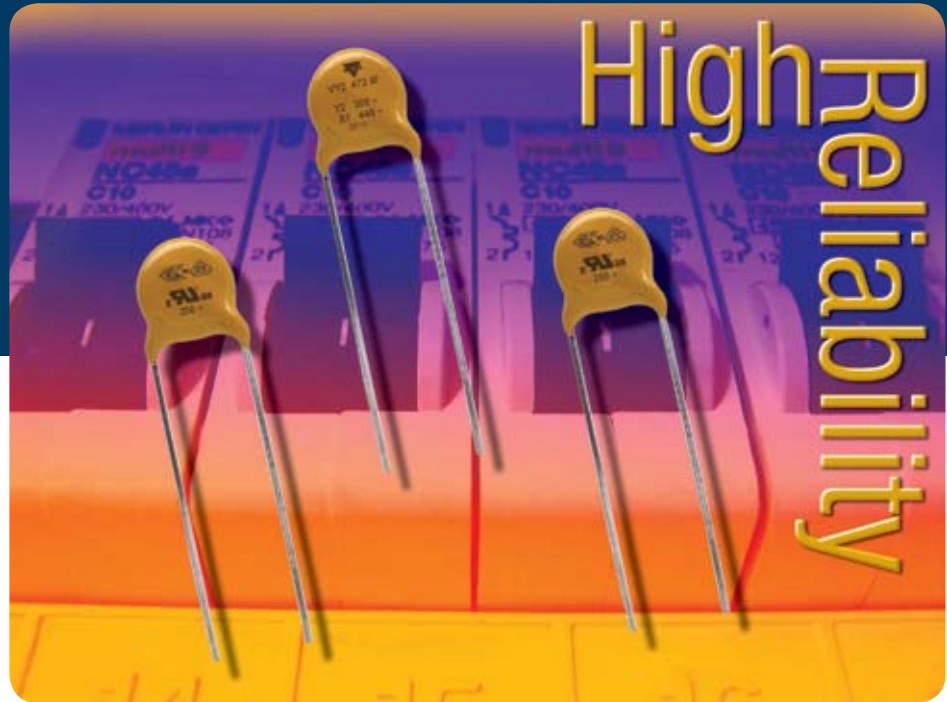




# EMI/RFI CAPACITORS

VY2 Series 300 V (AC)



## Ceramic Disc Capacitors

### KEY BENEFITS

- Complies with IEC 60384-14, 2nd edition
- ENEC-VDE, UL1414 and CSA approved
- High reliability
- WEEE/RoHS compliance, acc. EU directive 2002/95/EC
- Small size, vertical (inline) kink, or straight leads

### KEY SPECIFICATIONS

- Capacitance range: 10 pF to 10 nF
- Rated voltage IEC 60384-14.2 (X1) 440 V (AC), 50 Hz (Y2) 300 V (AC), 50 Hz
- Test voltage: component test 100 %: 2600 V (AC), 50 Hz, 2 sec
- Operating temperature: - 40 °C to + 125 °C

### APPLICATIONS

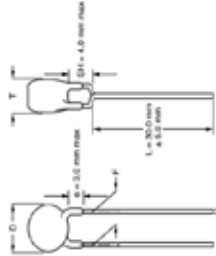
- Across the line
- Line by-pass
- Antenna coupling

Datasheet is available on our web site at [www.vishay.com](http://www.vishay.com)  
for VY2 Series 300 V (AC) - <http://www.vishay.com/doc?28535>



# Ceramic Disc Capacitors Safety Standard Approved Disc Capacitor

## Ceramic Disc Capacitors Safety Standard Approved Disc Capacitor



Capacitors with 5.0 mm, 7.5 mm or 10 mm lead spacing

**DISSIPATION FACTOR:**

2.5 % maximum

**CATEGORY TEMPERATURE RANGE:**

-40 °C to +125 °C

**TEMPERATURE CHARACTERISTICS:**

See Ordering Information Table

**CLIMATIC CATEGORY:**

40/125/21 according to EN60068-1

**COATING:**

according to UL 94V-0 epoxy resin, isolating, flame retardant

**WEEE/ROHS:**

Components in accordance with EU Directive 2002/95/EC

**APPROVALS:**

ENEC - VDE DE 1-30891

UL 1414 file E183844

CSA 22.2

**PACKAGING:**

Bulk; tape and reel; taped ammount

**FEATURES**

- Complying with "EN 132 400" and "IEC 60384-14, 2nd edition, including amendment 1, 1995"
- High reliability
- Vertical (inline) knicked or straight leads

**APPLICATIONS**

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

**DESIGN**

The capacitors consist of a ceramic disc both sides of which are silver-plated. Connected leads are made of tinned copper having a diameter of 0.6 mm. The capacitors may be supplied with vertical (inline) knicked leads having a lead spacing of 5.0 mm, 7.5 mm or 10.0 mm. Encapsulation is made of flame resistant epoxy resin in accordance with "UL94V-0".

**CAPACITANCE RANGE:**

10 pF to 0.01 µF

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

IEC 60384-14.2:

(X1): 440 V (AC), 50 Hz

(Y2): 300 V (AC), 50 Hz

**TEST VOLTAGE:**

Component Test (100 %):

2600 V (AC), 50 Hz, 2 seconds

(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 seconds

Voltage proof of coating (destructive test):

2600 V (AC), 50 Hz, 60 seconds

**INSULATION RESISTANCE:**

10 000 MΩ minimum

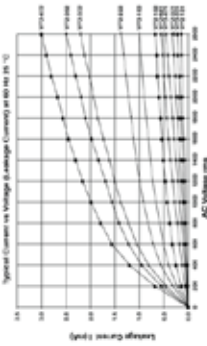
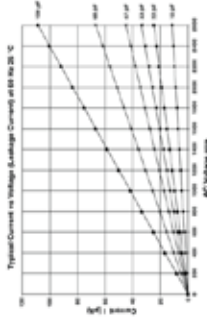
**TOLERANCE OF CAPACITANCE:**

± 20 % (Code M); ± 10 % (Code K)

ORDERING INFORMATION							
C (pF)	TOL (%)	TEMP. COEFFICIENT	BODY DIAMETER D <sub>max</sub> (mm)	BODY THICK T <sub>max</sub> (mm)	LEAD SPACING F (mm)	COATING EXTENSION E <sub>max</sub> (mm)	CLEAR TEXT CODE 1SP DIGIT: T = REEL; U = AMMO; 3 = BULK (2)
VY2 FOR LEADSPACING 5.0 mm							
10							VY2100K26K2J2J58V-V5
15							VY2150K26K2J2J58V-V5
22		U2J (N750)					VY2220K26K2J2J58V-V5
33							VY2330K26K2J2J58V-V5
47	± 10						VY2470K26K2J2J58V-V5
68			7.5				VY2680K26K2J2J58V-V5
100							VY2100K26K2J2J58V-V5
150		Y5S (C23)		5.0	5.0	3.0	VY2150K26K2J2J58V-V5
220							VY2220K26K2J2J58V-V5
330							VY2330K26K2J2J58V-V5
470							VY2470K26K2J2J58V-V5
680							VY2680K26K2J2J58V-V5
1000							VY2100K26K2J2J58V-V5
1500	± 20	Y5U (2E3)	8.0				VY2150M31Y5U58V-V5
2200			9.0				VY2220M31Y5U58V-V5
3300			10.5				VY2330M41Y5U58V-V5
3900			11.0				VY2390M41Y5U58V-V5

ORDERING INFORMATION							
C (pF)	TOL (%)	TEMP. COEFFICIENT	BODY DIAMETER D <sub>max</sub> (mm)	BODY THICK T <sub>max</sub> (mm)	LEAD SPACING F (mm)	COATING EXTENSION E <sub>max</sub> (mm)	CLEAR TEXT CODE 1SP DIGIT: T = REEL; U = AMMO; 3 = BULK (2)
VY2 FOR LEADSPACING 7.5 mm							
10							VY2100K26K2J2J58V-V7
15							VY2150K26K2J2J58V-V7
22		U2J (N750)					VY2220K26K2J2J58V-V7
33							VY2330K26K2J2J58V-V7
47	± 10						VY2470K26K2J2J58V-V7
68			7.5				VY2680K26K2J2J58V-V7
100							VY2100K26K2J2J58V-V7
150		Y5S (2C3)		5.0	7.5	3.0	VY2150K26K2J2J58V-V7
220							VY2220K26K2J2J58V-V7
300							VY2300K26K2J2J58V-V7
470							VY2470K26K2J2J58V-V7
680							VY2680K26K2J2J58V-V7
1000							VY2100M31Y5U58V-V7
1500			8.0				VY2150M31Y5U58V-V7
2000			9.0				VY2200M31Y5U58V-V7
3000	± 20	Y5U (2E3)	10.5				VY2300M41Y5U58V-V7
3900			11.0				VY2390M41Y5U58V-V7
4700			12.5				VY2470M41Y5U58V-V7
6800			14.5				VY2680M41Y5U58V-V7
0.01 µF			16.0				VY2103M63Y5U58V-V7

Revision: 12-Oct-07



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