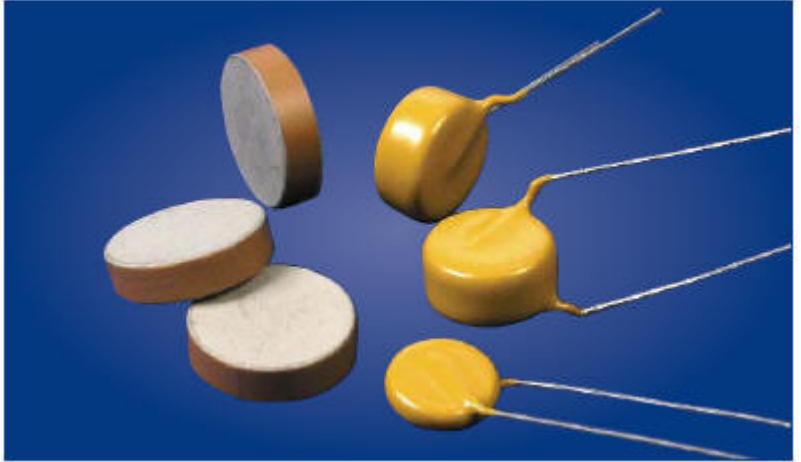


# High Voltage Disc Ceramic Capacitors

## Description:

Disc capacitors are solid ceramic discs of uniform density, metalized 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       | 1.0            | .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       | 1.0            | .500              | 87       | 107 | 2700     | 3300 |
|        | D120       | 1.20           | .500              | 120      | 141 | 3600     | 4400 |



## High Voltage Disc Ceramic Capacitors

|        |      |      |      |     |     |      |      |
|--------|------|------|------|-----|-----|------|------|
| 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 | 1.0  | .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       | 1.0            | .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       | 1.0            | .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       | 1.0            | .500              | 22       | 27  | 680      | 830  |
|         | D120       | 1.20           | .500              | 29       | 35  | 910      | 1100 |



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# High Voltage Disc Ceramic Capacitors

## Style Specifications

(inches)

| Style | D (Max) | S ± .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  | 1.0     | .500     | .032                 |
| D120  | 1.20    | .500     | .032                 |

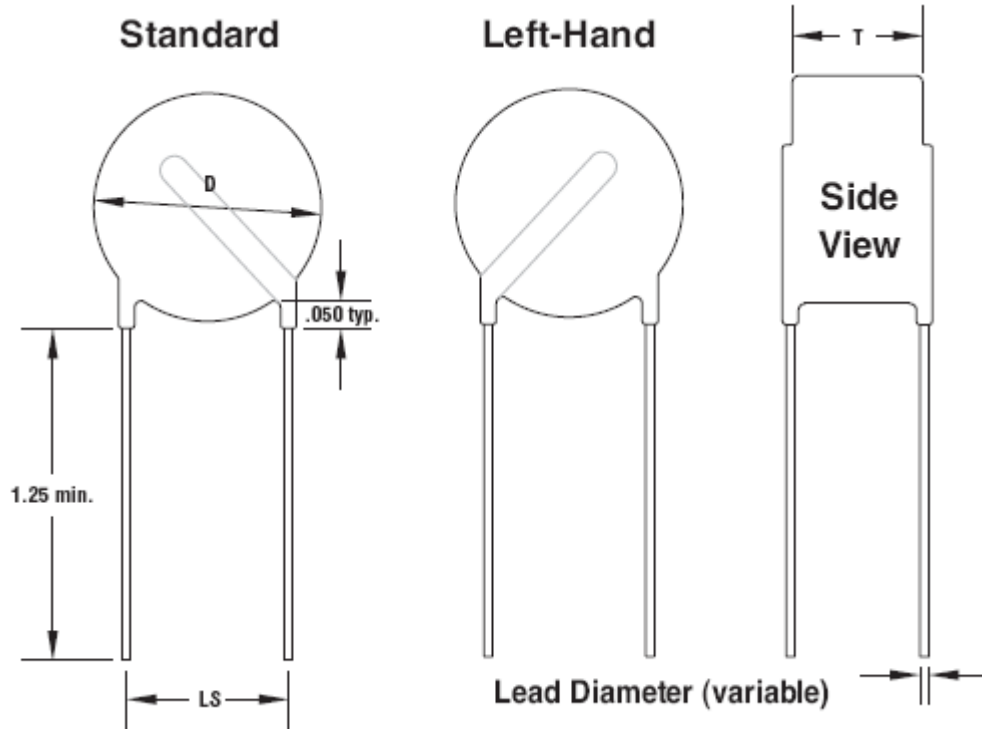
## Voltage vs. Thickness

(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    |

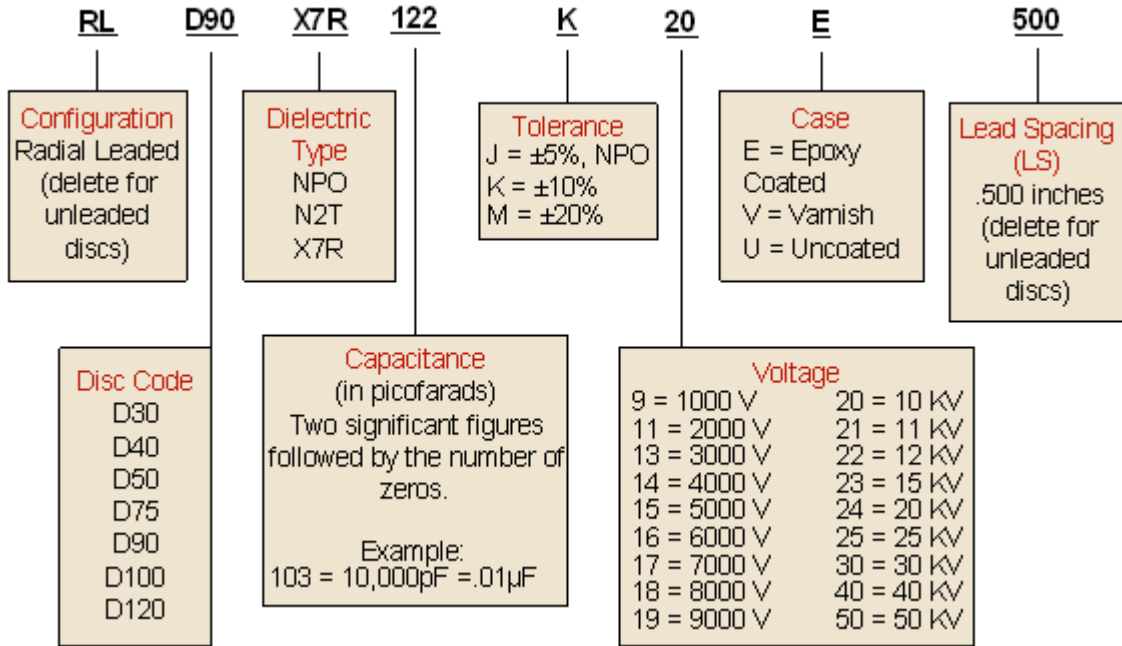
For unleaded discs, only D and T apply.

## Configuration



# High Voltage Disc Ceramic Capacitors

## How To Order



The above example is of Presidio's Manufacturing part number. If a shorter part number is desired, use our [conversion tool](#) to create our Global part number.