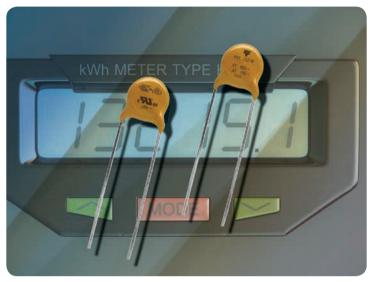


# **CERAMIC DISC CAPACITORS**

VY1...Y5V Series

# AC Line Rated Disc Capacitors Class X1, 760 V<sub>AC</sub>: Class Y1, 500 V<sub>AC</sub> Mini Sized and VY1 Safety Capacitors



## **KEY BENEFITS**

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

# **APPLICATIONS**

- Across the line
- Line bypass
- Antenna coupling

## **RESOURCES**

- Datasheet: VY1 Series <a href="http://www.vishay.com/doc?28537">http://www.vishay.com/doc?28537</a>
- For technical questions contact <u>CDC@vishay.com</u>
- Material categorization: For definitions please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>





ROHS HALOGEN GREEN (5-2008)





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QUICK REFERENCE DATA		
DESCRIPTION	VALUE	
Ceramic Class	2	
Ceramic Dielectric	Y5V	
Voltage (V <sub>AC</sub> )	500	760
Min. Capacitance (pF)	1000	
Max. Capacitance (pF)	4700	
Mounting	Radial	

#### **OPERATING TEMPERATURE RANGE**

-40 °C to +125 °C

# **TEMPERATURE CHARACTERISTICS**

Class 2: Y5S, Y5U

### **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 ammopack

#### **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 nF

#### RATED VOLTAGE UR

IEC 60384-14 and UL60384-14 (X1): 760 VAC, 50 Hz (Y1): 500 VAC, 50 Hz

#### **TEST VOLTAGE**

Component test (100 %): 4000 V<sub>AC</sub>, 50 Hz, 2 s

Random sampling test (destructive test):  $4000 \, V_{AC}$ ,  $50 \, Hz$ ,  $60 \, s$ 

Voltage proof of coat (destructive test):  $4000 \, V_{AC}$ , 50 Hz, 60 s

## **INSULATION RESISTANCE**

10 000  $M\Omega$  minimum

#### **TOLERANCE OF CAPACITANCE**

± 20 % (code M)

# **DISSIPATION FACTOR**

2.5 % maximum