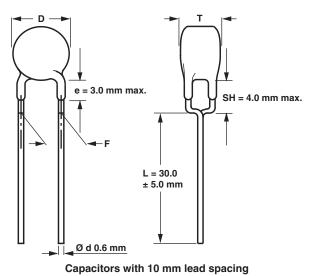
EMI/RFI Y1-VY1

Vishay BCcomponents

Ceramic Disc Capacitors Safety Standard Approved Disc Capacitors



DISSIPATION FACTOR

2.5 % maximum

SHA

CATEGORY TEMPERATURE RANGE

- 40 °C to + 125 °C

TEMPERATURE CHARACTERISTICS

See Ordering Information tables

CLIMATIC CATEGORY

40/125/21 according to EN60068-1

COATING

According to UL 94V-0 Epoxy resin, isolating, flame retardant

WEEE/RoHS

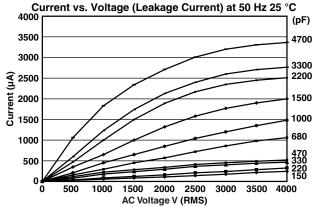
Components in accordance with EU Directive 2002/95/EC

APPROVALS

ENEC VDE (DE1-32019) UL 1414 file E183844 CSA 22.2

PACKAGING

Bulk; Tape and reel; Taped ammopack



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.

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

10 pF to 4700 pF

RATED VOLTAGE UR

IEC 60384-14.2: (X1): 760 V (AC), 50 Hz (Y1): 500 V (AC), 50 Hz 250 V (AC), 50/60 Hz, UL1414 and CSA 22.2

TEST VOLTAGE

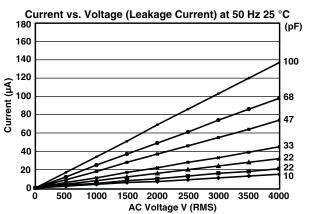
Component Test (100 %): 4000 V (AC), 50 Hz, 2 s Random sampling test (destructive test): 4000 V (AC), 50 Hz, 60 s Voltage proof of coating (destructive test): 4000 V (AC), 50 Hz, 60 s

INSULATION RESISTANCE

10 000 M Ω minimum

TOLERANCE OF CAPACITANCE

± 20 % (Code M); ± 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 ± 3 °C, at normal atmospheric conditions.



RoHS

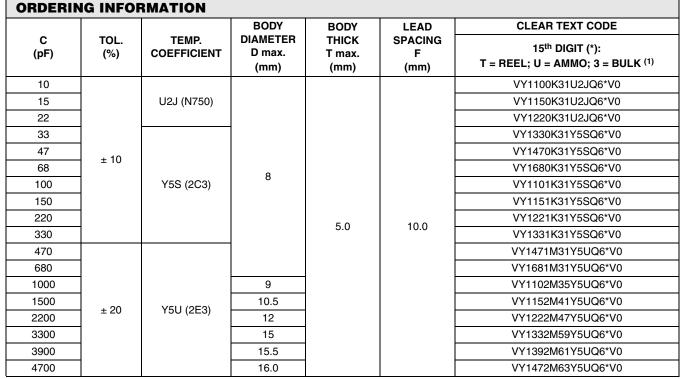
COMPLIANT



EMI/RFI Y1-VY1

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Notes:

1. 15th digit of the clear text code number to be completed with the packaging code

• Straight leads are available on request

Coating extension ∆R valid for straight leads only

• On request available: ± 10 % tolerance

· On request available: Leadspacing 12.5 mm

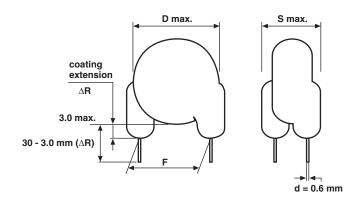
LEADSPACING 10.0 mm

PACKAGING					
CAPACITANCE		BODY DIAMETER	Р	ACKAGING QUANTITIE	S
VALUE	SIZE CODE	D max. (mm)	BULK	REEL	АММО
10 pF to 2200 pF	31 ~ 47	12.0	1000	500	750
3300 pF to 4700 pF	51 ~ 63	16.0	500	500	750

Note:

1. The capacitors are supplied in bulk packaging (cardboard boxes), in tape on reel or in ammopack

STRAIGHT LEADS





SHA

EMI/RFI Y1-VY1

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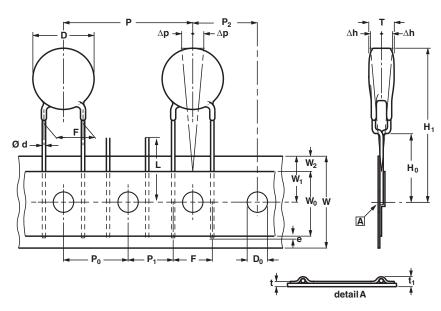


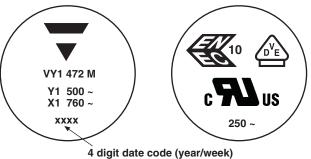
Fig. 2 Lead spacing 10 mm, sprocket hole pitch 25.04 mm for lead spacing

STANDARD RECOGNITION

IEC 60384 - 14/2nd Issue (1993) incl. Am.1 (1995) - Safety Tests EN 132 400 (1994) - Safety Tests

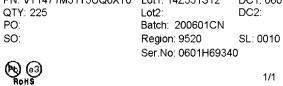
UL 1414 - Across-the-line, antenna-coupling and line-by-pass component CSA C22.2 - Across-the-line, line to ground and antenna isolation capacitor CCC - Chinese Safety Standard is available on request

MARKING: 2 SIDES (EXAMPLE)



LABEL (EXAMPLE)





EMI/RFI Y1-VY1

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Ceramic Disc Capacitors Safety Standard Approved Disc Capacitors



SYMBOL	PARAMETER	DIMENSIONS (mm) Fig. 2	
D ⁽¹⁾	Body diameter	16.0 max.	
d	Lead diameter	0.6 ± 0.05	
P	Pitch of component	25.4 ± 1	
P ₀ ⁽²⁾	Pitch of sprocket hole	12.7 ± 0.3	
P ₁ ⁽³⁾	Distance, hole centre to lead	7.7 ± 1.0	
P ₂ ⁽³⁾	Distance, hole to centre of component	12.7 ± 1.5	
F	Lead spacing	10.0 + 0.6/- 0.4	
Δh	Average deviation across tape	± 1.0 max.	
ΔΡ	Avaerage deviation in direction of reeling	± 1.0 max.	
W	Carrier tape width	18.0 + 1 - 0.5	
W ₀	Hold-down tape width	5.0 min.	
W ₁	Position of sprocket hole	9.0 + 0.75 - 0.5	
W ₂	Distance of hold-down tape	3.0 max.	
H ₁	Maximum component height	40.0	
H ₀	Height to seating plane (for kinked leads)	16.0 ± 0.5	
H ₀	Height to seating plane (for straight leads)	20.0 ± 0.5	
L	Length of cut leads	11.0 max.	
I	Length of lead protrusion	1.0 max.	
D ₀	Diameter of sprocket hole	4.0 ± 0.2	
t	Total tape thickness	0.9 max.	

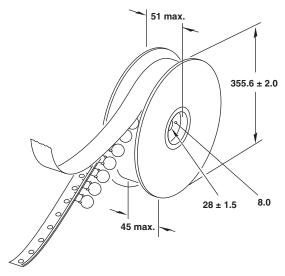
Notes:

1. See ordering information table

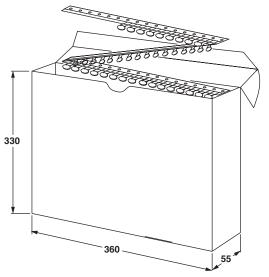
2. Cumulative pitch error: ± 1 mm/20 pitches

3. Obliquity maximum 3°

REEL AND TAPE DATA in millimeters



Reel with capacitors on tape



Ammopack with capacitors on tape



Vishay

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