

# 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.



**Ceramic AC Capacitors**  
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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