

High Voltage Ceramic DC Disc Capacitors 10 kV_{DC} and 15 kV_{DC}


FEATURES

- Low losses
- High capacitance in small sizes
- High stability
- Radial leads
- Ceramic singlelayer capacitor
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

APPLICATIONS

- TV and monitors
- SMPS
- DC and pulse high voltage
- X-ray equipment

DESIGN

The capacitors consist of a ceramic disc of which both sides are silver-plated. Connection leads are made of tinned copper having diameters of 0.032" (0.81 mm).

The capacitors may be supplied with straight leads having lead spacing of 0.375" (9.5 mm), 0.500" (12.7 mm) or 0.750" (19.2 mm).

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

CAPACITANCE RANGE

100 pF to 3300 pF

DIELECTRIC STRENGTH BETWEEN LEADS

10 kV _{DC}	15 000 V _{DC} , 2 s
15 kV _{DC}	24 000 V _{DC} , 2 s (in dielectric fluid)

CERAMIC DIELECTRIC

T3M (Class 1)
X5F, Y5R, Y5U, Z5U (Class 2)

QUICK REFERENCE DATA				
DESCRIPTION	VALUE			
Ceramic Class	1		2	
Ceramic Dielectric	T3M (N4700)		X5F, Y5R, Y5U, Z5U	
Voltage (V _{DC})	10 000	15 000	10 000	15 000
Min. Capacitance (pF)	250	100	100	100
Max. Capacitance (pF)	1000	750	3300	2500
Mounting	Radial			

INSULATION RESISTANCE

Min. 1000 ΩF or 200 000 MΩ

TOLERANCE ON CAPACITANCE

± 20 % or + 80 %/- 20 %

DISSIPATION FACTOR

0.2 % max. at 1 kHz; 1 V (Class 1)
2.0 % max. at 1 kHz; 1 V (Class 2)

CATEGORY TEMPERATURE RANGE

- 25 °C to + 85 °C

CLIMATIC CATEGORY ACC. TO EN 60068-1

25/85/21

OPERATING TEMPERATURE RANGE

- 25 °C to + 105 °C

DIMENSIONS in inches (millimeters)	
LEAD OFFSET "LO" (nominal)	
10 kV _{DC}	0.20 (5.0)
15 kV _{DC}	0.30 (7.6)

ORDERING INFORMATION, CERAMIC 10 kV _{DC}								
C (pF)	TOL. (%)	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE INCH (mm)	AWG	WIRE SIZE INCH (mm)	ORDERING CODE	
T3M (N4700)								
250	± 20	0.490 (12.4)	0.290 (7.4)	0.375 (9.5)	20	0.032 (0.81)	615R100GATT25	
500		0.680 (17.3)	0.320 (8.1)	0.500 (12.7)			615R100GATT50	
680		0.750 (19.1)	0.300 (7.6)				615R100GATT68	
820		0.810 (20.6)					615R100GATT82	
1000		0.980 (24.9)	0.320 (8.1)	615R100GATD10				
X5F								
100	± 20	0.680 (17.3)	0.370 (9.4)	0.500 (12.7)	20	0.032 (0.81)	615R100GAT10	
250			0.300 (7.6)				615R100GAT25	
500			0.345 (8.8)				615R100GAT50	
Y5R								
100	± 20	0.490 (12.4)	0.320 (8.1)	0.375 (9.5)	20	0.032 (0.81)	615R100GAST10	
250			0.340 (8.6)				615R100GAST25	
500			0.310 (7.9)				615R100GAST50	
1000			0.750 (19.1)	0.320 (8.1)			0.500 (12.7)	615R100GAD10
2500			0.980 (24.9)	0.330 (8.4)				615R100GATD25
Y5U								
1000	+ 80/- 20	0.680 (17.3)	0.330 (8.4)	0.500 (12.7)	20	0.032 (0.81)	615R100GASD10	
Z5U								
2500	+ 80/- 20	0.750 (19.1)	0.350 (8.9)	0.500 (12.7)	20	0.032 (0.81)	615R100GAD25	
3300		0.980 (24.9)	0.390 (9.9)				615R100GAD33	

ORDERING INFORMATION, CERAMIC 15 kV _{DC}								
C (pF)	TOL. (%)	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE INCH (mm)	AWG	WIRE SIZE INCH (mm)	ORDERING CODE	
T3M (N4700)								
100	± 20	0.490 (12.4)	0.470 (11.9)	0.500 (12.7)	20	0.032 (0.81)	615R150GATT10	
250		0.670 (17.0)	0.460 (11.7)	0.750 (19.1)			615R150GATT25	
390		0.750 (19.1)	0.425 (10.8)				615R150GATT39	
500		0.810 (20.6)	0.410 (10.4)				615R150GATT50	
750		1.063 (27.0)	0.430 (10.9)	615R150GATT75				
X5F								
100	± 20	0.670 (17.0)	0.430 (10.9)	0.750 (19.1)	20	0.032 (0.81)	615R150GAT10	
250			0.455 (11.6)				615R150GAT25	
Y5R								
100	± 20	0.490 (12.4)	0.490 (12.4)	0.500 (12.7)	20	0.032 (0.81)	615R150GAST10	
250			0.480 (12.2)				615R150GAST25	
500			0.670 (17.0)	0.450 (11.4)			0.750 (19.1)	615R150GAT50
1000			0.980 (24.9)	0.460 (11.7)				615R150GATD10
Y5U								
500	+ 80/- 20	0.490 (12.4)	0.375 (9.5)	0.500 (12.7)	20	0.032 (0.81)	615R150GAST50	
1000		0.670 (17.0)	0.420 (10.7)	0.750 (19.1)			615R150GAD10	
Z5U								
2200	+ 80/- 20	0.980 (24.9)	0.510 (13.0)	0.750 (19.1)	20	0.032 (0.81)	615R150GAD22	
2500			0.450 (11.4)				615R150GAD25	



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