



CERAMIC DISC CAPACITORS

VY2...Y5V Series

AC Line Rated Disc Capacitors Class X1, 440 V_{AC} and Class Y2, 300 V_{AC} Mini Sized VY2 Safety Capacitors



KEY BENEFITS

- Mini sized
- Complies with IEC 60384-14, 4th edition
- ENEC-VDE, UL60384-14, and CSA approved
- High reliability
- Vertical (inline) kink or straight leads

APPLICATIONS

- Across-the-line
- Line by-pass
- Antenna coupling

RESOURCES

- Datasheet: VY2 Series - <http://www.vishay.com/doc?28535>
- For technical questions contact CDC@vishay.com
- Material categorization: For definitions please see www.vishay.com/doc?99912



RoHS
COMPLIANT

HALOGEN
FREE

GREEN
(5-2008)

A WORLD OF
SOLUTIONS

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QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Ceramic Class	2
Ceramic Dielectric	Y5V
Voltage (V _{AC})	300 440
Min. Capacitance (pF)	1000
Max. Capacitance (pF)	10 000
Mounting	Radial

OPERATING TEMPERATURE RANGE

-40 °C to +125 °C

TEMPERATURE CHARACTERISTICS

Class 2: Y5V

Climatic Category

40/125/21 according to EN 60058-1

COATING

According to UL 94 V-0

Epoxy resin, isolating, flame retardant

APPROVALS

ENEC - VDE DE 1-30691

UL 60384-14 file E183844

CSA 22.2

PACKAGING

Bulk, tape and reel, taped ammpack

DESIGN

The capacitor consists of a ceramic disc which is silver plated on both sides. Connection leads are made of tinned copper clad steel having a diameter of 0.6 mm.

The capacitors may be supplied with vertical (inline) kinked leads having a lead spacing of 10.0 mm, or 12.5 mm. Encapsulation is made of flame retardant epoxy resin in accordance with UL 94 V-0.

CAPACITANCE RANGE

10 nF to 4700 µF

RATED VOLTAGE U_R

IEC 60384-14 and UL60384-14

(X1): 440 V_{AC}, 50 Hz

(Y2): 300 V_{AC}, 50 Hz

TEST VOLTAGE

Component test (100 %):

2600 V_{AC}, 50 Hz, 2 s

(2600 V_{AC} for LS 7.5 mm and 10 mm)

(2200 V_{AC} for LS 5.0 mm)

Random sampling test (destructive test):

2600 V_{AC}, 50 Hz, 60 s

Voltage proof of coat (destructive test):

2600 V_{AC}, 50 Hz, 60 s

INSULATION RESISTANCE

10 000 MΩ minimum

TOLERANCE OF CAPACITANCE

± 20 % (code M)

DISSIPATION FACTOR

2.5 % maximum