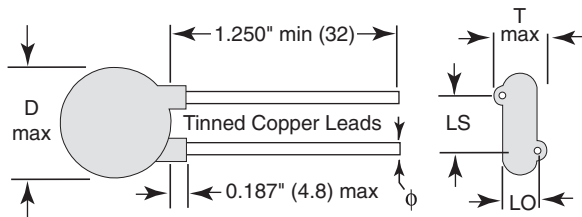


High Voltage Ceramic Disc Capacitors 10 kVDC & 15 kVDC

Fig. 1



LEAD OFFSET 'LO'	
10 kVDC series NOMINAL	0.20 (5.0 mm)
15 kVDC series NOMINAL	0.30 (7.6 mm)

INSULATION RESISTANCE:

min. 1000 Ω F or 200 000 M Ω

TOLERANCE ON CAPACITANCE:

$\pm 20\%$; + 80 - 20 %

DISSIPATION FACTOR:

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

CATEGORY TEMPERATURE RANGE:

(- 25 to + 85) °C

CLIMATIC CATEGORY ACC. TO EN60068-1:

25/085/21

OPERATING TEMPERATURE RANGE:

(- 25 to + 105) °C

FEATURES

- Low losses
- High capacitance in small size
- High stability



APPLICATIONS

- TV & 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" (10.1 mm)

The standard tolerances are $\pm 20\%$ or + 80 - 20 %.

Coating is made of flame retardant epoxy resin in accordance with "UL94V-0".

CAPACITANCE RANGE:

100 pF to 3300 pF

DIELECTRIC STRENGTH BETWEEN LEADS:

10 kVDC	15 000 VDC, 2 s
15 kVDC	24 000 VDC, 2 s
	(in dielectric fluid)

CERAMIC DIELECTRIC:

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

615R Series

Vishay Cera-Mite

High Voltage Ceramic Disc Capacitors
10 kVDC & 15 kVDC



ORDERING INFORMATION, CERAMIC 10 kVDC							
C (pF)	TOL. (%)	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE	WIRE SIZE		ORDERING CODE
					AWG	INCH (mm)	
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)	0.330 (7.4)	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 (7.4)				615R100GATD25
Y5U							
1000	+ 80/- 20 %	0.680 (17.3)	0.330 (7.4)	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 kVDC							
C (pF)	TOL. (%)	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE	WIRE SIZE		ORDERING CODE
					AWG	INCH (mm)	
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)	0.430 (10.9)	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		0.980 (24.9)	0.350 (8.9)				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)	0.430 (10.9)	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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