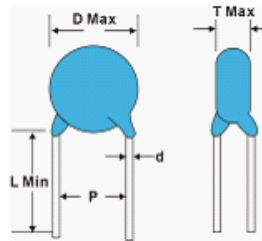
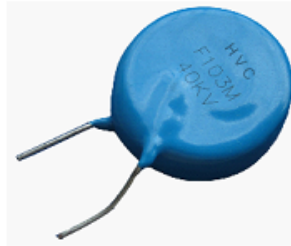


Ceramic Disc Capacitors Class 1 and 2, 1KVdc TO 50KVdc, General Purpose



Capacitors with 7.5 mm (0.30") to 15 mm (0.40") lead spacing(P)

QUICK REFERENCE DATA	
DESCRIPTION	UJ,SL,X5F,X7R,N4700,Y5T,Y5U,Y5V
Voltage (VDC)	1000 to 50000
Min. Capacitance (pF)	10
Max. Capacitance (pF)	33 000
Mounting	Through hole

FEATURES:

- Low losses
- High stability
- High capacitance in small size
- Kinked (preferred) or straight leads
- Compliant to RoHS directive 2002/95/EC

OPERATING TEMPERATURE RANGE:

Class 1: SL, - 25 °C to + 85 °C
Class 2: Y5T, Y5U, Y5V, - 25 °C to + 85 °C
Class 2: X5F, X7R, N4700 - 40 °C to + 125 °C

TEMPERATURE COEFFICIENTS:

Class 1 SL
Class 2 X7R, Y5P, Z5U, Y5V, X5F

CAPACITANCE RANGE:

10 pF to 33 000 pF

RATED DC VOLTAGE:

1 kV to 50 kV

DIELECTRIC STRENGTH:

200 % of rated voltage

APPLICATIONS:

- DC high voltage
- CO₂ lasers
- Pulse high voltage
- SMPS
- HV power supply
- HF ballast

DESIGN:

The capacitors consist of a ceramic disc both sides of which are silver-plated. Connection leads are made of tinned copper.

The capacitors may be supplied with kinked or straight leads with a lead spacing of 5 mm (0.20"), 7.5 mm (0.30") or 10 mm (0.40") and a lead length from 4 mm to 30 mm. The standard tolerance on capacitance is 5 % or 10 % for class 1 capacitors and $\pm 10\%$ or $\pm 20\%$ for class 2 capacitors. Encapsulation is made of blue colored epoxy-resin.

INSULATION RESISTANCE AT 500 VDC:

N4700: $\geq 200\,000\text{ M}\Omega$

UJ,SL,X5F,X7R,Y5T: $\geq 100\,000\text{ M}\Omega$

Y5U,Y5V: $\geq 10\,000\text{ M}\Omega$

TOLERANCE ON CAPACITANCE:

$\pm 5\%$; $\pm 10\%$; $\pm 20\%$; + 80/- 20 %
other tolerances available upon request

DISSIPATION FACTOR:

UJ,SL: 6×10^{-4}

X5F: 1%

X7R: 1.5%

N4700: 0.1% to 0.2%

Y5T: 1%

Y5U,Y5V: 2%

NO.	Part Number	Material	Max (mm)			
			D	T	P	d
1	HVC81-2KV-UJ08-F5-10PK	UJ	8	4	5	0.6
2	HVC81-2KV-UJ08-F5-15PK	UJ	8	4	5	0.6
3	HVC81-2KV-SL08-F5-22PK	SL	8	4	5	0.6
4	HVC81-2KV-SL08-F5-27PK	SL	8	4	5	0.6
5	HVC81-2KV-SL08-F5-33PK	SL	8	4	5	0.6
6	HVC81-2KV-SL08-F5-47PK	SL	8	4	5	0.6
7	HVC81-2KV-SL08-F5-56PK	SL	8	4	5	0.6
8	HVC81-2KV-SL08-F5-68PK	SL	8	4	5	0.6
9	HVC81-2KV-SL08-F5-101K	SL	8	4	5	0.6
10	HVC81-2KV-SL12-F9.5-151K	SL	12	4	9.5	0.6
11	HVC81-2KV-SL12-F9.5-221K	SL	12	4	9.5	0.6
12	HVC81-2KV-SL14-F9.5-331K	SL	14	4	9.5	0.6
13	HVC81-2KV-SL16-F9.5-471K	SL	16	4	9.5	0.6
14	HVC81-2KV-SL18-F9.5-561K	SL	18	4	9.5	0.6
15	HVC81-2KV-X08-F5-101K	X5F	8	4	5	0.6
16	HVC81-2KV-DL06-F5-101K	N4700	6	4	5	0.6
17	HVC81-2KV-X08-F5-221K	X5F	8	4	5	0.6
18	HVC81-2KV-DL08-F5-221K	N4700	8	4	5	0.6
19	HVC81-2KV-DL08-F5-271K	N4700	8	4	5	0.6
20	HVC81-2KV-DL08-F5-331K	N4700	8	4	5	0.6
21	HVC81-2KV-X08-F5-331K	X7R	8	4	5	0.6
22	HVC81-2KV-DL08-F5-471K	N4700	8	4	5	0.6
23	HVC81-2KV-X08-F5-471K	X7R	8	4	5	0.6
24	HVC81-2KV-DL08-F5-561K	N4700	8	4	5	0.6
25	HVC81-2KV-X08-F5-561K	X7R	8	4	5	0.6
26	HVC81-2KV-DL10-F7.5-681K	N4700	10	4	7.5	0.6
27	HVC81-2KV-X08-F5-681K	X7R	8	4	5	0.6
28	HVC81-2KV-DL10-F7.5-102K	N4700	10	4	7.5	0.6

DOWN : Ceramic Disc style
Datasheet 3p.PDF

Incoming search terms: HV
Capacitor,HV Capacitors,HV Ceramic
capacitors,High voltage ceramic disc
capacitor

29	HVC81-2KV-X09-F7.5-102K	X7R	9	4	7.5	0.6
30	HVC81-2KV-DL14-F9.5-222K	N4700	14	4	9.5	0.6
31	HVC81-2KV-X12-F9.5-222K	X7R	12	4	9.5	0.6
32	HVC81-2KV-E08-F9.5-222M	Y5U	8	4	5	0.6
33	HVC81-2KV-DL17-F9.5-272K	N4700	17	4	9.5	0.65
34	HVC81-2KV-D14-F9.5-272K	Y5T	14	4	9.5	0.6
35	HVC81-2KV-E08-F5-272M	Y5U	8	4	5	0.6
36	HVC81-2KV-DL17-F9.5-332K	N4700	17	4	9.5	0.65
37	HVC81-2KV-D14-F9.5-332K	Y5T	14	4	9.5	0.6
38	HVC81-2KV-E08-F5-332M	Y5U	8	4	5	0.6
39	HVC81-2KV-X18-F9.5-472K	X7R	18	4	9.5	0.65
40	HVC81-2KV-D14-F9.5-472K	Y5T	14	4	9.5	0.6
41	HVC81-2KV-E10-F9.5-472M	Y5U	10	4	9.5	0.6
42	HVC81-2KV-D20-F9.5-103K	Y5T	20	4	9.5	0.8
43	HVC81-2KV-E16-F9.5-103M	Y5U	16	4	9.5	0.6
44	HVC81-2KV-F14-F9.5-103M	Y5V	14	4	9.5	0.6

NO.	Part Number	Material	Max (mm)			
			D	T	P	d
45	HVC81-3KV-UJ08-F5-10PK	UJ	8	4.5	5	0.6
46	HVC81-3KV-UJ08-F5-15PK	UJ	8	4.5	5	0.6
47	HVC81-3KV-SL08-F5-22PK	SL	8	4.5	5	0.6
48	HVC81-3KV-SL08-F5-27PK	SL	8	4.5	5	0.6
49	HVC81-3KV-SL08-F5-33PK	SL	8	4.5	5	0.6
50	HVC81-3KV-SL08-F5-47PK	SL	8	4.5	5	0.6
51	HVC81-3KV-SL08-F5-56PK	SL	8	4.5	5	0.6
52	HVC81-3KV-SL08-F5-68PK	SL	8	4.5	5	0.6
53	HVC81-3KV-SL08-F5-101K	SL	8	4.5	5	0.6
54	HVC81-3KV-SL12-F9.5-151K	SL	12	4.5	9.5	0.6
55	HVC81-3KV-SL12-F9.5-221K	SL	12	4.5	9.5	0.6
56	HVC81-3KV-SL14-F9.5-331K	SL	14	4.5	9.5	0.6
57	HVC81-3KV-SL17-F9.5-471K	SL	16	4.5	9.5	0.7
58	HVC81-3KV-SL19-F9.5-561K	SL	18	4.5	9.5	0.7
59	HVC81-3KV-X08-F5-101K	X5F	8	4.5	5	0.6
60	HVC81-3KV-DL06-F5-101K	N4700	6	4.5	5	0.6
61	HVC81-3KV-X08-F5-221K	X5F	8	4.5	5	0.6
62	HVC81-3KV-DL06-F5-221K	N4700	6	4.5	5	0.6
63	HVC81-3KV-DL08-F5-271K	N4700	8	4.5	5	0.6
64	HVC81-3KV-DL08-F5-331K	N4700	8	4.5	5	0.6
65	HVC81-3KV-X08-F5-331K	X7R	8	4.5	5	0.6
66	HVC81-3KV-DL08-F5-471K	N4700	8	4.5	5	0.6
67	HVC81-3KV-X08-F5-471K	X7R	8	4.5	5	0.6
68	HVC81-3KV-DL08-F5-561K	N4700	8	4.5	5	0.6
69	HVC81-3KV-X08-F5-561K	X7R	8	4.5	5	0.6
70	HVC81-3KV-X18-F9.5-472K	X7R	18	4.5	9.5	0.6
71	HVC81-3KV-D14-F9.5-472K	Y5T	14	4.5	9.5	0.6
72	HVC81-3KV-E10-F7.5-472M	Y5U	10	4.5	9.5	0.6

No.	Part Number	Material	Max (mm)			
			D	T	P	d
89	HVC81-50KV-SL12-F12.5-22PK	SL	12	10	12.5	0.8
90	HVC81-50KV-SL16-F12.5-50PK	SL	16	10	12.5	0.8
91	HVC-10KV-X09-F9.5-101K	X5F	9	6	9.5	0.65
92	HVC-10KV-DL06-F9.5-101K	N4700	6	6	9.5	0.65
93	HVC-15KV-DL07-F9.5-101K	N4700	7	6.5	9.5	0.65
94	HVC-20KV-DL08-F9.5-101K	N4700	8	8	9.5	0.65
95	HVC-30KV-DL10-F12.5-101K	N4700	10	9	12.5	0.8
96	HVC-50KV-DL12-F12.5-101K	N4700	12	12	12.5	0.8
97	HVC-10KV-DL08-F9.5-151K	N4700	8	6	9.5	0.65
98	HVC-15KV-DL08-F9.5-151K	N4700	8	7	9.5	0.65
99	HVC-20KV-DL10-F9.5-151K	N4700	10	8	9.5	0.65
100	HVC-30KV-DL12-F12.5-151K	N4700	12	9	12.5	0.8
101	HVC-10KV-D08-F9.5-221K	Y5T	8	6.5	9.5	0.65
102	HVC-15KV-D08-F9.5-221K	Y5T	8	7	9.5	0.65
103	HVC-20KV-DL11 -F9.5-221K	N4700	11	8	9.5	0.65
104	HVC-30KV-DL12-F12.5-221K	N4700	12	9	12.5	0.8
105	HVC-10KV-DL10-F9.5-331K	N4700	10	6.5	9.5	0.65
106	HVC-20KV-D09-F9.5-331K	Y5T	9	7.5	9.5	0.65
107	HVC-10KV-DL12-F9.5-471K	N4700	12	6.5	9.5	0.8
108	HVC-15KV-DL14-F9.5-471K	N4700	14	7	9.5	0.8
109	HVC-20KV-D14-F12.5-501K	Y5T	14	9	12.5	0.8
110	HVC-30KV-DL19-F17.5-501K	N4700	19	11	17.5	0.8
111	HVC-40KV-D21-F20-471K	Y5T	21	17	20	1.2
112	HVC-50KV-D23-F20-471K	Y5T	23	18	20	1.2
113	HVC-10KV-D12-F9.5-102K	Y5T	12	6.5	9.5	0.8
114	HVC-10KV-DL16-F12.5-102K	N4700	16	6.5	12.5	0.8
115	HVC-15KV-DL17-F12.5-102K	N4700	17	7	12.5	0.8
116	HVC-20KV-DL21-F12.5-102K	N4700	21	8	12.5	0.8

117	HVC-20KV-D14-F12.5-102K	Y5T	14	7.5	12.5	0.8
118	HVC-20KV-F10-F9.5-102M	Y5V	10	7.5	9.5	0.65
119	HVC-30KV-D19-F17.5-102M	Y5T	19	11	17.5	0.8
120	HVC-40KV-DL32-F20-102K	N4700	32	16	20	1.2
121	HVC-40KV-D27-F20-102M	Y5T	27	16	20	1.2
122	HVC-50KV-DL32-F20-102M	N4700	32	18	20	1.2
123	HVC-50KV-D32-F20-102M	Y5T	32	22	20	1.2
124	HVC-10KV-D17-F12.5-222M	Y5T	17	6.5	12.5	0.8
125	HVC-10KV-E14-F12.5-222M	Y5U	14	7	12.5	0.8
126	HVC-10KV-F11-F9.5-222M	Y5V	11	7	9.5	0.8
127	HVC-15KV-D19-F12.5-222M	Y5T	19	7.5	12.5	0.8
128	HVC-15KV-E16-F12.5-222M	Y5U	16	7.5	12.5	0.8
129	HVC-20KV-D21-F12.5-222M	Y5T	21	8	12.5	0.8
130	HVC-20KV-E17-F12.5-222M	Y5U	17	9	12.5	0.8
131	HVC-30KV-D27-F12.5-222M	Y5T	27	12	20	1.2
132	HVC-30KV-E24-F20-222M	Y5U	24	14	20	1.2

N0.	Part Number	Material	Max (mm)			
			D	T	P	d
133	HVC-30KV-F19-F17.5-222M	Y5V	19	14	17.5	0.8
134	HVC-40KV-D32-F20-222M	Y5T	32	17	20	1.2
135	HVC-50KV-D40-F20-222M	Y5T	40	22	20	1.2
136	HVC-10KV-D21-F12.5-332M	Y5T	21	7	12.5	0.8
137	HVC-10KV-E16-F12.5-332M	Y5U	16	6.5	12.5	0.8
138	HVC-10KV-F12-F9.5-332M	Y5V	12	6.5	9.5	0.8
139	HVC-15KV-D23-F17.5-332M	Y5T	23	8	17.5	0.8
140	HVC-15KV-E19-F12.5-332M	Y5U	19	8	12.5	0.8
141	HVC-20KV-D27-F20-332M	Y5T	27	9	20	1.2
142	HVC-20KV-E21-F12.5-332M	Y5U	21	9	12.5	0.8
143	HVC-30KV-D32-F20-332M	Y5T	32	12	20	1.2
144	HVC-40KV-D40-F20-332M	Y5T	40	17	20	1.2
145	HVC-50KV-D43-F20-332M	Y5T	43	20	20	1.2
146	HVC-10KV-D27-F20-472M	Y5T	27	8	20	1.2
147	HVC-10KV-E19-F12.5-472M	Y5U	19	7	12.5	0.8
148	HVC-10KV-F16-F12.5-472M	Y5V	16	7	12.5	0.8
149	HVC-15KV-E23-F17.5-472M	Y5U	23	8	17.5	0.8
150	HVC-15KV-F19-F12.5-472M	Y5V	19	9	12.5	0.8
151	HVC-20KV-D32-F20-472M	Y5T	32	10	20	1.2
152	HVC-20KV-E27-F20-472M	Y5U	27	11	20	1.2
153	HVC-20KV-F21-F17.5-472M	Y5V	21	11	17.5	0.8
154	HVC-30KV-D40-F20-502M	Y5T	40	13	20	1.2
155	HVC-30KV-D43-F20-602M	Y5T	43	13	20	1.2
156	HVC-10KV-D40-F20-103M	Y5T	40	8	20	1.2
157	HVC-10KV-E27-F20-103M	Y5U	27	8	20	1.2
158	HVC-10KV-F23-F17.5-103M	Y5V	23	8	17.5	0.8
159	HVC-15KV-E32-F20-103M	Y5U	32	10	20	1.2
160	HVC-15KV-F27-F20-103M	Y5V	27	10	20	1.2

161	HVC-20KV-D43-F20-103M	Y5T	43	11	20	1.2
162	HVC-20KV-F27-F20-103M	Y5V	27	11	20	1.2
163	HVC-30KV-E40-F20-103M	Y5U	40	13	20	1.2
164	HVC-30KV-F32-F20-103M	Y5V	32	13	20	1.2
165	HVC-40KV-F40-F20-103M	Y5V	40	17	20	1.2