

SPECIFICATION

- Operating temperature range: -25°C~+85°C
- Rated working voltage: 2KV to 15KV
- Capacitance: Within tolerance for Class I at 1MHz. Class II at 1 KHz, 1 to 3Vrms, 25°C
- Test voltage: 2KV & above: 2 times rated voltage, 3 ~ 5KV: 1.75 times, 6 ~ 15KV: 1.5 times. 50mA max charging current for 1 ~ 5 seconds.
- Dissipation factor/Q factor:
 Class I: 1MHz, 1 TO 3Vrms, 25°C
 Class II: 1KHz, 1 TO 3Vrms, 25°C
 C≤30PF.....Q≥400+20C B, E.....2.5% Max
 C>30PF.....Q≥ 1,000 F 5% Max
- Insulation Resistance: 10,000 MΩ or 200 MΩ.μF, whichever is smaller.
- Humidity test: Per EIA RS198-C, Method B3, Condition B. ΔC/C: 30% Max for F, 20% Max for others.
- Life test: Per EIA RS198-C, Method C2, Condition C at 85±2°C and 200% rated working voltage.
 ΔC/C: 30% Max for F, 20% Max for others.. DF: 5% max for F, 3% Max for others. I.R.: 10,000 MΩ Min.

Part No. Designation

Example	K	B	3H	102	K	-	L	5	1	6	B
	(1)	(2)	(3)	(4)	(5)		(6)	(7)	(8)	(9)	(10)

1.High voltage—type ‘K’

2.Temperature coefficient (Ref. Fig 1 & 2)

CLASS I : NPO, SL

CLASS II : B, E, F

3. Rated Voltage (D.C.)

Code	Voltage	Code	Voltage
3D	2KV	3I	6KV
3F	3KV	3J	8KV
3G	4KV	4A	10KV
3H	5KV	4C	15KV

4.Rated capacitance

100PF ~ 47000PF in E-24 Series Coded by

Two Significant digits + No. of Zero

5.Tolerance on rated capacitance

J = ±5%, K = ±10%, M = ±20%, Z = +80-20 %

6.Lead Shape. (Ref. Fig. 3.)

Code	Type	
K	Bulk	Short Kink
S		Short Straight
L		Long Straight
A	Taping	Inside kink
B		Straight

7.Lead Spacing. (F)

Code	Dimension. (mm)		
	K	S	L
5	5.0 ± 0.8		
6	6.35 ± 0.8		
7	7.5 ± 0.8		
0	9.5 ± 0.8		

8.Lead Length. (L)

Code	Dimension (mm)		
	K	S	L
5	5.0 ± 0.8	5.0 ± 0.8	
6	6.0 ± 0.8	6.0 ± 0.8	
0	10.0 ± 0.8	10.0 ± 0.8	
1	---	---	25min

9.Lead Wire. (d)

Code	Dia (φ mm)	Rated Voltage (D.C.)
6	0.6 ± 0.05	2KV~ 8KV
8	0.8 ± 0.05	6KV~ 15KV

10. Package

Code	Package	Q'ty
B	Bulk	1000pcs
A	Ammo Pack	2000pcs
R	Tape Reel	2500pcs

HIGH VOLTAGE CERAMIC CAPACITORS 2KV-15KV

RATED VOLTAGE (DC)	Temperature Characteristic / Capacitance (pF)					Size max
	NPO	SL	B (Y5P)	E (Z5U, Y5U)	F (Z5V, Y5V)	Dia (φ mm)
2KV	1-18	10-56	100-470	1000	1000	7.5
	20-39	68-82	560	1500	2200	8.5
	47-56	100	820	2200	3300	9.5
	68	120-150	1000	3300	4700	10.5
	82	180-200	2200	4700	6800	12.5
	100	220	3300	6800-8200	8200-10000	13.5
	120	240-300	4700	10000	---	14.5
	---	330	5600-6800	---	---	15.5
	---	390	8200-10000	---	22000	18.5
	---	---	---	22000	---	20.5
3KV	---	5-47	100-330	---	1000	7.5
	10-22	56-68	390-470	1000	1500	8.5
	25-33	82-100	680	1500	2200	9.5
	47-56	120	820-1000	2200	3300	10.5
	68-100	150	1500	3300	4700	12.5
	---	220	1800	4700	5600-6800	14.5
	---	270	2000-2700	5600	8200-10000	16.5
	---	330	3300-3900	6800	---	18.5
	---	470	4700	8200-10000	223	21.5
	4KV	1-15	1-47	100-270	---	1000
22		56-68	330-560	1000	1500	9.5
33		82	680-820	1500	2200	10.5
39		100	1000	---	---	11.5
47		120	1200	2200	3300	12.5
56		---	1500	3300	4700	14.5
---		150	2200	4700	5600	16.5
82		220	---	6800	---	18.5
100		331	3300	8200	10000	20.5
---		---	4700	10000	---	22.5
5KV	---	---	220	---	---	8.5
	1-12	1-39	270-330	---	1000	9.5
	15-22	47-68	470	1000	---	10.5
	27-33	82-100	680	1500	1500	12.5
	39-47	120-150	1000	---	1800	13.5
	56-68	180-220	1500	1800	2200	15.5
	82-100	270-300	2200	2200	3300	18.5
	---	---	3300	---	---	22.5
	---	---	100-220	---	---	8.5
	---	---	330	---	1000	9.5
6KV	1-12	1-39	470	1000	1200-1500	10.5
	15-22	47-68	560-680	1500-2000	2000-3000	12.5
	27-33	82-100	1000-1200	2200-3000	3300-4700	14.5
	39-47	120-150	1500-1800	3300-4000	5600-6800	16.5
	56-68	180-220	2000-2200	4700-5600	8200	18.5
	82-100	270-300	2700-3300	8200	10000	22.5
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8KV	1-10	1-30	100-330	820	1000	10.5
	12-15	33-47	390-560	1000-1500	1500-2200	12.5
	18-27	56-82	681-1000	2200	2700-3300	14.5
	33-39	100-120	1200-1500	3300	4700	16.5
	47	150	1800-2200	4700	6800	19.5
10KV	1-6	1-15	100-200	100-470	1000	10.5
	7-10	18-30	220-390	560-1000	1200-1500	12.5
	12-18	33-47	470-680	1200-1500	1800-2200	14.5
	20-27	56-75	820-1000	1800-2200	2700-3300	16.5
	30-39	100-120	1200-1500	2700-3900	3900-5600	19.5
15KV	1-5	1-15	100-180	100-470	820	10.5
	6-8	18-22	200-300	560-750	1000-1200	12.5
	10-12	27-33	330-470	820-1200	1500-1800	14.5
	15-18	39-47	560-680	1500-1800	2200-2700	16.5
	20-30	56-82	820-1000	2000-2700	3300-3900	19.5