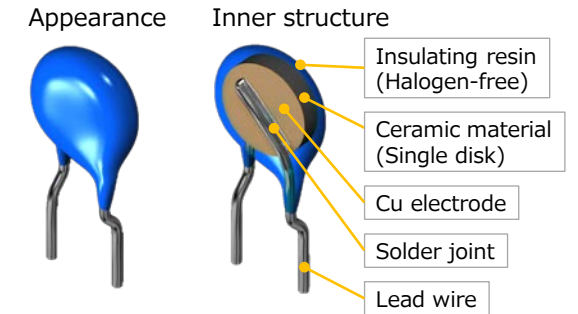


# CC45 series : Commercial grade

## / Low dissipation at high frequency (Temperature compensated)

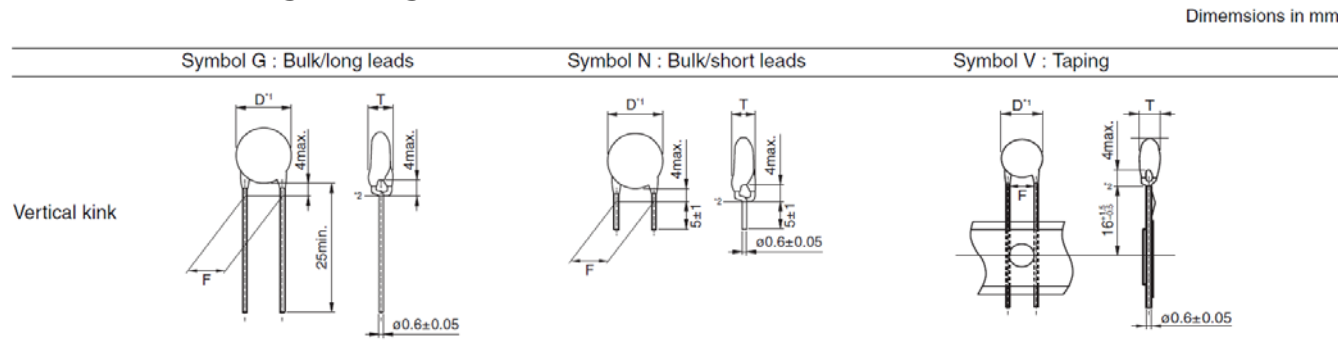
### <FEATURES>

- > Low dissipation factor and decreased self-heating temperature in the high frequency and high voltage application.
- > Rated voltage of 6kV is available.
- > Conform to RoHS directive due to lead(Pb) free of lead-wire and internal solder material.
- > Compatible with halogen-free external resin coating.



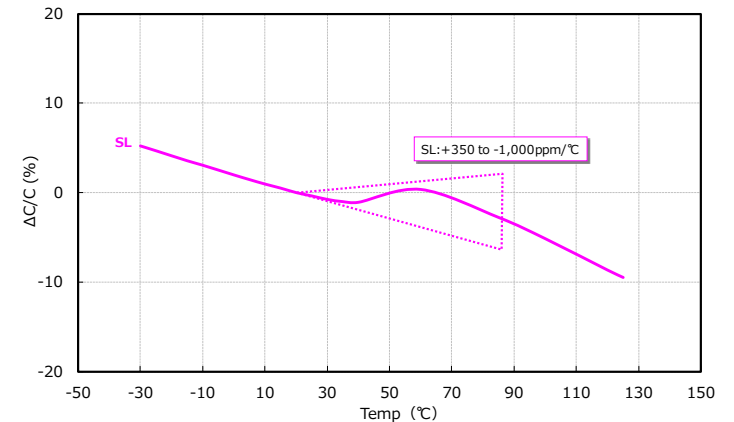
<PART NUMBER>	CC45	SL	3AD	101	J	Y	□	N	A		
	Series name*	Temperature characteristic	Rated voltage	Nominal capacitance		Capacitance tolerance		Class	Lead-wire type	Application classification	Internal code
	SL	+350 to -1,000ppm/°C	3AD 1kV DC 3DD 2kV DC 3FD 3kV DC 3JD 6kV DC	030 3pF 220 22pF 471 470pF	C ±0.25pF D ±0.5pF J ±5%			G Long lead N Short lead V Taping	N General	A Halogen-free	

### < LEAD-WIRE SHAPES >



TDK's standard product is vertical kink. TDK recommends short leads for bulk products.  
 \*1 Body diameter (D) is reference value if D is smaller than maximum dimension of lead to lead distance (F).  
 \*2 Coating on leads shall not extend beyond the bottom of vertical kink.

### <TEMPERATURE CHARACTERISTICS>



# CC45 series : Commercial grade

## / Low dissipation at high frequency (Temperature compensated)

Rated Voltage: 1kV DC

Capacitance (pF)	Temperature characteristic SL	Part No.	Dimensions (mm)		
			D max.	T max.	F
10		CC45SL3AD100JY*NA	(5.5)	5.0	5.0±1.5
12		CC45SL3AD120JY*NA	(5.5)	5.0	5.0±1.5
15		CC45SL3AD150JY*NA	(5.5)	5.0	5.0±1.5
18		CC45SL3AD180JY*NA	(5.5)	5.0	5.0±1.5
22		CC45SL3AD220JY*NA	(5.5)	5.0	5.0±1.5
27		CC45SL3AD270JY*NA	(5.5)	5.0	5.0±1.5
33		CC45SL3AD330JY*NA	(5.5)	5.0	5.0±1.5
39		CC45SL3AD390JY*NA	(5.5)	5.0	5.0±1.5
47		CC45SL3AD470JY*NA	(5.5)	5.0	5.0±1.5
56		CC45SL3AD560JY*NA	(5.5)	5.0	5.0±1.5
68		CC45SL3AD680JY*NA	(5.5)	5.0	5.0±1.5
82		CC45SL3AD820JY*NA	(6.0)	5.0	5.0±1.5
100		CC45SL3AD101JY*NA	(6.5)	5.0	5.0±1.5
120		CC45SL3AD121JY*NA	7.0	5.0	5.0±1.5
150		CC45SL3AD151JY*NA	7.5	5.0	5.0±1.5
180		CC45SL3AD181JY*NA	8.0	5.0	5.0±1.5
220		CC45SL3AD221JY*NA	8.5	5.0	5.0±1.5
270		CC45SL3AD271JY*NA	9.0	5.0	5.0±1.5
330		CC45SL3AD331JY*NA	10.0	5.0	5.0±1.5
390		CC45SL3AD391JY*NA	10.5	5.0	5.0±1.5
470		CC45SL3AD471JY*NA	11.5	5.0	7.5±1.5

CC45 series lineup

[https://product.tdk.com/en/search/capacitor/ceramic/lead-disc/list#tag%5B%5D=com\\_cc45&l=100&p=1&c=part\\_no-part\\_no&d=0](https://product.tdk.com/en/search/capacitor/ceramic/lead-disc/list#tag%5B%5D=com_cc45&l=100&p=1&c=part_no-part_no&d=0)

\* Body diameter (D) is reference value if D is smaller than maximum dimension of lead to lead distance (F).

# CC45 series : Commercial grade

## / Low dissipation at high frequency (Temperature compensated)

Rated Voltage: 2kV DC

Capacitance (pF)	Temperature characteristic SL	Part No.	Dimensions (mm)		
			D max.	T max.	F
10		CC45SL3DD100JY*NA	(5.5)	5.0	5.0±1.5
12		CC45SL3DD120JY*NA	(5.5)	5.0	5.0±1.5
15		CC45SL3DD150JY*NA	(5.5)	5.0	5.0±1.5
18		CC45SL3DD180JY*NA	(5.5)	5.0	5.0±1.5
22		CC45SL3DD220JY*NA	(5.5)	5.0	5.0±1.5
27		CC45SL3DD270JY*NA	(5.5)	5.0	5.0±1.5
33		CC45SL3DD330JY*NA	(5.5)	5.0	5.0±1.5
39		CC45SL3DD390JY*NA	(5.5)	5.0	5.0±1.5
47		CC45SL3DD470JY*NA	(5.5)	5.0	5.0±1.5
56		CC45SL3DD560JY*NA	(6.0)	5.0	5.0±1.5
68		CC45SL3DD680JY*NA	(6.5)	5.0	5.0±1.5
82		CC45SL3DD820JY*NA	7.0	5.0	5.0±1.5
100		CC45SL3DD101JY*NA	7.5	5.0	5.0±1.5
120		CC45SL3DD121JY*NA	8.0	5.0	5.0±1.5
150		CC45SL3DD151JY*NA	8.5	5.0	5.0±1.5
180		CC45SL3DD181JY*NA	9.0	5.0	5.0±1.5
220		CC45SL3DD221JY*NA	10.0	5.0	5.0±1.5
270		CC45SL3DD271JY*NA	11.0	5.0	7.5±1.5
330		CC45SL3DD331JY*NA	11.5	5.0	7.5±1.5
390					
470					

CC45 series lineup


[https://product.tdk.com/en/search/capacitor/ceramic/lead-disc/list#tag%5B%5D=com\\_cc45&l=100&p=1&c=part\\_no-part\\_no&d=0](https://product.tdk.com/en/search/capacitor/ceramic/lead-disc/list#tag%5B%5D=com_cc45&l=100&p=1&c=part_no-part_no&d=0)

\* Body diameter (D) is reference value if D is smaller than maximum dimension of lead to lead distance (F).

# CC45 series : Commercial grade

## / Low dissipation at high frequency (Temperature compensated)

Rated Voltage: 3kV DC

Capacitance (pF)	Temperature characteristic		Part No.	Dimensions (mm)		
		SL		D max.	T max.	F
10			CC45SL3FD100JY*NA	(5.5)	6.0	7.5±1.5
12			CC45SL3FD120JY*NA	(5.5)	6.0	7.5±1.5
15			CC45SL3FD150JY*NA	(5.5)	6.0	7.5±1.5
18			CC45SL3FD180JY*NA	(5.5)	6.0	7.5±1.5
22			CC45SL3FD220JY*NA	(5.5)	6.0	7.5±1.5
27			CC45SL3FD270JY*NA	(5.5)	6.0	7.5±1.5
33			CC45SL3FD330JY*NA	(6.0)	6.0	7.5±1.5
39			CC45SL3FD390JY*NA	(6.0)	6.0	7.5±1.5
47			CC45SL3FD470JY*NA	(6.5)	6.0	7.5±1.5
56			CC45SL3FD560JY*NA	(7.0)	6.0	7.5±1.5
68			CC45SL3FD680JY*NA	(7.5)	6.0	7.5±1.5
82			CC45SL3FD820JY*NA	(8.0)	6.0	7.5±1.5
100			CC45SL3FD101JY*NA	(8.5)	6.0	7.5±1.5
120			CC45SL3FD121JY*NA	9.5	6.0	7.5±1.5
150			CC45SL3FD151JY*NA	10.0	6.0	7.5±1.5
180			CC45SL3FD181JY*NA	11.0	6.0	7.5±1.5
220			CC45SL3FD221JY*NA	12.0	6.0	7.5±1.5
270						
330						
390						
470						

CC45 series lineup

[https://product.tdk.com/en/search/capacitor/ceramic/lead-disc/list#tag%5B%5D=com\\_cc45&l=100&p=1&c=part\\_no-part\\_no&d=0](https://product.tdk.com/en/search/capacitor/ceramic/lead-disc/list#tag%5B%5D=com_cc45&l=100&p=1&c=part_no-part_no&d=0)

\* Body diameter (D) is reference value if D is smaller than maximum dimension of lead to lead distance (F).

# CC45 series : Commercial grade

## / Low dissipation at high frequency (Temperature compensated)

Rated Voltage: 6kV DC

Capacitance (pF)	Temperature characteristic SL	Part No.	Dimensions (mm)		
			D max.	T max.	F
5		CC45SL3JD050DY*NA	(7.5)	6.0	7.5±1.5
8		CC45SL3JD080DY*NA	(7.5)	6.0	7.5±1.5
10		CC45SL3JD100JY*NA	(7.5)	6.0	7.5±1.5
12		CC45SL3JD120JY*NA	(7.5)	6.0	7.5±1.5
15		CC45SL3JD150JY*NA	(7.5)	6.0	7.5±1.5
18		CC45SL3JD180JY*NA	(7.5)	6.0	7.5±1.5
22		CC45SL3JD220JY*NA	(7.5)	6.0	7.5±1.5
27		CC45SL3JD270JY*NA	(7.5)	6.0	7.5±1.5
33		CC45SL3JD330JY*NA	(7.5)	6.0	7.5±1.5
39		CC45SL3JD390JY*NA	(8.0)	6.0	7.5±1.5
47		CC45SL3JD470JY*NA	(8.5)	6.0	7.5±1.5

CC45 series lineup

[https://product.tdk.com/en/search/capacitor/ceramic/lead-disc/list#tag%5B%5D=com\\_cc45&l=100&p=1&c=part\\_no-part\\_no&d=0](https://product.tdk.com/en/search/capacitor/ceramic/lead-disc/list#tag%5B%5D=com_cc45&l=100&p=1&c=part_no-part_no&d=0)

\* Body diameter (D) is reference value if D is smaller than maximum dimension of lead to lead distance (F).

