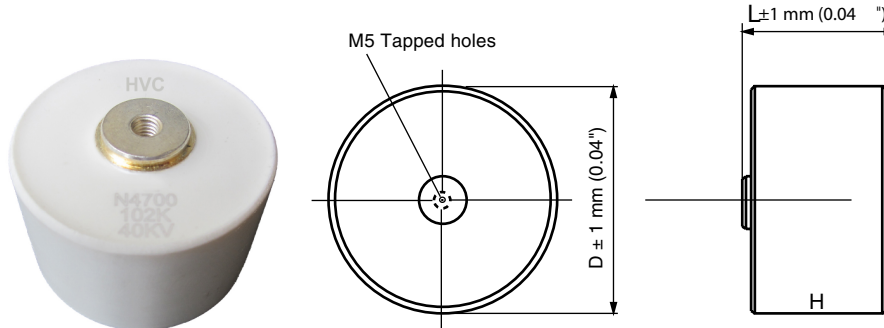


## High Voltage Ceramic Disc DC Capacitors, Screw Terminal Mounting, 10 kV<sub>DC</sub> to 50 kV<sub>DC</sub>



### USAGE

Mainly used in high peak current and high repetition rate circuit. Such as: high voltage doubler, voltage protection, decoupling circuits, laser generator, switching circuits, welding equipment, exchange limit, DC storage, high-frequency coupling, AC and DC filtering applications.

### FEATURES

- Low dissipation factor of 0.1 % at 20kHz to 1000kHz
- N4700 (T3M) Class 1, strontium-based ceramic dielectric
- Negligible piezoelectric/electrostrictive effect
- Screw terminal mounting

### DIELECTRIC STRENGTH

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

### DISSIPATION FACTOR $\tan \delta$

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

### INSULATION RESISTANCE

Min. 200 000 M $\Omega$  at 25 °C

### CORONA LIMIT

< 5 pC at rated AC voltage

### OPERATING TEMPERATURE RANGE

- 30 °C to + 85 °C : N4700,5S,5T,5U,5V  
- 30 °C to + 125 °C : X7R

### APPLICATIONS

- High voltage power supplies
- CO<sub>2</sub> lasers
- X-ray equipment
- Welding equipment
- Medical industrial equipment

### CAPACITANCE RANGE

140 pF to 15000 pF

### RATED VOLTAGE

- 10 000 V<sub>DC</sub> (4000 V<sub>RMS</sub>)
- 15 000 V<sub>DC</sub> (6000 V<sub>RMS</sub>)
- 20 000 V<sub>DC</sub> (8000 V<sub>RMS</sub>)
- 30 000 V<sub>DC</sub> (10 000 V<sub>RMS</sub>)
- 40 000 V<sub>DC</sub> (13 000 V<sub>RMS</sub>)

### CERAMIC DIELECTRIC

N4700 (Class 1)

### MATERIAL

Capacitor elements made from Class 1 ceramic in a molded epoxy case. Screw terminals: brass, silver plated.

### POWER DISSIPATION

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

### CAPACITANCE TOLERANCES

$\pm 10 \%$  ,  $\pm 20 \%$



## High Voltage Ceramic Disc DC Capacitors, Screw Terminal Mounting, 10 kV<sub>DC</sub> to 50 kV<sub>DC</sub>

Num.	Part Number	Dielectric Material	Rated Voltage	Capacitance Value		Product Size (mm)			
			(KV)	Cap (PF)	Tol (%)	D	H	L	M
1	HVCT8G10KVDL561K	N4700	10	560	10	21	16	20	5
2	HVCT8G10KVDL102K	N4700	10	1000	10	25	16	20	5
3	HVCT8G10KVDL202M	N4700	10	2000	20	32	16	20	5
4	HVCT8G10KVDL282M	N4700	10	2800	20	38	16	20	5
5	HVCT8G10KVDL502M	N4700	10	5000	20	48	16	20	5
6	HVCT8G10KVDL802M	N4700	10	8000	20	61	16	20	5
7	HVCT8G15KVDL371K	N4700	15	370	10	21	18	22	5
8	HVCT8G15KVDL102K	N4700	15	1000	10	32	18	22	5
9	HVCT8G15KVDL192K	N4700	15	1900	10	38	18	22	5
10	HVCT8G15KVDL332M	N4700	15	3300	20	48	18	22	5
11	HVCT8G15KVDL532M	N4700	15	5300	20	61	18	22	5
12	HVCT8G20KVDL281K	N4700	20	280	10	21	20	24	5
13	HVCT8G20KVDL561K	N4700	20	560	10	25	20	24	5
14	HVCT8G20KVDL102K	N4700	20	1000	10	32	20	24	5
15	HVCT8G20KVDL142K	N4700	20	1400	10	38	20	24	5
16	HVCT8G20KVDL252M	N4700	20	2500	20	48	20	24	5
17	HVCT8G20KVDL402M	N4700	20	4000	20	61	20	24	5
18	HVCT8G30KVDL191K	N4700	30	190	10	21	24	28	5
19	HVCT8G30KVDL401K	N4700	30	400	10	25	24	28	5
20	HVCT8G30KVDL591K	N4700	30	590	10	32	24	28	5
21	HVCT8G30KVDL941K	N4700	30	940	10	38	24	28	5
22	HVCT8G30KVDL172K	N4700	30	1700	10	48	24	28	5
23	HVCT8G30KVDL272M	N4700	30	2700	20	61	24	28	5
24	HVCT8G30KVDL332M	N4700	30	3300	20	61	24	28	5
25	HVCT8G40KVDL141K	N4700	40	140	10	21	30	34	5
26	HVCT8G40KVDL441K	N4700	40	440	10	32	30	34	5
27	HVCT8G40KVDL701K	N4700	40	700	10	38	30	34	5
28	HVCT8G40KVDL102K	N4700	40	1000	10	45	30	34	5
29	HVCT8G40KVDL132K	N4700	40	1300	10	48	30	34	5
30	HVCT8G40KVDL202M	N4700	40	2000	20	61	30	34	5
31	HVCT8G15KVB272M	B(X7R)	15	2700	20	32	18	22	5
32	HVCT8G30KVB222M	B(X7R)	30	2200	20	38	24	28	5
33	HVCT8G50KVD332M	D(Y5S)	50	3300	20	61	32	36	5
34	HVCT8G50KVD502M	D(Y5T)	50	5000	20	61	32	36	5
35	HVCT8G20KVF103M	F(Y5V)	20	10000	20	45	24	28	5
36	HVCT8G30KVF103M	F(Y5V)	30	10000	20	48	26	30	5
37	HVCT8G50KVF103M	F(Y5V)	50	10000	20	61	38	42	5