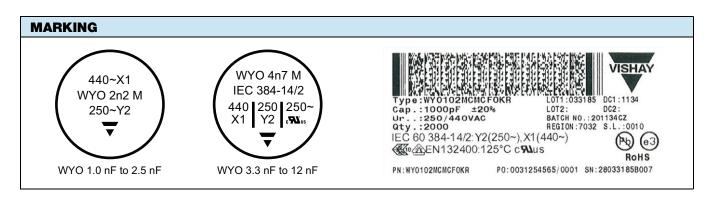


TECHNICAL DATA							
			BODY THICKNESS S _{MAX.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	PART NUMBER
CAPACITANCE C (pF)							MISSING DIGITS SEE ORDERING CODE BELOW
Y5U (2E3)	Y5U (2E3)						
1000		6.5			0.6		WYO102#CM###KR
1500		8.0		4.5 7.5		1.4	WYO152#CM###KR
1800		8.0					WYO182#CM###KR
2200		9.0					WYO222#CM###KR
2500		9.0					WYO252#CM###KR
3300	± 20 % 11.0 12.5 12.5 17.0 17.0 21.0	11.0	12.5 4.5 12.5 17.0 17.0 17.0				WYO332#CM###KR
4700		12.5					WYO472#CM###KR
5000		12.5					WYO502#CM###KR
6800		17.0				1.6	WYO682#CM###KR
8200		17.0					WYO822#CM###KR
10 000		21.0					WYO103#CM###KR
12 000		21.0					WYO123#CP###KR

Note

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

ORDERING CODE							
#	7 th digit	Capacitance tolerance		± 10 % = K, ± 20 % = M			
###	10 th to 12 th digit	Lead configuration		see "General Information"			
Example	WYO	103	М	СМ	CF0	К	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant



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

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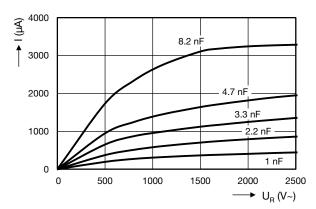
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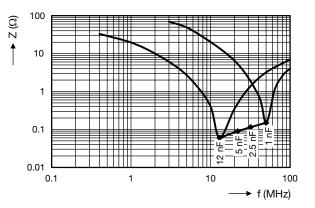
SHAY

APPROVALS				
IEC 60384-14.4 - Safety tests This approval together with CB test certificate substitutes	s all national approvals	S.		
CB Certificate				
Y2-capacitor: CB test certificate:	US-26154-UL	1 nF to 12 nF	250 V _{AC}	/ 11. \
X1-capacitor: CB test certificate:	US-26154-UL	1 nF to 12 nF	440 V _{AC}	
Minimum thickness of insulation: 0.4 mm				
VDE				
Y2-capacitor: VDE marks approval:	133769	1 nF to 12 nF	$250 V_{AC}$	\wedge
X1-capacitor: VDE marks approval:	133769	1 nF to 12 nF	440 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	Association			
Y2-capacitor: UL-test certificate:	E183844	1 nF to 12 nF	$250 V_{AC}$	
X1-capacitor: UL-test certificate:	E183844	1 nF to 12 nF	$440 V_{AC}$	
UL 60384-14.1, CSA E60384-1:03 2 nd edition, CSA E603	C The US			
Across-the-line, antenna-coupling and line-by-pass com	ponent			
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?22225			
VDE Marks Approval	www.vishay.com/doc?22227			
UL Test Certificate	www.vishay.com/doc?22226			



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