

HIGH VOLTAGE CERAMIC CAPACITOR 2KV-15KV

SPECIFICATION:

- OPERATING TEMPERATURE RANGE: -25°C $+85^{\circ}\text{C}$.
- RATED WORKING VOLTAGE: 2KV TO 15KV
- CAPACITANCE: WITHIN THE TOLERANCE FOR CLASS I AT 1MHz, CLASS II AT 1 KHz, 1 TO 3Vrms, 25°C
- TEST VOLTAGE: 2KV & ABOVE: 2 TIMES RATED VOLTAGE, 10KV & ABOVE: 1.5 TIMES RATED VOLTAGE, 50 mA MAX CHARGING CURRENT
- DISSIPATION FACTOR/Q FACTOR:
 CLASS I: 1MHz, 1 TO 3Vrms, 25°C
 $C \leq 30\text{PF}$ $Q \geq 400 + 20C$
 $C > 30\text{PF}$ $Q \geq 1,000$
 CLASS II: 1KHz, 1 TO 3Vrms, 25°C
 B, E 2.5% MAX
 F 5% MAX
- INSULATION RESISTANCE: 10,000 M Ω or 200 M Ω μF , WHICHEVER IS THE SMALLER.
- HUMIDITY TEST: PER EIA RS198-C, METHOD B3, CONDITION B. $\Delta\text{C}/\text{C}$: 30% MAX FOR F, 20% MAX FOR OTHERS
- LIFE TEST: PER EIA RS198-C, METHOD C2, CONDITION C AT $85 \pm 2^{\circ}\text{C}$ and 200% RATED WORKING VOLTAGE
 $\Delta\text{C}/\text{C}$: 30% MAX FOR F, 20% MAX FOR OTHERS. DF: 5% MAX FOR F, 3% MAX FOR OTHERS, I.R.: 10,000 M Ω MIN

1. High Voltage — Type 'K'

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

CLASS I : NPO, N750, SL
 CLASS II : B, E, F.

3. Rated Voltage (D.C.)

Code	Voltage	Code	Voltage
3D	2KV	3J	8KV
3F	3KV	4A	10KV
3G	4KV	4B	12KV
3H	5KV	4C	15KV
3I	6KV		

4. Rated capacitance

100PF ~ 47000PF in E-24 Series Coded by
 Two Significant digits + No. of Zero

5. Tolerance on rated capacitance.

J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$
 Z = $+80 - 20\%$ P = $+100 - 0\%$

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

Code	Type
K	Short Kink
S	Bulk Short Straight
L	Long Straight

7. Lead Spacing. (F)

Code	Dimension. (mm)		
	K	S	L
5	5.0 ± 0.8		
6	6.3 ± 0.8		
7	7.5 ± 0.8		
0	10.0 ± 0.8		

8. Lead Length. (L)

Code	Dimension (mm)		
	K	S	L
3	3.5 ± 1.0	3.5 ± 1.0	3.5 ± 1.0
5	5.0 ± 0.8	5.0 ± 0.8	5.0 ± 0.8
6	6.3 ± 0.8	6.3 ± 0.8	6.3 ± 0.8
0	10.0 ± 0.8	10.0 ± 0.8	10.0 ± 0.8
1	—	—	25min

9. Lead Wire. (d)

8	0.8 ± 0.05	2KV ~ 15KV
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10. Grade

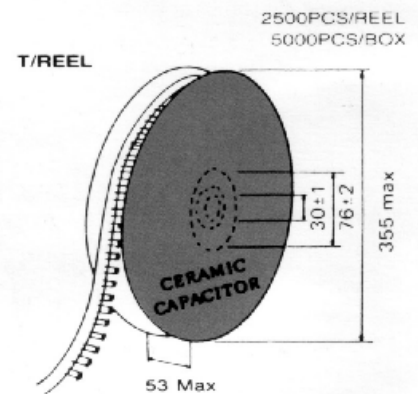
Code	Temp. Range
Y	$-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Z	$-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Part Code Designation

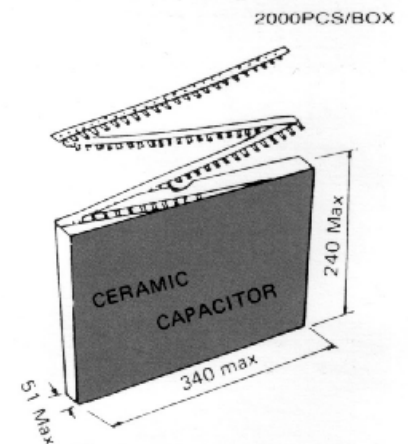
Example: $\frac{\text{K}}{(1)} \frac{\text{B}}{(2)} \frac{3\text{H}}{(3)} \frac{120}{(4)} \frac{\text{K}}{(5)} - \frac{\text{L}}{(6)} \frac{5}{(7)} \frac{5}{(8)} \frac{5}{(9)} \frac{\text{Y}}{(10)}$

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RATED VOLT VOLT/DC	TEMP. CHARACTERISTICS/CAPACITANCE (PF)				MAX m/m
	SL	Y5P (B)	Z5U (E)	Z5V (F)	
2KV	1-15	100-470	-	1000	7
	5-22	560	1000	2200	8
	10-33	820	1500	3300	9
	22-47	1000	2200	4700	10
	33-82	2200	3300	6800	12
	50-100	3300	4700	8200	14
	82-220	4700	6800-8200	10000	16
	100-330	5600-6800	10000	22000	18
	220-470	8200	-	-	20
	290-680	10000	22000	47000	24
3KV	1-10	100-330	-	1000	7
	5-15	390-970	1000	1500	8
	10-22	680	1500	2200	9
	20-33	320-1000	2200	3300	10
	27-47	1500	3300	4700	12
	33-82	1800	4700	5600	14
	80-150	2000-2700	5000	10000	16
	100-	3300-3900	6800	-	18
	200-330	4700	8200-10000	22000	20
	-	-	-	-	-
4KV	1-15	100-270	-	1000	8
	10-22	330-560	1000	1500	9
	20-32	680-820	1500	2200	10
	30-45	1000-1200	2200	3300	12
	40-72	1500	3300	4700	14
	-	2200	4700	5600	16
	70-120	-	6800	-	18
	180-220	3300	8200	10000	20
	220-390	4700	10000	-	22
	-	-	-	-	-
5KV	1-15	220	-	-	8
	16-22	270-330	-	1000	9
	23-33	470	1000	-	10
	34-47	680	1500	1500	12
	50-68	1000	-	1800	13
	-	1500	1800	2200	15
	70-100	2200	2200	3300	18
	120-220	3300	-	-	22
6KV	1-20	220	-	-	8
	15-27	470	-	1000	10
	20-39	680-820	1000	1500	12
	30-68	1000	1500	1800	14
	50-100	1500	1800	2200	16
	80-160	1800	2200	3300	18
	150-220	-	-	-	20
	200-350	2200	-	-	22
8KV	1-18	100	-	-	9
	10-27	220	470-680	-	10
	20-36	330-420	1000	-	12
	30-60	560-680	1500	-	14
	50-100	1000	2000-2200	-	16
10KV	1-15	100	-	-	10
	10-30	220-270	-	-	12
	20-50	330	-	-	14
	30-82	470-680	1000	-	16
	50-120	1000	-	-	18
	100-150	1500	2200	-	22
12KV	-	100	-	-	10
	-	220-330	-	-	12
	-	470	-	-	14
	-	680	1000	-	16
	-	1200	1500	-	20
15KV	-	100-150	-	-	10
	-	220	-	-	12
	-	330-470	-	-	14
	-	680	-	-	18
	-	100	1000	-	22



RADIAL TYPE
T/BOX

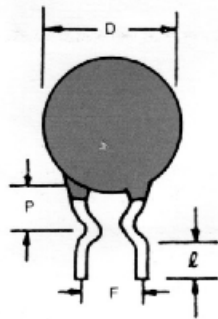


REMARK: CUSTOMER DESIGN
AVAILABLE UPON
REQUEST.

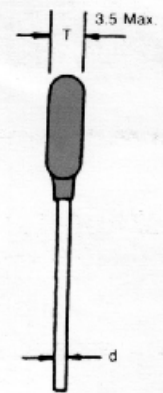
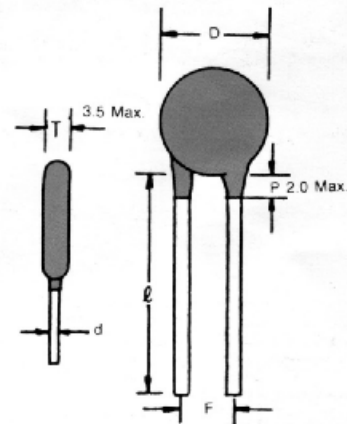
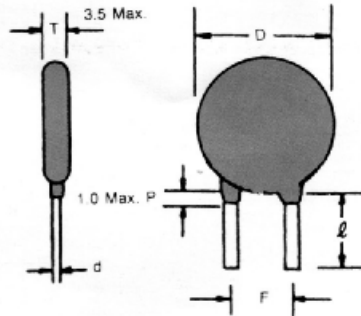
Fig. 3 (Lead Shape)

(6-3) L Type

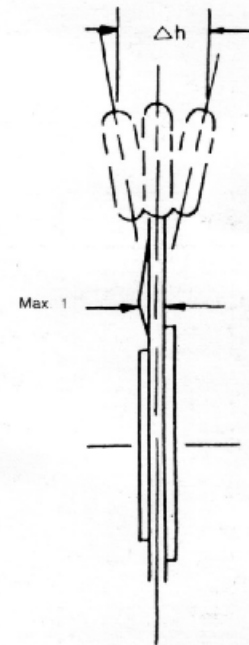
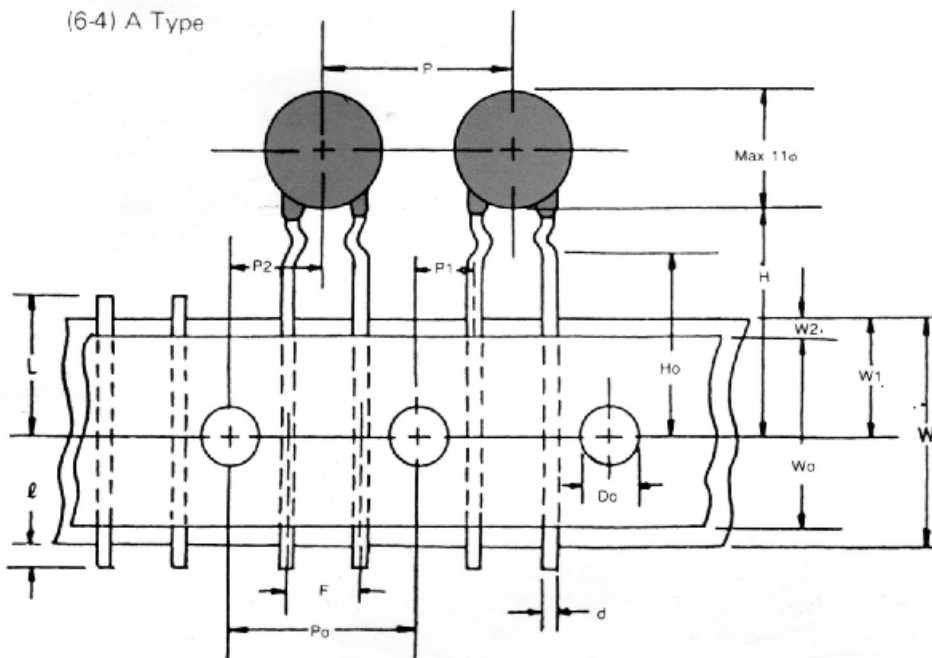
(6-1) K Type



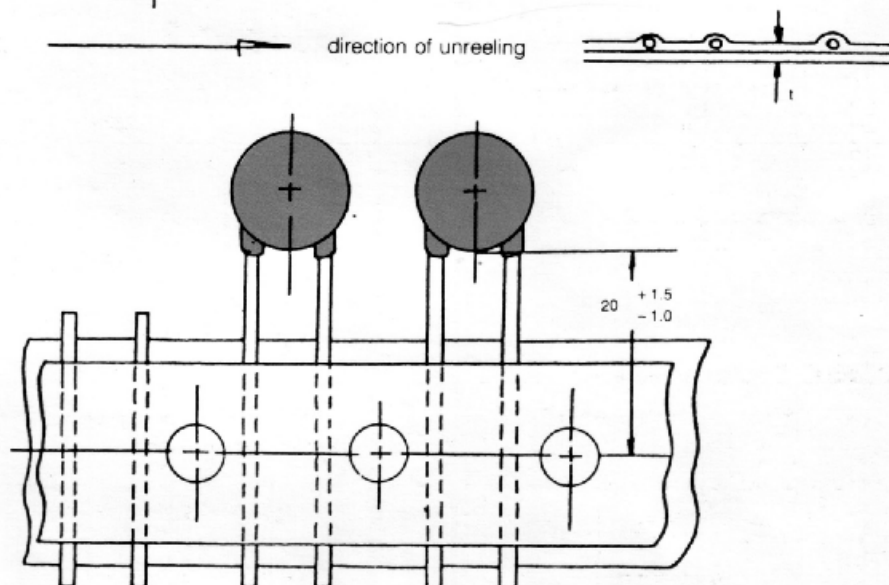
(6-2) S Type



(6-4) A Type



(6-5) B Type



Unit: mm

Symbol	P	P ₀	P ₁	P ₂	d	F	Δh	W	W ₀	W ₁	W ₂	l	D ₀	t	L	H	H ₀
Dimension	12.7	12.7	3.85	6.35	0.6	5	0	18	12.5	9	3	2	4	0.7	11	20	16
Tolerance	±1	±0.3	±0.7	±1.3	+0.06 -0.05	±0.8	±2	±1 ±0.5	Min	+0.75 -0.5	Max	Max	±0.3	±0.2	Max	+1.5 -1.0	±0.5