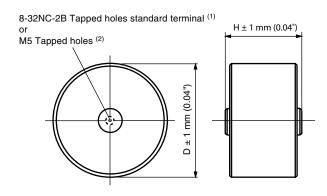


High Voltage Ceramic Disc DC Capacitors, Screw Terminal Mounting, 10 kV_{DC} to 40 kV_{DC}



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 tan δ

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

INSULATION RESISTANCE

Min. 200 000 M Ω or 1000 ΩF min. at 25 $^{\circ} C$

CORONA LIMIT

< 5 pC at rated AC voltage

OPERATING TEMPERATURE RANGE

- 30 °C to + 85 °C

FEATURES

- Low dissipation factor of 0.2 % at 1 kHz
- N4700 (T3M) Class 1, strontium-based ceramic dielectric
- Negligible piezoelectric/electrostrictive effect
- · Screw terminal mounting

APPLICATIONS

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

CAPACITANCE RANGE

140 pF to 8000 pF

RATED VOLTAGE

- 10 000 V_{DC} (4000 V_{RMS})
- 15 000 V_{DC} (6000 V_{RMS})
- 20 000 V_{DC} (8000 V_{RMS})
- 30 000 V_{DC} (10 000 V_{RMS})
- 40 000 V_{DC} (13 000 V_{RMS})

CERAMIC DIELECTRIC

N4700 (Class 1)

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, Cera-Mite logo

POWER DISSIPATION

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

CAPACITANCE TOLERANCES

± 20 %

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715C..KT

Vishay Cera-Mite

High Voltage Ceramic Disc DC Capacitors, Screw Terminal Mounting, 10 kV_{DC} to 40 kV_{DC}



ORDERING INFORMATION

± 20 % 715C15KTD33 $15 \; kV_{DC}$ 3300 pF N4700

RATED VOLTAGE CAPACITANCE VALUE MODEL **TOLERANCE** CERAMIC

MODEL	CERAMIC	CAPACITANCE VALUES [pF]	RATED VOLTAGE [V _{DC}]	RATED VOLTAGE [V _{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	10K	4000	21 (0.83)	18 (0.70)	N/a
715C10KTD10	N4700	1000	10K	4000	25 (1.00)	18 (0.70)	N/a
715C10KTD12	N4700	1200	10K	4000	25 (1.00)	18 (0.70)	N/a
715C10KTD22	N4700	2200	10K	4000	32 (1.25)	18 (0.70)	19 (0.76)
715C10KTD28	N4700	2800	10K	4000	38 (1.50)	18 (0.70)	19 (0.76)
715C10KTD50	N4700	5000	10K	4000	48 (1.89)	18 (0.70)	19 (0.76)
715C10KTD80	N4700	8000	10K	4000	60 (2.36)	18 (0.70)	19 (0.76)
715C15KT	. N					1	•
715C15KTT37	N4700	370	15K	6000	21 (0.83)	20 (0.79)	N/a
715C15KTD10	N4700	1000	15K	6000	32 (1.25)	20 (0.79)	N/a
715C15KTD19	N4700	1900	15K	6000	38 (1.50)	20 (0.79)	22 (0.85)
715C15KTD33	N4700	3300	15K	6000	48 (1.89)	20 (0.79)	22 (0.85)
715C15KTD53	N4700	5300	15K	6000	60 (2.36)	20 (0.79)	22 (0.85)
715C20KT	•			•		•	•
715C20KTT28	N4700	280	20K	8000	21 (0.83)	23 (0.89)	N/a
715C20KTT56	N4700	560	20K	8000	25 (1.00)	23 (0.89)	N/a
715C20KTD10	N4700	1000	20K	8000	32 (1.25)	23 (0.89)	24 (0.95)
715C20KTD14	N4700	1400	20K	8000	38 (1.50)	23 (0.89)	24 (0.95)
715C20KTD25	N4700	2500	20K	8000	48 (1.89)	23 (0.89)	24 (0.95)
715C20KTD40	N4700	4000	20K	8000	60 (2.36)	23 (0.89)	24 (0.95)
715C30KT	•			•		•	•
715C30KTT19	N4700	190	30K	10K	21 (0.83)	28 (1.09)	N/a
715C30KTT40	N4700	400	30K	10K	32 (1.25)	28 (1.09)	N/a
715C30KTT59	N4700	590	30K	10K	32 (1.25)	28 (1.09)	29 (1.15)
715C30KTT94	N4700	940	30K	10K	38 (1.50)	28 (1.09)	29 (1.15)
715C30KTD17	N4700	1700	30K	10K	48 (1.89)	28 (1.09)	29 (1.15)
715C30KTD27	N4700	2700	30K	10K	60 (2.36)	28 (1.09)	29 (1.15)
715C40KT						-	
715C40KTT14	N4700	140	40K	13K	21 (0.83)	31 (1.22)	N/a
715C40KTT44	N4700	440	40K	13K	32 (1.25)	31 (1.22)	32 (1.28)
715C40KTT70	N4700	700	40K	13K	38 (1.50)	31 (1.22)	32 (1.28)
715C40KTD10	N4700	1000	40K	13K	44 (1.75)	31 (1.22)	32 (1.28)
715C40KTD13	N4700	1300	40K	13K	48 (1.89)	31 (1.22)	32 (1.28)
715C40KTD20	N4700	2000	40K	13K	60 (2.36)	31 (1.22)	32 (1.28)

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