

# **Excellent Integrated System Limited**

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

<u>Vishay/BCcomponents</u> <u>WYO102KCMBF0KR</u>

For any questions, you can email us directly: sales@integrated-circuit.com

# Distributor of Vishay/BCcomponents: Excellent Integrated System Limited

Datasheet of WYO102KCMBF0KR - CAP CER 1000PF 440VAC Y5U RADIAL

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



www.vishay.com

## WYO Series

Vishay Draloric

# **AC Line Rated Ceramic Disc Capacitors** Class X1, 440 V<sub>AC</sub>, Class Y2, 250 V<sub>AC</sub>



QUICK REFERENCE DATA				
DESCRIPTION	VALUE			
Ceramic Class	2	2		
Ceramic Dielectric	YS	5U		
Voltage (V <sub>AC</sub> )	440	250		
Min. Capacitance (pF)	10	00		
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**

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 www.vishav.com/doc?99912

#### **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

440 VAC, 50 Hz (IEC 60384-14.4)

440 V<sub>AC</sub>, 50 Hz / 60 Hz (US/UL/CSA 60384-14)

250 V<sub>AC</sub>, 50 Hz (IEC 60384-14.4) • Y2:

250 V<sub>AC</sub>, 50 Hz / 60 Hz (US/UL/CSA 60384-14)

#### **TEST VOLTAGE**

• 2500 V<sub>AC</sub>, 50 Hz, 2 s Component test (100 %)

• 1500 V<sub>AC</sub>, 50 Hz, 60 s Random sampling test (destructive)

• 2000 V<sub>AC</sub>, 60 Hz, 60 s Voltage proof of coating (destructive)

#### INSULATION RESISTANCE AT 500 VDC

 $\geq$  6000 M $\Omega$  (60 s)

#### **DISSIPATION FACTOR**

Class 2: max. 2.5 % (1 kHz)

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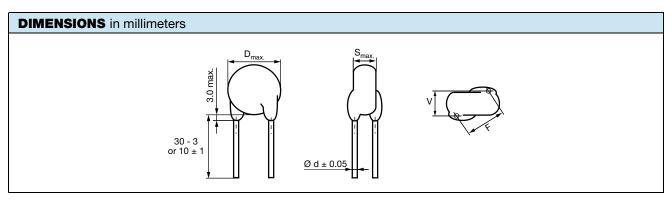
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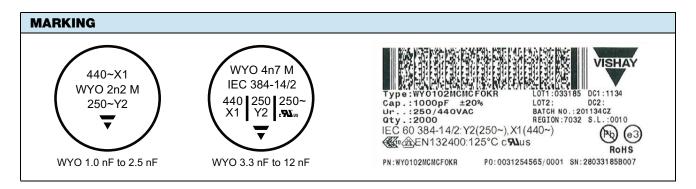


TECHNICAL DATA							
		BODY	BODY	LEAD	LEAD	WIDTH (1)	PART NUMBER
CAPACITANCE C (pF)			THICKNESS S <sub>MAX.</sub> (mm)	SPACING <sup>(1)</sup> F (mm) ± 1 mm	DIAMETER (1) d (mm) ± 0.05 mm	V (mm) ± 0.5 mm	MISSING DIGITS SEE ORDERING CODE BELOW
Y5U (2E3)	Y5U (2E3)						
1000		6.5				1.4	WYO102#CM###KR
1500		8.0		5.0			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	4.5		0.6		WYO332#CM###KR
4700	± 20 70		4.5		0.0		WYO472#CM###KR
5000		12.5					WYO502#CM###KR
6800		17.0	-	7.5		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

<sup>(1)</sup> Standard lead configuration, other lead spacing and diameter available on request

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



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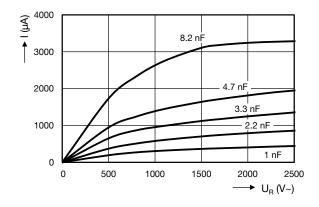
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## **WYO Series**

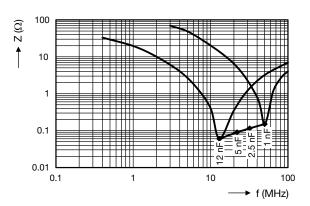
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APPROVALS				
IEC 60384-14.4 - Safety tests This approval together with CB test certificate substitutes	all national approvals	S.		
CB Certificate				
Y2-capacitor: CB test certificate:	US-26154-UL	1 nF to 12 nF	$250V_{AC}$	<i>(</i> 11. )
X1-capacitor: CB test certificate:	US-26154-UL	1 nF to 12 nF	$440 V_{AC}$	(%L)
Minimum thickness of insulation: 0.4 mm				
VDE				
Y2-capacitor: VDE marks approval:	133769	1 nF to 12 nF	$250V_{AC}$	
X1-capacitor: VDE marks approval:	133769	1 nF to 12 nF	$440 V_{AC}$	DVE
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			
Y2-capacitor: UL-test certificate:	E183844	1 nF to 12 nF	$250V_{AC}$	
X1-capacitor: UL-test certificate:	E183844	1 nF to 12 nF	$440  V_{AC}$	
UL 60384-14.1, CSA E60384-1:03 2 <sup>nd</sup> edition, CSA E6038	34-14:09 2 <sup>nd</sup> edition			C TUS
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?22225			
VDE Marks Approval	www.vishay.com/doc?22227			
UL Test Certificate	www.vishay.com/doc?22226			



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