

## Specification

1. Operating temperature range: -25°C~+85°C
2. Rated working voltage: 2KV to 15KV
3. Capacitance: Within tolerance for Class I at 1MHz. Class II at 1 KHz, 1 to 3Vrms, 25°C
4. 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.
5. 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
6. Insulation Resistance: 10,000 MΩ or 200 MΩμF, whichever is smaller.
7. Humidity test: Per EIA RS198-C, Method B3, Condition B. ΔC/C: 30% Max for F, 20% Max for others.
8. 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	3D	102	K	-	L	5	1	6	B	D	10
	(1)	(2)	(3)	(4)	(5)		(6)	(7)	(8)	(9)	(10)	(11)	(12)
	Type	TC	Voltage	Capacitance	Tolerance		Lead Shape	Lead Spacing	Lead Length	Lead Wire	Package	Dia.	Size

### 1. High voltage—type “K”

### 2. Temperature Coefficient (Ref. Fig 1 & 2) #Page 3, 5

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.) #Page 10, 11

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

### 11. Extra Diameter Code : D

### 12. Diameter in mm

Code	Dia (φ mm)
10	10

Rated Voltage ( DC )	Temperature Characteristic / Capacitance ( pF )					Size max
	NPO	SL	B (Y5P)	E (Z5U, Y5U)	F (Z5V, Y5V)	Dia ( φ mm )
2KV	0.5-27	10 – 68	100 – 470	1000-1500	1000 – 1500	6.5
	30-39	82-100	560-1000	1800-2700	1800-2700	7.5
	47-68	120-150	1200-1500	3000-3900	3000-5000	8.5
	-	180-220	1800	4700-5000	5600 – 6800	9.5
	75-82	270-300	2200	5600-6800	10000	10.5
	-	330-390	3300	10000		11.5
	100-120					12.5
		470	3900-5000		15000-18000	13.5
			5600-6800	15000-18000	20000-22000	15.5
		560				16.5
			10000	20000-22000		17.5
	3KV	0.5-18	10-56	100-470	1000	1000
20-30		68-82	560-680	1200	1200-2000	7.5
33		100	820-1000	1500-1800	2200-2700	8.5
		120-150		2000-2700	3000-5000	9.5
36-47		180	1200-1500	3000-3900	5600-6800	10.5
		200	1800-2200	4700-5000	8200	11.5
56-68						12.5
		220-300	2700-3300	5600		13.5
82				6800		14.5
		330	3900-4700	8200-10000	10000	15.5
100		390				16.5
		470-560				18.5

For Voltage higher than 3KV, please contact us for separate data sheet with the diameter of disc capacitor.