

# HIGH VOLTAGE DISC CERAMIC CAPACITORS

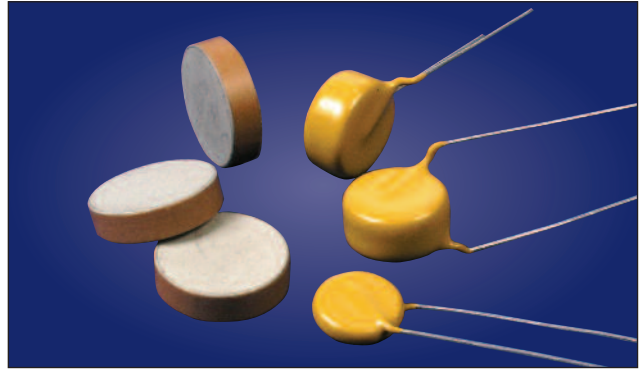
## DESCRIPTION:

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
5,000V	D120	1.20	.500	190	240	6000	7400
	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
7,500V	D100	1.00	.500	87	107	2700	3300
	D120	1.20	.500	120	141	3600	4400
	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
15,000V	D120	1.20	.500	58	71	1800	2200
	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
20,000V	D100	1.00	.500	29	36	910	1100
	D120	1.20	.500	39	47	1200	1500
	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)

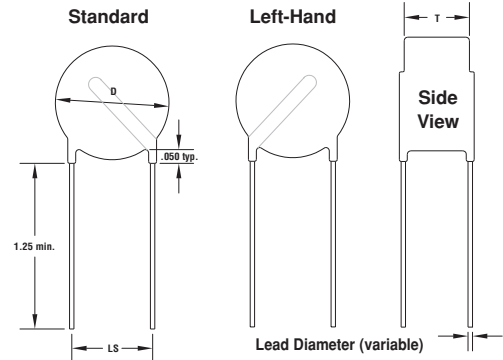
Style	D (Max)	S ± .030	Lead Diameter ± .002
D30	.300	.250	.025
D40	.400	.250	.025
D50	.500	.375	.032
D75	.750	.375	.032
D90	.900	.500	.032
D100	1.00	.500	.032
D120	1.20	.500	.032

## 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
<b>CONFIGURATION</b> Radial Leaded (delete for unleaded discs)	<b>DISC SIZE</b> See Above	<b>DIELECTRIC TYPE</b> NPO, N2T, X7R	<b>CAPACITANCE (IN PICOFARADS)</b> Two significant figures followed by the number of zeros Example: 103 = 10,000 pF = .01µF	<b>TOLERANCE</b> J = ± 5%, NPO K = 10% M = 20%	<b>VOLTAGE</b> 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	<b>CASE</b> E = Epoxy Coated V = Varnish U = Uncoated	<b>LEAD SPACING (LS)</b> .500 inches (delete for unleaded discs)