

High Voltage Class 2 Ceramic DC Disc Capacitors, Screw Terminal Mounting, 15 kV_{DC} to 40 kV_{DC}



QUICK REFERENCE DATA

| DESCRIPTION | VALUE | | | |
|----------------------------|-----------------|-----------------|-----------------|-----------------|
| Ceramic Class | 2 | | | |
| Ceramic Dielectric | Y5U | | | |
| Type | 715C15 DK### | 715C20 DK### | 715C30 DK### | 715C40 DK### |
| Voltage (V _{DC}) | 15 000 | 20 000 | 30 000 | 40 000 |
| Min. Capacitance (pF) | 1500 | 500 | 500 | 300 |
| Max. Capacitance (pF) | 10 000 | 6800 | 4700 | 3300 |
| Mounting | Screw terminal | | | |

DIELECTRIC STRENGTH

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

DISSIPATION FACTOR tan δ

≤ 20 x 10⁻³ (1 kHz)

INSULATION RESISTANCE

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

CORONA LIMIT

< 5 pC at 50 % rated AC voltage

OPERATING TEMPERATURE RANGE

- 30 °C to + 85 °C

FEATURES

- Class 2 ceramic (Y5U)
- Low inductance
- High insulation resistance
- Epoxy coating
- Screw terminal mounting
- Ceramic singlelayer capacitor

APPLICATIONS

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

CAPACITANCE RANGE

100 pF to 10 nF

RATED VOLTAGE ⁽¹⁾

- 15 kV_{DC} (5.3 kV_{RMS})
- 20 kV_{DC} (7.0 kV_{RMS})
- 30 kV_{DC} (10.6 kV_{RMS})
- 40 kV_{DC} (14.0 kV_{RMS})

Note

⁽¹⁾ All kV_{RMS} up to 60 Hz

CERAMIC DIELECTRIC

Y5U (Class 2)

MATERIAL

Capacitor elements made from Class 3 ceramic in a molded epoxy case. Screw terminals: brass, silver plated

MARKING

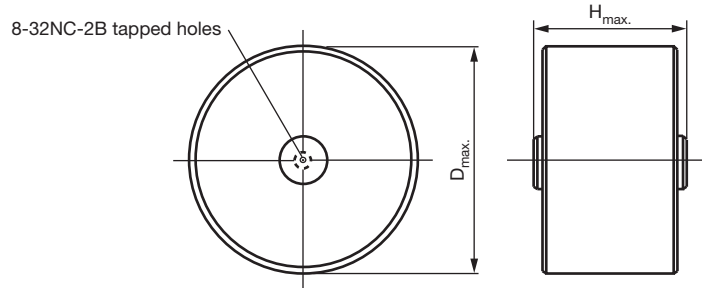
Type designator, capacitance value, rated DC voltage, ceramic material code, production date code, Cera-mite logo

POWER DISSIPATION

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

CAPACITANCE TOLERANCES

- 20 % to + 80 %

DIMENSIONS in inches (millimeters)

Notes

- Screw torque limit must be 12 inch pounds. Use #8-32, 3/16" long screw to prevent bottoming
- M5 metric terminals available on request, consult factory

ORDERING INFORMATION

| MODEL | RATED VOLTAGE | CAPACITANCE VALUE | TOLERANCE | CERAMIC |
|-------------|---------------------|-------------------|------------------|---------|
| 715C15DKD20 | 15 kV _{DC} | 2000 pF | - 20 % TO + 80 % | Y5U |

SAP PART NUMBER, ELECTRICAL, AND DIMENSIONAL DATA

| MODEL | CERAMIC | CAPACITANCE VALUES (pF) | RATED VOLTAGE (kV _{DC}) | RATED VOLTAGE (kV _{RMS}) | D _{max.} | H _{max.} |
|--------------------|---------|-------------------------|-----------------------------------|------------------------------------|-------------------|-------------------|
| 715C15DK### | | | | | | |
| 715C15DKD15 | Y5U | 1500 | 15 | 5.3 | 26.7 (1.05) | 22.9 (0.90) |
| 715C15DKD20 | | 2000 | | | 33.0 (1.30) | |
| 715C15DKD33 | | 3300 | | | 39.4 (1.55) | |
| 715C15DKD47 | | 4700 | | | 33.0 (1.30) | |
| 715C15DKS10 | | 10 000 | | | 45.7 (1.80) | |
| 715C20DK### | | | | | | |
| 715C20DKT50 | Y5U | 500 | 20 | 7.0 | 22.4 (0.88) | 25.4 (1.00) |
| 715C20DKD10 | | 1000 | | | 33.0 (1.30) | |
| 715C20DKD13 | | 1300 | | | 33.0 (1.30) | |
| 715C20DKD25 | | 2500 | | | 39.4 (1.55) | |
| 715C20DKD33 | | 3300 | | | 45.7 (1.80) | |
| 715C20DKD47 | | 4700 | | | 54.1 (2.13) | |
| 715C20DKD68 | | 6800 | | | 61.5 (2.42) | |
| 715C30DK### | | | | | | |
| 715C30DKT50 | Y5U | 500 | 30 | 10.6 | 26.7 (1.05) | 34.5 (1.36) |
| 715C30DKD10 | | 1000 | | | 33.0 (1.30) | 30.0 (1.18) |
| 715C30DKD25 | | 2500 | | | 45.7 (1.80) | |
| 715C30DKD33 | | 3300 | | | 54.1 (2.13) | |
| 715C30DKD47 | | 4700 | | | 61.5 (2.42) | |
| 715C40DK### | | | | | | |
| 715C40DKT30 | Y5U | 300 | 40 | 14.0 | 22.4 (0.88) | 34.5 (1.36) |
| 715C40DKT50 | | 500 | | | 26.7 (1.05) | |
| 715C40DKT78 | | 780 | | | 33.0 (1.30) | |
| 715C40DKD10 | | 1000 | | | 39.4 (1.55) | |
| 715C40DKD16 | | 1600 | | | 45.7 (1.80) | |
| 715C40DKD25 | | 2500 | | | 54.1 (2.13) | |
| 715C40DKD33 | | 3300 | | | 58.4 (2.30) | |



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