



EMI/RFI CAPACITORS

VY1 Series 500 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 4.7 nF
- Rated voltage IEC 60384-14.2
(X1) 760 V (AC), 50 Hz
(Y1) 500 V (AC), 50 Hz
- Test voltage
Component test 100%: 4000 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
for VY1 Series 500 V (AC) - <http://www.vishay.com/doc?28537>

Ceramic Disc Capacitors

FEATURES

- Complying with "EN 132 400" and "IEC 60384-14, 2nd edition, including amendment 1.1995"
- High reliability
- Vertical (inline) kinked or straight leads.

APPLICATIONS

- X1, Y1 according to IEC 60384-14.2
- Across-the-line
- Line by-pass
- Antenna coupling.

DESIGN

The capacitors consist of a ceramic disc both sides of which are silver-plated. Connection leads are made of tinned copper having a diameter of 0.6 mm.

Copper having a diameter of 0.5 mm. The capacitors may be supplied with vertical (inline) kinked leads having a lead spacing of 10.0 mm. Encapsulation is made of flammable resistant epoxy resin in accordance with "UL94V-0"

CAPACITANCE RANGE:

10pF to 4700pF

RATED VOLTAGE U_R:

IEC 60384-14.2:

(X1): 760V (AC), 50Hz

(Y1): 500V (AC), 50Hz

250V (AC), 50/60Hz, UL1414 and CSA 22.2

TEST VOLTAGE:

Component Test (100%):

4000V (AC), 50Hz, 2 seconds

Random sampling test (destructive test):

4000V (AC), 50Hz, 60 seconds

Voltage proof of coating (destructive test)

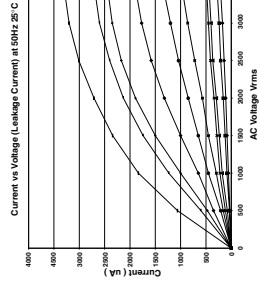
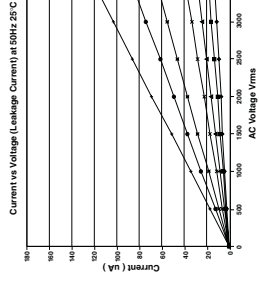
4000V (AC), 50Hz, 60 seconds

INSULATION RESISTANCE.

10000 M Ω minimum

TOILET FRANCHISE OF

TOLERANCE OF CAPACITANCE:
+20% (Code M), +10% (Code K)

 $\pm 20\%$ (Code M), $\pm 10\%$ (Code K)

The capacitors meet the essential requirements of "EIA 198". Unless stated otherwise all electrical values apply at an ambient temperature of $25 \pm 3^\circ\text{C}$, at normal atmospheric conditions



Revision 02-Mar-05

ORDERING INFORMATION

C	TOL. (%)	TEMP. COEFFICIENT	BODY DIAMETER D _{max} (mm)	BODY THICK T _{max} (mm)	LEAD SPACING F (mm)	CLEAR TEXT CODE 1 st DIGIT: T = REL; U = AMMO; 3 = BULK; (a)	CATALOG NUMBER 8 th AND 9 th DIGIT: 70 = REL; 71 = AMMO; 72 = BULK; (b)
10	±10	U2J (N750)	8	5.0 max.	10.0	YY110K031U2JQ6*V0	2252 816 **006
15						YY1120K31U2JQ6*V0	2252 816 **106
22						YY1150K31U2JQ6*V0	2252 816 **206
33						YY1330K31Y5SQ6*V0	2252 816 **306
47						YY1470K31Y5SQ6*V0	2252 816 **406
68	±10	Y5S (2C3)	8	5.0 max.	10.0	YY1680K31Y5SQ6*V0	2252 816 **606
100						YY110K31Y5SQ6*V0	2252 816 **016
150						YY1151K31Y5SQ6*V0	2252 816 **116
220						YY1221K31Y5SQ6*V0	2252 816 **216
330						YY1331K31Y5SQ6*V0	2252 816 **316
470						YY1471M31Y5JQ6*V0	2252 816 **417
680						YY11681M31Y5JQ6*V0	2252 816 **617
1000						YY1102M35Y5JQ6*V0	2252 816 **027
1500						YY1152M41Y5JQ6*V0	2252 816 **127
2200						YY122M47Y5JQ6*V0	2252 816 **227
2700	±20	Y5J (2E3)				YY1272M51Y5JQ6*V0	2252 816 **277
3300						YY1332M59Y5JQ6*V0	2252 816 **327
3900						YY1382M61Y5JQ6*V0	2252 816 **377
4700						YY1472M63Y5JQ6*V0	2252 816 **427

Notes

1. Straight leads are available on request.
2. 15n digit of clear text code number to be completed with the packaging code.
3. 8th and 9th digit of the catalog number to be completed with the packaging code.
4. Coating extension DR valid for straight leads only
5. On request available: $\pm 10\%$ tolerance
6. On request available: leadspacing 12,5mm

LEADSPACING 10.0 mm

PACKAGING			
CAPACITANCE VALUE	SIZE CODE	BODY DIAMETER D _{max}	PACKAGING QUANTITIES
			BULK
			REEL
10pF to 2200pF	31 ~ 47	12.0	500
3300pF to 4700pF	51 ~ 63	16.0	500
			750
			AMMO
			750

- Note**
1. The capacitors are supplied in bulk packaging (cardboard boxes), in tape on reel or in ammpack

STRAIGHT LEADS

