

# HIGH VOLTAGE CERAMIC CAPACITOR 2KV-15KV



## SPECIFICATION:

- OPERATING TEMPERATURE RANGE:  $-25^{\circ}\text{C}$   $+85^{\circ}\text{C}$ .
- RATED WORKING VOLTAGE: 2KV TO 15KV
- CAPACITANCE: WITHIN THE TOLERANCE FOR CLASS I AT 1MHz, CLASS II AT 1 KHz, 1 TO 3Vrms,  $25^{\circ}\text{C}$
- 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,  $25^{\circ}\text{C}$   
 $C \leq 30\text{PF}$  .....  $Q \geq 400 + 20C$   
 $C > 30\text{PF}$  .....  $Q \geq 1,000$   
 CLASS II: 1KHz, 1 TO 3Vrms,  $25^{\circ}\text{C}$   
 B, E ..... 2.5% MAX  
 F ..... 5% MAX
- INSULATION RESISTANCE: 10,000 M $\Omega$  or 200 M $\Omega$   $\mu\text{F}$ , 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 $\Omega$  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	$5.0 \pm 0.8$		
6	$6.3 \pm 0.8$		
7	$7.5 \pm 0.8$		
0	$10.0 \pm 0.8$		

### 8. Lead Length. (L)

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

### 9. Lead Wire. (d)

8	$0.8 \pm 0.05$	2KV ~ 15KV
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### 10. Grade

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

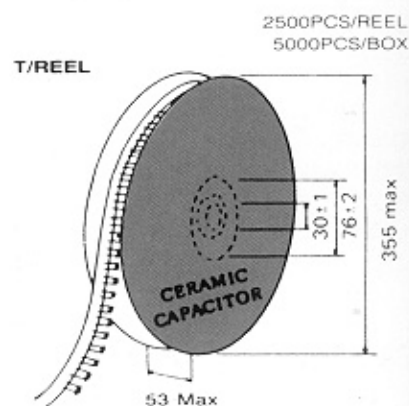
## Part Code Designation

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

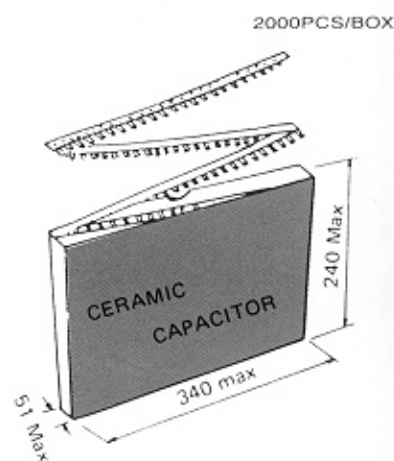
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## LAUBE

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
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.

