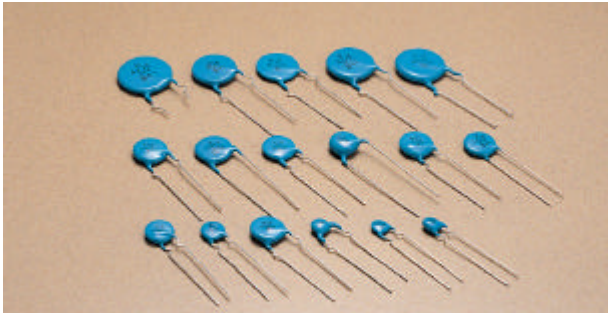


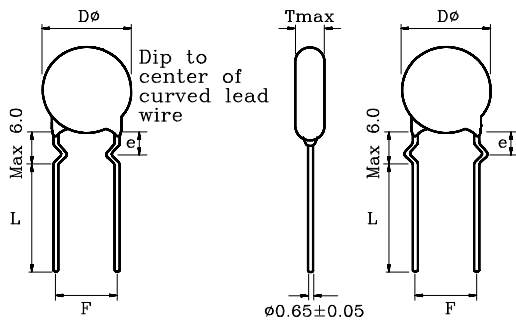
# Mid-High Voltage Ceramic Capacitors


## Low Loss Mid-High Voltage Ceramic Capacitors



### MARKING

1. Characteristic
2. Nominal Capacitance
3. Capacitance Tolerance
4. Working Voltage
5. Manufacturer
6. Manufactured Date : Marked By Code  
(Omitted for less than 9.5mm $\phi$  in outer diameter.)



1. BL capacitor : Low loss heavy duty mid-high voltage ceramic capacitor
2. Manufacturer : marked by symbol   
(Omitted for less than 9.5mm $\phi$  in outer diameter.)

### DIMENSIONS

Part Number	* Forming Style	* Taping Form	Capacitance (pF)	Dimensions (mm)		Part Number	* Forming Style	* Taping Form	Capacitance (pF)	Dimensions (mm)	
				D $\phi$	F					D $\phi$	F
DL3DYB101K	615, 895	725	100	6.5	7.5 $\pm$ 1.5	DL3DYB561K	615, 895	725	560	8.5	7.5 $\pm$ 1.5
DL3DYB121K	615, 895	725	120	6.5	7.5 $\pm$ 1.5	DL3DYB681K	615, 895	725	680	9.5	7.5 $\pm$ 1.5
DL3DYB151K	615, 895	725	150	6.5	7.5 $\pm$ 1.5	DL3DYB821K	615, 895	725	820	9.5	7.5 $\pm$ 1.5
DL3DYB181K	615, 895	725	180	6.5	7.5 $\pm$ 1.5	DL3DYB102K	615, 895	725	1000	11.5	7.5 $\pm$ 1.5
DL3DYB221K	615, 895	725	220	6.5	7.5 $\pm$ 1.5	DL3DYB122K	615, 895	725	1200	11.5	7.5 $\pm$ 1.5
DL3DYB271K	615, 895	725	270	6.5	7.5 $\pm$ 1.5	DL3DYB152K	615, 895	725	1500	12.5	7.5 $\pm$ 1.5
DL3DYB331K	615, 895	725	330	6.5	7.5 $\pm$ 1.5	DL3DYB182K	617, 897	830	1800	15.5	10 $\pm$ 1.5
DL3DYB391K	615, 895	725	390	6.5	7.5 $\pm$ 1.5	DL3DYB222K	617, 897	830	2200	15.5	10 $\pm$ 1.5
DL3DYB471K	615, 895	725	470	7.5	7.5 $\pm$ 1.5	-	-	-	-	-	-

Note) \* : See page 17

### FEATURES

1. BL capacitors exhibit exceptional stability for self heating, under condition for use high frequency pulse circuit, horizontal out-put circuit and other power circuit.
2. Generally, the mid high voltage capacitor has big capacitance drift and low dissipation factor, because the material has low capacitance drift and low dissipation factor with applied DC and AC voltage.
3. BL capacitors are coated by unframeable resin (Conform UL 94V-O).

### APPLICATIONS

1. For high frequency pulse circuit, horizontal out-put circuit in TV and power circuit.
2. For noise suppressor in audio circuit.

### SPECIFICATION

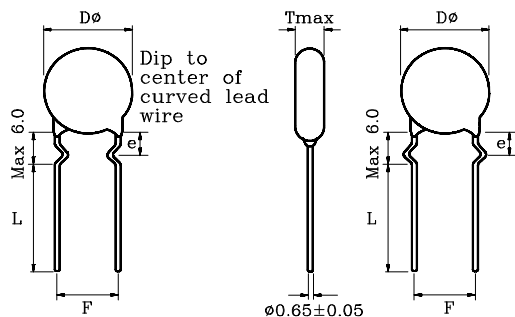
Temperature Range	-25 ~ +85 $^{\circ}$ C
Temperature Characteristic	(JIS : B) $\pm$ 10% (EIA : Y5P)
Capacitance Tolerance	$\pm$ 10% (K)
Working Voltage	DC 2kV
Testing Voltage	DC 4kV
Dissipation Factor (tan $\delta$ )	0.5% (max.)
Insulation Resistance	10,000 M $\Omega$ min at 500V DC
Testing Condition	1kHz 0.5~5Vrms at 25 $^{\circ}$ C


# Mid-High Voltage Ceramic Capacitors

## High Temp. Low Loss Mid-High Voltage Ceramic Capacitors

### MARKING

1. Characteristic(HL, Omitted for SL)
2. Nominal Capacitance
3. Capacitance Tolerance
4. Working Voltage
5. Manufacturer
6. Manufactured Date : Marked By Code  
(Omitted for less than 9.5mm $\phi$  in outer diameter.)



1. HL capacitor : High temp low loss heavy duty mid-high voltage ceramic capacitor
2. Manufacturer : marked by symbol   
(Omitted for less than 9.5mm $\phi$  in outer diameter.)

### FEATURES

1. HL capacitors exhibit exceptional stability for self heating, under condition for use high frequency pulse circuit, horizontal out-put circuit, snubber circuit in SMPS and other power circuit.
2. Generally, the mid high voltage capacitor has big capacitance drift and low dissipation factor, because the material has low capacitance drift and low dissipation factor with applied DC and AC voltage.
3. HL capacitors are coated by unframeable resin (Conform UL 94V-O).

### APPLICATIONS

1. For high frequency pulse circuit, horizontal out-put circuit in TV, snubber circuit in SMPS and power circuit.
2. For noise suppressor in audio circuit.

### SPECIFICATION

*Temperature Range	-25 ~ +85°C
Temperature Characteristic	±15%(-25 ~ +85°C) +15%(+85 ~ +125°C) -30%
Capacitance Tolerance	±10% (K)
Working Voltage	1 ~ 2kV
Testing Voltage	1kV:2kV, 2kV:4kV
Dissipation Factor (tan $\delta$ )	0.4% (max.)
Insulation Resistance	10,000 M $\Omega$ min at 500V DC
Testing Condition	1kHz 0.5~5Vrms at 25°C

(NOTE) \* : Max applicable temperature includes 20°C on capacitors self-heating among 125°C

### DIMENSIONS

Working Voltage (kV.DC)	Series	* Forming Style	* Taping Form	Dimensions(mm)			Characteristic & Capacitance(pF)	
				D	T	F	SL	R
1kV	DG	613,793	959	6.5	4.5	5±1.5	10 ~ 120	-
		613,793	959	7.5		5±1.5	150 ~ 180	220 ~ 470
		613,793	959	8.5		5±1.5	220	680
		613,793	959	9.5		5±1.5	270	1000
		615,895	725	11.5		7.5±1.5	330 ~ 470	1500
		615,895	725	13.5		7.5±1.5	560	2200
		617,897	837	15.5		10±1.5	-	3300
		617,897	837	17.5		10±1.5	-	4700
2kV		615,895	825	6.5	5.0	7.5±1.5	10 ~ 68	-
		615,895	825	7.5		7.5±1.5	82 ~ 100	220 ~ 270
		615,895	825	8.5		7.5±1.5	120 ~ 150	330 ~ 390
		615,895	825	9.5		7.5±1.5	180	470 ~ 560
		615,895	825	11.5		7.5±1.5	220 ~ 270	680 ~ 820
		615,895	825	13.5		7.5±1.5	330 ~ 390	1000 ~ 1500
		617,897	837	15.5		10±1.5	470 ~ 560	1800 ~ 2200
		617,897	837	17.5		10±1.5	-	2700
3kV	617,897	837	19.5	6.0	10±1.5	-	3300	
	617,897	837	21.5		10±1.5	-	3900 ~ 4700	
	615,895	825	6.5		7.5±1.5	10 ~ 39	-	
	615,895	825	7.5		7.5±1.5	47 ~ 56	150 ~ 270	
	615,895	825	8.5		7.5±1.5	68 ~ 82	330	
	615,895	825	9.5		7.5±1.5	100	390	
	615,895	825	11.5		7.5±1.5	120 ~ 180	470 ~ 680	
	615,895	825	13.5		7.5±1.5	220	820 ~ 1000	
617,897	837	15.5	10±1.5	270 ~ 330	1200 ~ 1500			
617,897	837	17.5	10±1.5	390	1800 ~ 2200			
617,897	837	19.5	10±1.5	-	2700			

Note) \* : See page 17

# Mid-High Voltage Ceramic Capacitors

## Mid-High Voltage Ceramic Capacitors

### ● Marking

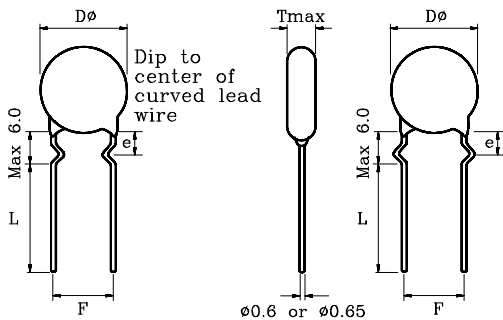
1. Characteristic
2. Nominal capacitance
3. Capacitance tolerance
4. Working voltage
5. Manufacturer
6. Manufactured Date

### ● CAPACITANCE TOLERANCE

Temperature Characteristic	UJ	SL	B(Y5P)	E(Y5U)	F(Y5U)
Mark	J.K	J.K	K	Z	Z
Tolerance	J : ±5%, K : ±10%		±10%	+80~-20%	+80~-20%

### ● SPECIFICATION

Item	T.C	HIK
Temperature Range	-25~+85℃	
Working Voltage	1~4kV	
Testing Voltage	1KV : 2kV 2KV : 4kV 3KV : 6kV 4KV : 8kV 1-5 Sec (50mA. max.)	
Dissipation Factor	Q More than 30pF (1000. min.) Less than 30pF (400+20XC min)	tan δ 2.5% max.
Insulation Resistance	10,000MΩ min (500V DC)	
Testing Condition	1MHz (0.5~5Vrms) at 25℃	1kHz (0.5~5Vrms) at 25℃



### ● DIMENSIONS

Working Voltage (kV. DC)	Series	* Forming Style	* Taping Form	Dimensions (mm)			Characteristic & Capacitance (pF)				
				D	T	F	U (N750)	SL	B(Y5P)	E(Y5U)	F(Y5V)
1kV	DM	613, 793	959	6.5	4.0	5±1.5	13~36	10~62	100~1000	1000	-
	DM	613, 793	959	7.5		5±1.5	39~51	68~91	-	-	-
	DM	613, 793	959	8.5		5±1.5	56~68	100~120	1200~1500	2200	4700
	DM	613, 793	959	9.5		5±1.5	75~91	130~160	1800~2200	-	-
	DM	615, 895	725	11.5		7.5±1.5	100~130	180~240	-	3300	10000
	DM	615, 895	725	13.5		7.5±1.5	150~180	270~330	2700~4700	4700	-
	DM	617, 897	830	15.5		10±1.5	200~270	360~470	-	-	22000
	DM	617, 897	830	17.5		10±1.5	-	-	5600	10000	-
	DM	617, 897	830	19.5		10±1.5	-	-	6800~10000	-	-
2kV	DM	613, 793	959	6.5	5.0	5±1.5	13~27	10~47	100~470	-	-
	DM	613, 793	959	7.5		5±1.5	30~39	51~75	560~680	-	-
	DM	613, 793	959	8.5		5±1.5	43~51	82~91	820~1200	1000	-
	DM	613, 793	959	9.5		5±1.5	56~68	100~120	-	-	-
	DM	615, 895	725	11.5		7.5±1.5	75~110	130~200	1500~2200	2200	-
	DM	615, 895	725	13.5		7.5±1.5	120~130	200~240	-	-	10000
	DM	617, 897	830	15.5		10±1.5	150~200	270~330	2700~4700	4700,10000	-
	DM	617, 897	830	17.5		10±1.5	-	390	-	-	22000
	DM	617, 897	830	21.5		10±1.5	-	-	-	-	-
3kV	DM	615, 895	825	6.5	6.0	7.5±1.5	13~22	10~39	-	-	-
	DM	615, 895	825	7.5		7.5±1.5	24~33	43~56	100~560	-	-
	DM	615, 895	825	8.5		7.5±1.5	36~43	62~75	680	-	-
	DM	615, 895	825	9.5		7.5±1.5	47~56	82~100	820	1000	-
	DM	615, 895	825	11.5		7.5±1.5	62~91	110~160	1000~1500	-	-
	DM	615, 895	825	13.5		7.5±1.5	101~110	180~200	1800~2200	2200	-
	DM	617, 897	830	15.5		10±1.5	120~160	220~270	2700	-	10000
	DM	617, 897	830	17.5		10±1.5	180~200	-	3300	4700	-
4kV	DM	615, 895	825	9.5	6.0	7.5±1.5	-	-	470	-	-
	DM	615, 895	825	13.5		7.5±1.5	-	-	1000	-	-

Note) \* : See page 17