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Vishay Draloric

AC Line Rated Ceramic Disc Capacitors Class X1, 275 V_{AC}



QUICK REFERENCE DATA				
DESCRIPTION	VALUE			
Ceramic Class	2			
Ceramic Dielectric	Y5V			
Voltage (V _{AC})	275			
Min. Capacitance (pF)	4700			
Max. Capacitance (pF)	22 000			
Mounting	Radial			

MARKING

Marking indicates series, AC rating, capacitance, tolerance code, and approvals.

OPERATING TEMPERATURE RANGE

-40 °C to +125 °C

TEMPERATURE CHARACTERISTICS

Class 2 Y5V

SECTIONAL SPECIFICATIONS

Climatic category (according to EN 60058-1)

Class 2 40/125/21

APPROVALS

IEC 60384-14.3

FEATURES

• Complying with IEC 60384-14 3rd edition



- · High reliability
- Wide range of different leadstyles
- · Singlelayer AC disc safety capacitors

RoHS

Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

APPLICATIONS

- X1 according to IEC 60384-14.3
- EMI / RFI suppression and filtering

DESIGN

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

The capacitors may be supplied with straight or kinked leads having a lead spacing of 7.5 mm.

Coating is made of blue colored flame retardant epoxy resin in accordance with UL 94 V-0.

CAPACITANCE RANGE

4.7 nF to 22 nF

TOLERANCE ON CAPACITANCE

± 20 %

RATED VOLTAGE

X1: 275 V_{AC}, 50 Hz (IEC 60384-14.3)

275 V_{AC}, 50 Hz/60 Hz (US/UL/CSA 60384-14)

TEST VOLTAGE

• 4000 V_{DC}, 2 s Component test (100 %)

3500 V_{DC}, 60 s Random sampling test (destructive)
 2000 V_{AC}, 50 Hz, 60 s Voltage proof of coating (destructive)

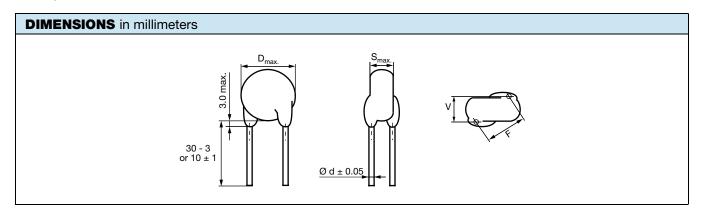
INSULATION RESISTANCE AT 500 V_{DC}

 \geq 6000 M Ω (60 s)

DISSIPATION FACTOR

Class 2: max. 2.5 % (1 kHz)

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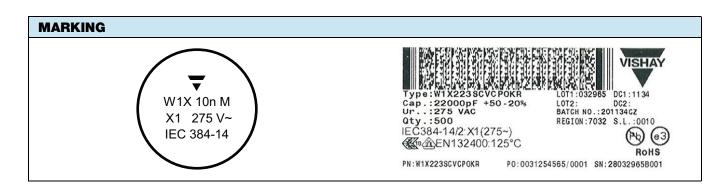


TECHNICAL DATA							
		BODY	BODY	LEAD	LEAD	WIDTH (1)	PART NUMBER
CAPACITANCE C (pF)	CAPACITANCE TOLERANCE	DIAMETER D _{MAX.} (mm)	THICKNESS S _{MAX.} (mm)	SPACING ⁽¹⁾ F (mm) ± 1 mm	DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	V (mm) ± 0.5 mm	MISSING DIGITS SEE ORDERING CODE BELOW
Y5V (2F3)							
4700	± 20 %	11.0	3.0	7.5	0.6	1.4	W1X472#CV###KR
6800		11.0					W1X682#CV###KR
10 000		15.0					W1X103#CV###KR
15 000	-20 %/+50 %	17.0				1.6	W1X153#CV###KR
22 000		20.0					W1X223#CV###KR

Note

⁽¹⁾ Standard lead configuration, other lead spacing and diameter available on request

ORDERING CODE							
#	7 th digit	Capacitance tolerance		± 10 % = K, ± 20 % = M			
###	10 th to 12 th digit	Lead configuration		see "General Information"			
Example	W1X	223	М	CV	CRU	K	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant





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APPROVALS

IEC 60384-14.3 - Safety tests
This approval together with CB test certificate substitutes all national approvals.

CB Certificate

275 V_{AC} X1-capacitor: CB test certificate: DE 1-11148-A1 4.7 nF to 22 nF



Minimum thickness of insulation: 0.4 mm

VDE

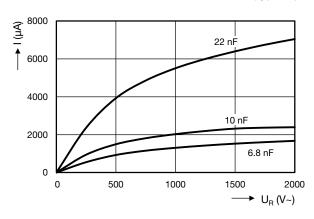
275 V_{AC} X1-capacitor: VDE marks approval: 137890 4.7 nF to 22 nF

DIN EN 60384-14 VDE 0565-1-1:2006-04 - Safety tests

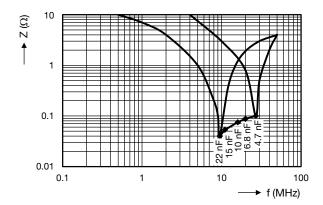
Minimum thickness of insulation: 0.4 mm



LEAKAGE CURRENT VS. VOLTAGE (typical)



IMPEDANCE VS. FREQUENCY (typical)



RELATED DOCUMENTS				
General Information	www.vishay.com/doc?22001			
CB Test Certificate	www.vishay.com/doc?22223			
VDE Marks Approval	www.vishay.com/doc?22224			



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