

# Ceramic AC Capacitors

## Class X1, 440 V<sub>AC</sub>/Class Y2, 250 V<sub>AC</sub>



• Dimensions in mm

Impedance (Z) as a function of frequency (f) at T<sub>a</sub> = 20 °C (average). Measurement with lead length 6 mm.



**DESIGN:**

Disc capacitors with epoxy coating



RoHS  
COMPLIANT

**RATED VOLTAGE U<sub>R</sub>:**

- (X1): 440 V<sub>AC</sub>, 50 Hz (IEC 60384-14.2)
- (Y2): 250 V<sub>AC</sub>, 50 Hz (IEC 60384-14.2)
- 250 V<sub>AC</sub>, 60 Hz (UL1414, CSA C22.2)

**DIELECTRIC STRENGTH BETWEEN LEADS:**

Component test:  
2500 V<sub>AC</sub>, 50 Hz, 2 s, for parts with pitch ≥ 7.5 mm  
As repeated test admissible only once with  
2000 V<sub>AC</sub>, 50 Hz, 2 s  
Random sampling test (destructive test):  
1500 V<sub>AC</sub>, 50 Hz, 60 s

**DIELECTRIC STRENGTH OF BODY INSULATION:**

2000 V<sub>AC</sub>, 50 Hz, 60 s (destructive test)

**DISSIPATION FACTOR tan δ:**

≤ 25 • 10<sup>-3</sup>

**INSULATION RESISTANCE R<sub>is</sub>:**

≥ 6 • 10<sup>9</sup> Ω

**CATEGORY TEMPERATURE RANGE θ<sub>A</sub>:**

(- 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 (EXAMPLE):**



WYO 1 nF to 2.5 nF



WYO 3.3 nF to 12 nF

All approval marks are also shown on the label.



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Class X1, 440 V<sub>AC</sub>/Class Y2, 250 V<sub>AC</sub>

Vishay Draloric

<b>ORDERING INFORMATION, CERAMIC X1 / Y2 CAPACITORS WYO</b>						
CAPACITANCE (pF)	TOL. (%)	D x s (mm)	F ± 1* (mm)	d ± 0.05* (mm)	V ± 0.5* (mm)	ORDERING CODE
1000	± 20 %	6.5 x 4.5	5.0	0.6	1.4	WYO102□CM□□□KR
1500		8.0 x 4.5				WYO152□CM□□□KR
1800		8.0 x 4.5				WYO182□CM□□□KR
2200		9.0 x 4.5				WYO222□CM□□□KR
2500		9.0 x 4.5				WYO252□CM□□□KR
3300		10.0 x 4.5				WYO332□CM□□□KR
4700		12.0 x 4.5	7.5		1.6	WYO472□CM□□□KR
5000		12.0 x 4.5				WYO502□CM□□□KR
6800		17.0 x 4.5				WYO682□CM□□□KR
8200		17.0 x 4.5				WYO822□CM□□□KR
0.010 μF		21.0 x 4.5				WYO103□CM□□□KR
0.012 μF		21.0 x 4.5				WYO123□CM□□□KR

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

<b>ORDERING CODE</b>			
□	7th digit	Capacitance Tolerance	± 20 % = M
□□□	10th to 12th digit	Lead Configuration (see General Information)	
R	14th digit	RoHS Compliant Component	

<b>APPROVALS</b>						
<b>IEC 60384 - 14 / 2<sup>nd</sup> Issue (1993) incl. Am. 1 (1995) - Safety Tests</b>						
<b>EN 132 400 (1994) - Safety Tests</b>						
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 Kingdom
Germany	Ireland	Netherlands	Sweden	Slovenia	Hungaria	Czech Republic
Finland	Iceland	Norway	Switzerland	Korea	Israel	
Y2 - Capacitor: CB-Test Certificate: DE-1-11476-A1				1 nF ... 12 nF	250 Vac	
X1 - Capacitor: CB-Test Certificate: DE-1-11148-A1				1 nF ... 12 nF	440 Vac	
Minimum thickness of insulation: 0.4 mm						
Underwriters Laboratories Inc.						
UL 1414	Line-by-pass component			1 nF ... 12 nF	250 Vac	
	Agency Files / Licences			E 183 844 V1 S2		
Canadian Standards Association						
CSA C22.2 No 1-98	Line-by-pass component			1 nF ... 12 nF	250 Vac	
	Agency Files / Licences			E 183 844 V1 S2		

<b>ORDERING INFORMATION</b>						
<b>WYO</b>	<b>103</b>	<b>M</b>	<b>CM</b>	<b>CF0</b>	<b>K</b>	<b>R</b>
SERIES	CAP. VALUE	TOLERANCE	RATED VOLTAGE	LEAD CONFIGURATION	INTERNAL CODE	RoHS COMPLIANT



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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9