



HIGH-VOLTAGE DISC CAPACITORS

715C..KT



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High-Voltage Ceramic Disc Capacitors, Screw Mounting, Low DF

KEY BENEFITS

- Low dissipation factor: 0.2 % at 1 kHz
- N4700 (T3M) ceramic dielectric
- High continuous voltage range: 10 kV_{DC} (4 kV_{rms}) to 40 kV_{DC} (13 kV_{rms})
- Wide capacitance range: up to 8000 pF at 10 kV_{DC} and 2000 pF at 40 kV_{DC}
- English and metric screw terminals available
- Epoxy resin encapsulated

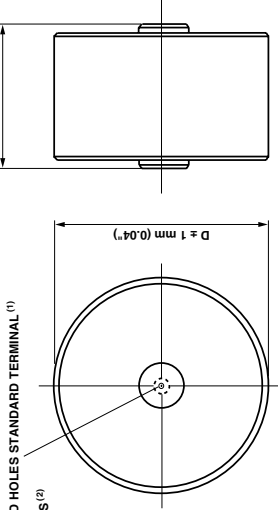
APPLICATIONS

- High-voltage power supplies
- CO₂ lasers
- X-ray equipment
- Welding equipment



High Voltage Disc Capacitors, Screw Mounting

- 715C10KT... 10 kV_{DC}
- 715C15KT... 15 kV_{DC}
- 715C20KT... 20 kV_{DC}
- 715C30KT... 30 kV_{DC}
- 715C40KT... 40 kV_{DC}



Notes:

- (1) Screw torque limit must be 12 inch pounds. Use #8-32, 3/16" long screw to prevent bottoming
- (2) To order M5 terminals add "M5" suffix to model number, use screw length of 5 mm to prevent bottoming
- Dimensions in millimeters (inches)

DIELECTRIC STRENGTH

150 % of rated voltage, charging current limited to 50 mA

DISSIPATION FACTOR tanδ

N4700: $\leq 2 \times 10^{-3}$ (1 kHz)

INSULATION RESISTANCE

Min. 200 000 MΩ or 1000 ΩF min. at 25 °C

CORONA LIMIT

< 5 pC at rated AC voltage

OPERATING TEMPERATURE RANGE

- 30 °C to + 85 °C

MATERIAL

Capacitor elements made from Class 1 ceramic in a molded epoxy case. Screw terminals: brass, silver plated

MARKING

Type designator, capacitance value, rated DC voltage, ceramic material code, production date code, CERAMITE logo

POWER DISSIPATION

Limit to 25 °C rise above ambient, measured on case

ORDERING INFORMATION

MODEL	715C15KTD33	15 kV _{DC}	3300 pF	± 20 %	TOLERANCE	N4700	CERAMIC
		RATED VOLTAGE	CAPACITANCE VALUE				

MODEL	CERAMIC	CAPACITANCE VALUES [pF]	RATED VOLTAGE [kV _{DC}]	RATED VOLTAGE [kV _{RMS}]	D ± 1 mm (0.04")	H with #8-32 terminals ± 1 mm (0.04")	H with M5 metric terminals ± 1 mm (0.04")
715C10KT...							
715C10KTT56	N4700	560	10	4	21 (0.83)	18 (0.70)	N/A
715C10KTD10	N4700	1000	10	4	25 (1.00)	18 (0.70)	N/A
715C10KTD12	N4700	1200	10	4	25 (1.00)	18 (0.70)	N/A
715C10KTD22	N4700	2200	10	4	32 (1.25)	18 (0.70)	19 (0.76)
715C10KTD28	N4700	2800	10	4	38 (1.50)	18 (0.70)	19 (0.76)
715C10KTD50	N4700	5000	10	4	48 (1.89)	18 (0.70)	19 (0.76)
715C10KTD80	N4700	8000	10	4	60 (2.36)	18 (0.70)	19 (0.76)
715C15KT...							
715C15KTT37	N4700	370	15	6	21 (0.83)	20 (0.79)	N/A
715C15KTD10	N4700	1000	15	6	32 (1.25)	20 (0.79)	N/A
715C15KTD19	N4700	1900	15	6	38 (1.50)	20 (0.79)	22 (0.85)
715C15KTD33	N4700	3300	15	6	48 (1.89)	20 (0.79)	22 (0.85)
715C15KTD53	N4700	5300	15	6	60 (2.36)	20 (0.79)	22 (0.85)
715C20KT...							
715C20KTT28	N4700	280	20	6	21 (0.83)	23 (0.89)	N/A
715C20KTT56	N4700	560	20	8	25 (1.00)	23 (0.89)	N/A
715C20KTD10	N4700	1000	20	8	32 (1.25)	23 (0.89)	24 (0.95)
715C20KTD14	N4700	1400	20	8	38 (1.50)	23 (0.89)	24 (0.95)
715C20KTD25	N4700	2500	20	8	48 (1.89)	23 (0.89)	24 (0.95)
715C20KTD40	N4700	4000	20	8	60 (2.36)	23 (0.89)	24 (0.95)
715C30KT...							
715C30KTT19	N4700	190	30	10	21 (0.83)	28 (1.09)	N/A
715C30KTT40	N4700	400	30	10	32 (1.25)	28 (1.09)	N/A
715C30KTT59	N4700	590	30	10	32 (1.25)	28 (1.09)	29 (1.15)
715C30KTT94	N4700	940	30	10	38 (1.50)	28 (1.09)	29 (1.15)
715C30KTD17	N4700	1700	30	10	48 (1.89)	28 (1.09)	29 (1.15)
715C30KTD27	N4700	2700	30	10	60 (2.36)	28 (1.09)	29 (1.15)
715C40KT...							
715C40KTT14	N4700	140	40	13	21 (0.83)	31 (1.22)	N/A
715C40KTT44	N4700	440	40	13	32 (1.25)	31 (1.22)	32 (1.28)
715C40KTT70	N4700	700	40	13	38 (1.50)	31 (1.22)	32 (1.28)
715C40KTD10	N4700	1000	40	13	44 (1.75)	31 (1.22)	32 (1.28)
715C40KTD13	N4700	1300	40	13	48 (1.89)	31 (1.22)	32 (1.28)
715C40KTD20	N4700	2000	40	13	60 (2.36)	31 (1.22)	32 (1.28)

CAPACITANCE TOLERANCES: ± 20 %

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