

HIGH VOLTAGE DISC CERAMIC CAPACITORS

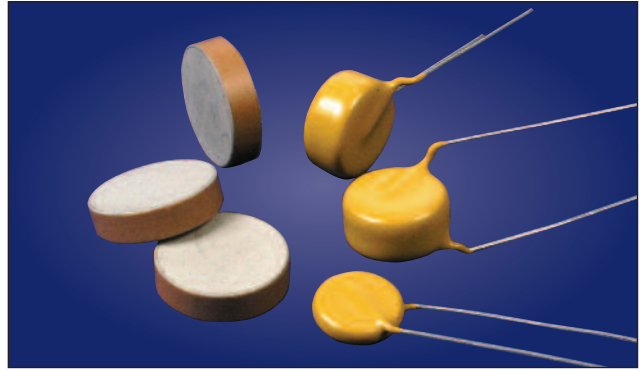
DESCRIPTION:

Disc capacitors are solid ceramic discs of uniform density, metallized on two sides specialty suitable for:

- Blocking, bypass and coupling applications
- DC to RF applications
- High voltages

AVAILABLE AS:

- Discs
- Radial leaded discs
- Leaded and epoxy conformal coated devices
(Epoxy-coated devices available screened to Mil-PRF-49467)



CAPACITANCE — VOLTAGE RANGE AVAILABLE

| | Disc Style | D Max (inches) | S ± .030 (inches) | NPO (pF) | | X7R (pF) | |
|--------|------------|----------------|-------------------|----------|-----|----------|------|
| | | | | Min | Max | Min | Max |
| 3,000V | D30 | .300 | .250 | 7.8 | 9.6 | 250 | 300 |
| | D40 | .400 | .250 | 20 | 25 | 630 | 770 |
| | D50 | .500 | .375 | 36 | 44 | 1100 | 1400 |
| | D75 | .750 | .375 | 80 | 98 | 2500 | 3100 |
| | D90 | .900 | .500 | 120 | 150 | 3800 | 4700 |
| | D100 | 1.00 | .500 | 150 | 180 | 4600 | 5600 |
| | D120 | 1.20 | .500 | 190 | 240 | 6000 | 7400 |
| 5,000V | D30 | .300 | .250 | 4.7 | 5.7 | 150 | 180 |
| | D40 | .400 | .250 | 12 | 15 | 380 | 460 |
| | D50 | .500 | .375 | 21 | 26 | 670 | 820 |
| | D75 | .750 | .375 | 48 | 59 | 1500 | 1800 |
| | D90 | .900 | .500 | 74 | 90 | 2300 | 2800 |
| | D100 | 1.00 | .500 | 87 | 107 | 2700 | 3300 |
| | D120 | 1.20 | .500 | 120 | 141 | 3600 | 4400 |
| 7,500V | D30 | .300 | .250 | 3.1 | 3.8 | 100 | 120 |
| | D40 | .400 | .250 | 8.1 | 9.9 | 250 | 310 |
| | D50 | .500 | .375 | 14 | 17 | 450 | 550 |
| | D75 | .750 | .375 | 32 | 39 | 1000 | 1200 |
| | D90 | .900 | .500 | 49 | 60 | 1500 | 1900 |
| | D100 | 1.00 | .500 | 58 | 71 | 1800 | 2200 |
| | D120 | 1.20 | .500 | 77 | 94 | 2400 | 3000 |

| | Disc Style | D Max (inches) | S ± .030 (inches) | NPO (pF) | | X7R (pF) | |
|---------|------------|----------------|-------------------|----------|-----|----------|------|
| | | | | Min | Max | Min | Max |
| 10,000V | D30 | .300 | .250 | 2.4 | 2.9 | 70 | 90 |
| | D40 | .400 | .250 | 6.1 | 7.4 | 190 | 230 |
| | D50 | .500 | .375 | 11 | 13 | 330 | 410 |
| | D75 | .750 | .375 | 24 | 29 | 750 | 920 |
| | D90 | .900 | .500 | 37 | 45 | 1200 | 1400 |
| | D100 | 1.00 | .500 | 44 | 53 | 1400 | 1700 |
| | D120 | 1.20 | .500 | 58 | 71 | 1800 | 2200 |
| 15,000V | D30 | .300 | .250 | 1.6 | 1.9 | 50 | 60 |
| | D40 | .400 | .250 | 4.0 | 4.9 | 130 | 150 |
| | D50 | .500 | .375 | 7.1 | 8.7 | 220 | 270 |
| | D75 | .750 | .375 | 16 | 20 | 500 | 610 |
| | D90 | .900 | .500 | 25 | 30 | 770 | 940 |
| | D100 | 1.00 | .500 | 29 | 36 | 910 | 1100 |
| | D120 | 1.20 | .500 | 39 | 47 | 1200 | 1500 |
| 20,000V | D30 | .300 | .250 | 1.2 | 1.4 | 37 | 45 |
| | D40 | .400 | .250 | 3.0 | 3.7 | 100 | 120 |
| | D50 | .500 | .375 | 5.3 | 6.5 | 170 | 200 |
| | D75 | .750 | .375 | 12 | 15 | 380 | 460 |
| | D90 | .900 | .500 | 18 | 22 | 580 | 700 |
| | D100 | 1.00 | .500 | 22 | 27 | 680 | 830 |
| | D120 | 1.20 | .500 | 29 | 35 | 910 | 1100 |

STYLE SPECIFICATIONS (inches)

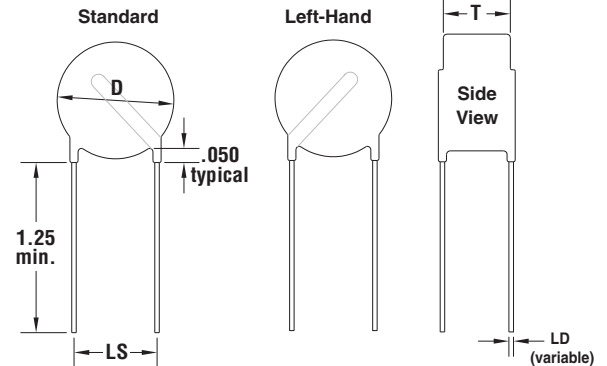
| Style | D (Max) | LS ± .030 | Lead Diameter ± .002 |
|-------|---------|-----------|----------------------|
| D30 | .300 | .250 | .025 |
| D40 | .400 | .250 | .025 |
| D50 | .500 | .375 | .032 |
| D75 | .750 | .375 | .032 |
| D90 | .900 | .500 | .032 |
| D100 | 1.00 | .500 | .032 |
| D120 | 1.20 | .500 | .032 |

VOLTAGE VS. THICKNESS (inches)

| Voltage | T (Max) |
|---------|---------|
| 3.0 KV | .150 |
| 5.0 KV | .200 |
| 7.5 KV | .280 |
| 10 KV | .350 |
| 15 KV | .450 |
| 20 KV | .550 |

For unleaded discs, only D and T apply

CONFIGURATION



HOW TO ORDER

| RL | D90 | X7R | 122 | K | 20 | E | 500 |
|--|-------------------------------|---|--|---|---|--|--|
| CONFIGURATION Radial Leaded (delete for unleaded discs) | DISC SIZE See Above | DIELECTRIC TYPE NPO, N2T, X7R | CAPACITANCE (IN PICOFARADS) Two significant figures followed by the number of zeros Example: 122 = 1200 pF | TOLERANCE J = ± 5%, NPO K = 10% M = 20% | VOLTAGE 9 = 1,000 V 20 = 10 KV 11 = 2,000 V 21 = 11 KV 13 = 3,000 V 22 = 12 KV 14 = 4,000 V 23 = 15 KV 15 = 5,000 V 24 = 20 KV 16 = 6,000 V 25 = 25 KV 17 = 7,000 V 30 = 30 KV 18 = 8,000 V 40 = 40 KV 19 = 9,000 V 50 = 50 KV | CASE E = Epoxy Coated V = Varnish U = Uncoated | LEAD SPACING (LS) .500 inches (delete for unleaded discs) |