

## Disc type capacitors with leads

High voltage ceramic capacitors, commercial grade, low dissipation at high frequency



# CC45 series



### 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.

### APPLICATION

Snubber circuit protection of power supplies

### PART NUMBER CONSTRUCTION

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

\* Please refer to P-3 ~ 4 about the product dimensions.

### OPERATING TEMPERATURE RANGE

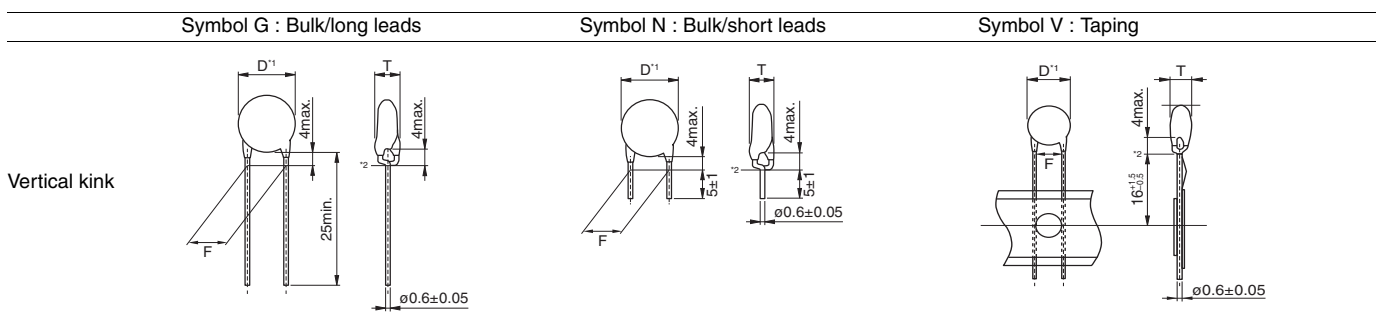
Temperature characteristic	Operating temperature (°C)	Storage temperature (°C)*
SL	-25 to +125	-25 to +125

The maximum operating temperature of +125°C includes capacitor self-generated heat of up to 20°C.

\* After capacitor is mounted on board, the storage temperature range is applied.

### STANDARD LEAD-WIRE SHAPES

Dimensions in mm



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.

○ RoHS Directive Compliant Product: See the following for more details. <https://product.tdk.com/en/environment/rohs/index.html>

○ Halogen-free: Indicate that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

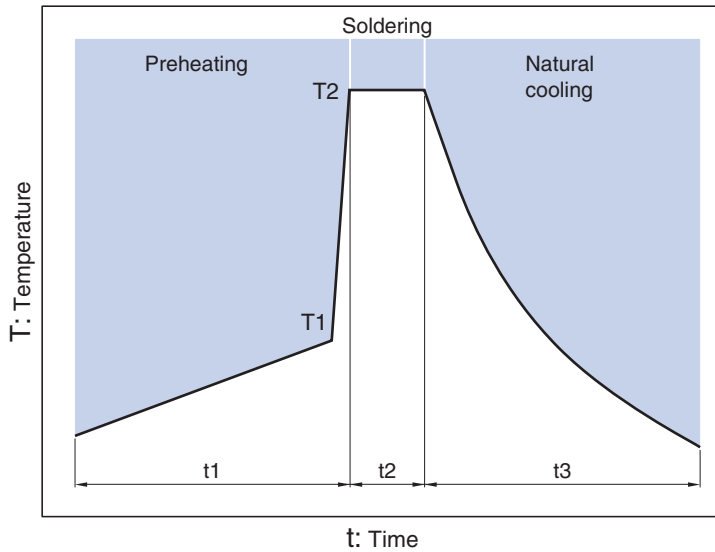
⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (1/6)  
Please note that the contents may change without any prior notice due to reasons such as upgrading.

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# Overview of CC45 series

## RECOMMENDED FLOW PROFILE



Preheating		Peak		Natural cooling
Temp.	Time	Temp.	Time	Time
T1	t1	T2	t2	t3
110°C min.	30 to 60s.	260°C	Within 10s.	Over 60s.

## MARKINGS

### D dimension: 6.0mm max.

Item	Markings	Description	Marking example
1. Nominal capacitance	47	47pF	
2. Capacitance tolerance	J	±5%	
3. Rated voltage	1KV	1kV DC	

### D dimension: 6.5mm min.

Item	Markings	Description	Marking example
1. Nominal capacitance	221	220pF	
2. Capacitance tolerance	J	±5%	
3. Rated voltage	2KV	2kV DC	
4. Manufacturer	TDK	TDK	

## CC45 type

## ■ RATED VOLTAGE Edc: 1kV

## □ CAPACITANCE AND DIMENSIONS

Temperature characteristic	Capacitance	Capacitance tolerance	Dimensions (mm)				Taping dimensions***	Part numbers		
			Dmax. *	Tmax.	F (applied to bulk)	F (applied to taping)		Bulk/long leads (Symbol: G)	Bulk/short leads (Symbol: N)	Taping (Symbol: V)
SL	10pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD100JYGNA</a>	<a href="#">CC45SL3AD100JYNNA</a>	<a href="#">CC45SL3AD100JYVNA</a>
SL	12pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD120JYGNA</a>	<a href="#">CC45SL3AD120JYNNA</a>	<a href="#">CC45SL3AD120JYVNA</a>
SL	15pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD150JYGNA</a>	<a href="#">CC45SL3AD150JYNNA</a>	<a href="#">CC45SL3AD150JYVNA</a>
SL	18pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD180JYGNA</a>	<a href="#">CC45SL3AD180JYNNA</a>	<a href="#">CC45SL3AD180JYVNA</a>
SL	22pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD220JYGNA</a>	<a href="#">CC45SL3AD220JYNNA</a>	<a href="#">CC45SL3AD220JYVNA</a>
SL	27pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD270JYGNA</a>	<a href="#">CC45SL3AD270JYNNA</a>	<a href="#">CC45SL3AD270JYVNA</a>
SL	33pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD330JYGNA</a>	<a href="#">CC45SL3AD330JYNNA</a>	<a href="#">CC45SL3AD330JYVNA</a>
SL	39pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD390JYGNA</a>	<a href="#">CC45SL3AD390JYNNA</a>	<a href="#">CC45SL3AD390JYVNA</a>
SL	47pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD470JYGNA</a>	<a href="#">CC45SL3AD470JYNNA</a>	<a href="#">CC45SL3AD470JYVNA</a>
SL	56pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD560JYGNA</a>	<a href="#">CC45SL3AD560JYNNA</a>	<a href="#">CC45SL3AD560JYVNA</a>
SL	68pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD680JYGNA</a>	<a href="#">CC45SL3AD680JYNNA</a>	<a href="#">CC45SL3AD680JYVNA</a>
SL	82pF	±5%	6.0**	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD820JYGNA</a>	<a href="#">CC45SL3AD820JYNNA</a>	<a href="#">CC45SL3AD820JYVNA</a>
SL	100pF	±5%	6.5**	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD101JYGNA</a>	<a href="#">CC45SL3AD101JYNNA</a>	<a href="#">CC45SL3AD101JYVNA</a>
SL	120pF	±5%	7.0	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD121JYGNA</a>	<a href="#">CC45SL3AD121JYNNA</a>	<a href="#">CC45SL3AD121JYVNA</a>
SL	150pF	±5%	7.5	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD151JYGNA</a>	<a href="#">CC45SL3AD151JYNNA</a>	<a href="#">CC45SL3AD151JYVNA</a>
SL	180pF	±5%	8.0	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD181JYGNA</a>	<a href="#">CC45SL3AD181JYNNA</a>	<a href="#">CC45SL3AD181JYVNA</a>
SL	220pF	±5%	8.5	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD221JYGNA</a>	<a href="#">CC45SL3AD221JYNNA</a>	<a href="#">CC45SL3AD221JYVNA</a>
SL	270pF	±5%	9.0	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD271JYGNA</a>	<a href="#">CC45SL3AD271JYNNA</a>	<a href="#">CC45SL3AD271JYVNA</a>
SL	330pF	±5%	10.0	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD331JYGNA</a>	<a href="#">CC45SL3AD331JYNNA</a>	<a href="#">CC45SL3AD331JYVNA</a>
SL	390pF	±5%	10.5	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3AD391JYGNA</a>	<a href="#">CC45SL3AD391JYNNA</a>	<a href="#">CC45SL3AD391JYVNA</a>
SL	470pF	±5%	11.5	5.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3AD471JYGNA</a>	<a href="#">CC45SL3AD471JYNNA</a>	<a href="#">CC45SL3AD471JYVNA</a>

\* The values in parentheses "(") are reference values.  
Click the part number for details.

\*\* Reference values are applied to bulk products.

\*\*\*Please refer to p-5 about the taping dimensions.

## ■ RATED VOLTAGE Edc: 2kV

## □ CAPACITANCE AND DIMENSIONS

Temperature characteristic	Capacitance	Capacitance tolerance	Dimensions (mm)				Taping dimensions***	Part numbers		
			Dmax. *	Tmax.	F (applied to bulk)	F (applied to taping)		Bulk/long leads (Symbol: G)	Bulk/short leads (Symbol: N)	Taping (Symbol: V)
SL	10pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD100JYGNA</a>	<a href="#">CC45SL3DD100JYNNA</a>	<a href="#">CC45SL3DD100JYVNA</a>
SL	12pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD120JYGNA</a>	<a href="#">CC45SL3DD120JYNNA</a>	<a href="#">CC45SL3DD120JYVNA</a>
SL	15pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD150JYGNA</a>	<a href="#">CC45SL3DD150JYNNA</a>	<a href="#">CC45SL3DD150JYVNA</a>
SL	18pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD180JYGNA</a>	<a href="#">CC45SL3DD180JYNNA</a>	<a href="#">CC45SL3DD180JYVNA</a>
SL	22pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD220JYGNA</a>	<a href="#">CC45SL3DD220JYNNA</a>	<a href="#">CC45SL3DD220JYVNA</a>
SL	27pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD270JYGNA</a>	<a href="#">CC45SL3DD270JYNNA</a>	<a href="#">CC45SL3DD270JYVNA</a>
SL	33pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD330JYGNA</a>	<a href="#">CC45SL3DD330JYNNA</a>	<a href="#">CC45SL3DD330JYVNA</a>
SL	39pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD390JYGNA</a>	<a href="#">CC45SL3DD390JYNNA</a>	<a href="#">CC45SL3DD390JYVNA</a>
SL	47pF	±5%	(5.5)	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD470JYGNA</a>	<a href="#">CC45SL3DD470JYNNA</a>	<a href="#">CC45SL3DD470JYVNA</a>
SL	56pF	±5%	6.0**	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD560JYGNA</a>	<a href="#">CC45SL3DD560JYNNA</a>	<a href="#">CC45SL3DD560JYVNA</a>
SL	68pF	±5%	6.5**	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD680JYGNA</a>	<a href="#">CC45SL3DD680JYNNA</a>	<a href="#">CC45SL3DD680JYVNA</a>
SL	82pF	±5%	7.0	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD820JYGNA</a>	<a href="#">CC45SL3DD820JYNNA</a>	<a href="#">CC45SL3DD820JYVNA</a>
SL	100pF	±5%	7.5	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD101JYGNA</a>	<a href="#">CC45SL3DD101JYNNA</a>	<a href="#">CC45SL3DD101JYVNA</a>
SL	120pF	±5%	8.0	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD121JYGNA</a>	<a href="#">CC45SL3DD121JYNNA</a>	<a href="#">CC45SL3DD121JYVNA</a>
SL	150pF	±5%	8.5	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD151JYGNA</a>	<a href="#">CC45SL3DD151JYNNA</a>	<a href="#">CC45SL3DD151JYVNA</a>
SL	180pF	±5%	9.0	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD181JYGNA</a>	<a href="#">CC45SL3DD181JYNNA</a>	<a href="#">CC45SL3DD181JYVNA</a>
SL	220pF	±5%	10.0	5.0	5.0±1.5	5.0+0.8, -0.2	V1	<a href="#">CC45SL3DD221JYGNA</a>	<a href="#">CC45SL3DD221JYNNA</a>	<a href="#">CC45SL3DD221JYVNA</a>
SL	270pF	±5%	10.5	5.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3DD271JYGNA</a>	<a href="#">CC45SL3DD271JYNNA</a>	<a href="#">CC45SL3DD271JYVNA</a>
SL	330pF	±5%	11.5	5.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3DD331JYGNA</a>	<a href="#">CC45SL3DD331JYNNA</a>	<a href="#">CC45SL3DD331JYVNA</a>

\* The values in parentheses "(") are reference values.  
Click the part number for details.

\*\* Reference values are applied to bulk products.

\*\*\*Please refer to p-5 about the taping dimensions.

• For more information about products with other capacitance or other data, please contact us.

⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (3/6)  
Please note that the contents may change without any prior notice due to reasons such as upgrading.

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# CC45 type

## ■ RATED VOLTAGE Edc: 3kV

### □ CAPACITANCE AND DIMENSIONS

Temperature characteristic	Capacitance	Capacitance tolerance	Dimensions (mm)				Taping dimensions***	Part numbers		
			Dmax. *	Tmax.	F (applied to bulk)	F (applied to taping)		Bulk/long leads (Symbol: G)	Bulk/short leads (Symbol: N)	Taping (Symbol: V)
SL	10pF	±5%	(5.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD100JYGNA</a>	<a href="#">CC45SL3FD100JYNNA</a>	<a href="#">CC45SL3FD100JYVNA</a>
SL	12pF	±5%	(5.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD120JYGNA</a>	<a href="#">CC45SL3FD120JYNNA</a>	<a href="#">CC45SL3FD120JYVNA</a>
SL	15pF	±5%	(5.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD150JYGNA</a>	<a href="#">CC45SL3FD150JYNNA</a>	<a href="#">CC45SL3FD150JYVNA</a>
SL	18pF	±5%	(5.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD180JYGNA</a>	<a href="#">CC45SL3FD180JYNNA</a>	<a href="#">CC45SL3FD180JYVNA</a>
SL	22pF	±5%	(5.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD220JYGNA</a>	<a href="#">CC45SL3FD220JYNNA</a>	<a href="#">CC45SL3FD220JYVNA</a>
SL	27pF	±5%	(5.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD270JYGNA</a>	<a href="#">CC45SL3FD270JYNNA</a>	<a href="#">CC45SL3FD270JYVNA</a>
SL	33pF	±5%	(6.0)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD330JYGNA</a>	<a href="#">CC45SL3FD330JYNNA</a>	<a href="#">CC45SL3FD330JYVNA</a>
SL	39pF	±5%	(6.0)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD390JYGNA</a>	<a href="#">CC45SL3FD390JYNNA</a>	<a href="#">CC45SL3FD390JYVNA</a>
SL	47pF	±5%	(6.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD470JYGNA</a>	<a href="#">CC45SL3FD470JYNNA</a>	<a href="#">CC45SL3FD470JYVNA</a>
SL	56pF	±5%	(7.0)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD560JYGNA</a>	<a href="#">CC45SL3FD560JYNNA</a>	<a href="#">CC45SL3FD560JYVNA</a>
SL	68pF	±5%	(7.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD680JYGNA</a>	<a href="#">CC45SL3FD680JYNNA</a>	<a href="#">CC45SL3FD680JYVNA</a>
SL	82pF	±5%	(8.0)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD820JYGNA</a>	<a href="#">CC45SL3FD820JYNNA</a>	<a href="#">CC45SL3FD820JYVNA</a>
SL	100pF	±5%	8.5**	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD101JYGNA</a>	<a href="#">CC45SL3FD101JYNNA</a>	<a href="#">CC45SL3FD101JYVNA</a>
SL	120pF	±5%	9.5	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD121JYGNA</a>	<a href="#">CC45SL3FD121JYNNA</a>	<a href="#">CC45SL3FD121JYVNA</a>
SL	150pF	±5%	10.0	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD151JYGNA</a>	<a href="#">CC45SL3FD151JYNNA</a>	<a href="#">CC45SL3FD151JYVNA</a>
SL	180pF	±5%	11.0	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD181JYGNA</a>	<a href="#">CC45SL3FD181JYNNA</a>	<a href="#">CC45SL3FD181JYVNA</a>
SL	220pF	±5%	12.0	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3FD221JYGNA</a>	<a href="#">CC45SL3FD221JYNNA</a>	<a href="#">CC45SL3FD221JYVNA</a>

\* The values in parentheses "( )" are reference values.

Click the part number for details.

\*\* Reference values are applied to bulk products.

\*\*\*Please refer to p-5 about the taping dimensions.

## ■ RATED VOLTAGE Edc: 6kV

### □ CAPACITANCE AND DIMENSIONS

Temperature characteristic	Capacitance	Capacitance tolerance	Dimensions (mm)				Taping dimensions***	Part numbers		
			Dmax. *	Tmax.	F (applied to bulk)	F (applied to taping)		Bulk/long leads (Symbol: G)	Bulk/short leads (Symbol: N)	Taping (Symbol: V)
SL	3pF	±0.25pF	(7.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3JD030CYGNA</a>	<a href="#">CC45SL3JD030CYNNA</a>	<a href="#">CC45SL3JD030CYVNA</a>
SL	5pF	±0.5pF	(7.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3JD050DYGNA</a>	<a href="#">CC45SL3JD050DYNNA</a>	<a href="#">CC45SL3JD050DYVNA</a>
SL	8pF	±0.5pF	(7.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3JD080DYGNA</a>	<a href="#">CC45SL3JD080DYNNA</a>	<a href="#">CC45SL3JD080DYVNA</a>
SL	10pF	±5%	(7.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3JD100JYGNA</a>	<a href="#">CC45SL3JD100JYNNA</a>	<a href="#">CC45SL3JD100JYVNA</a>
SL	12pF	±5%	(7.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3JD120JYGNA</a>	<a href="#">CC45SL3JD120JYNNA</a>	<a href="#">CC45SL3JD120JYVNA</a>
SL	15pF	±5%	(7.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3JD150JYGNA</a>	<a href="#">CC45SL3JD150JYNNA</a>	<a href="#">CC45SL3JD150JYVNA</a>
SL	18pF	±5%	(7.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3JD180JYGNA</a>	<a href="#">CC45SL3JD180JYNNA</a>	<a href="#">CC45SL3JD180JYVNA</a>
SL	22pF	±5%	(7.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3JD220JYGNA</a>	<a href="#">CC45SL3JD220JYNNA</a>	<a href="#">CC45SL3JD220JYVNA</a>
SL	27pF	±5%	(7.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3JD270JYGNA</a>	<a href="#">CC45SL3JD270JYNNA</a>	<a href="#">CC45SL3JD270JYVNA</a>
SL	33pF	±5%	(7.5)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3JD330JYGNA</a>	<a href="#">CC45SL3JD330JYNNA</a>	<a href="#">CC45SL3JD330JYVNA</a>
SL	39pF	±5%	(8.0)	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3JD390JYGNA</a>	<a href="#">CC45SL3JD390JYNNA</a>	<a href="#">CC45SL3JD390JYVNA</a>
SL	47pF	±5%	8.5**	6.0	7.5±1.5	7.5±0.8	V2	<a href="#">CC45SL3JD470JYGNA</a>	<a href="#">CC45SL3JD470JYNNA</a>	<a href="#">CC45SL3JD470JYVNA</a>

\* The values in parentheses "( )" are reference values.

Click the part number for details.

\*\* Reference values are applied to bulk products.

\*\*\*Please refer to p-5 about the taping dimensions.

• For more information about products with other capacitance or other data, please contact us.

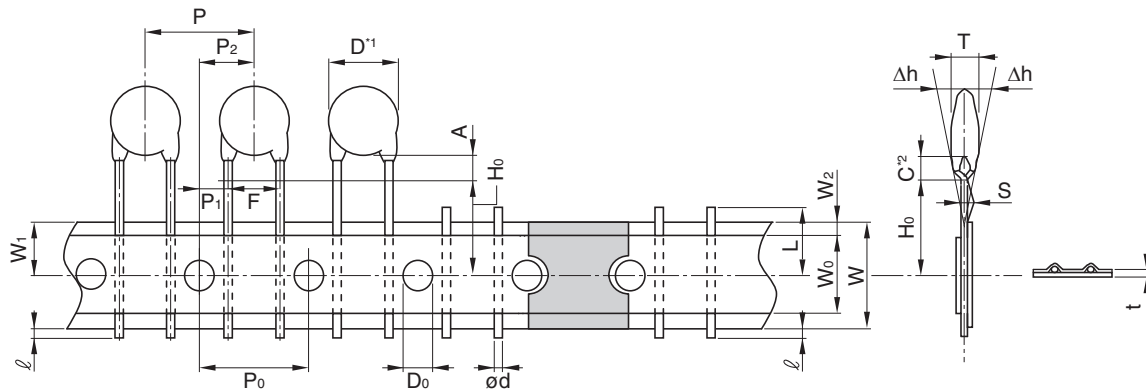
⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (4/6)  
Please note that the contents may change without any prior notice due to reasons such as upgrading.

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## CC45 type

## TAPING DIMENSIONS



Item	Symbols	Dimensions (mm)		Remarks
		V1	V2	
Body diameter	D	Refer to P-3-4		*1 Body diameter (D) is reference value if D is smaller than maximum dimension of lead to lead distance (F).
Body thickness	T	Refer to P-3-4		
Lead-wire diameter	ød	0.6±0.05	0.6±0.05	
Pitch of component	P	12.7±1.0	15.0±1.0	Including the slant of body
Feed hole pitch	P <sub>0</sub>	12.7±0.3	15.0±0.3	Excepting the tape splicing part
Feed hole center to lead-wire	P <sub>1</sub>	3.85±0.7	3.75±0.7	
Feed hole center to component center	P <sub>2</sub>	6.35±1.3	7.5±1.3	Including the slanting body due to bending lead-wire
Lead-to lead distance	F	5+0.8, -0.2	7.5±0.8	Measuring point is bottom kink
Component alignment	Δh	0 ±2.0	0 ±2.0	Including the slanting body due to bending lead-wire
Carrier tape width	W	18.0+1.0,-0.5	18.0+1.0,-0.5	
Adhesive tape width	W <sub>0</sub>	10.0 Min.	10.0 Min.	
Hole position	W <sub>1</sub>	9.0±0.5	9.0±0.5	
Adhesive tape position	W <sub>2</sub>	4.0 Max.	4.0 Max.	Adhesive tape do not stick out the tape
Bottom of kink from tape center	H <sub>0</sub>	16.0+1.5,-0.5	16.0+1.5,-0.5	
Lead-wire protrusion	ℓ	1.0 Max.	1.0 Max.	
Feed hole diameter	D <sub>0</sub>	4.0±0.2	4.0±0.2	
Carrier tape thickness (Including adhesive tape)	t	0.6±0.3	0.6±0.3	Including adhesive tape
Length of snapped lead-wire	L	11.0 Max.	11.0 Max.	
Coating on lead-wire	C	4.0 Max.	4.0 Max.	*2 Coating on leads shall not extend beyond the bottom of vertical kink.
Height of kink	A	4.0 Max.	4.0 Max.	Measuring point is bottom kink
Spring action	S	2.0 Max.	2.0 Max.	

## AMMO PACK INNER BOX SIZE



Dimensions in mm

## PACKAGE QUANTITY

Type	Package quantity	
	Bulk (pieces / bag)	Taping (pieces / box)
CC45	1000	1000

⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (5/6)  
Please note that the contents may change without any prior notice due to reasons such as upgrading.

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## REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

### SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.

#### REMINDERS

- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.  
The preheating temperature should be set so that the temperature difference between the solder temperature and product temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.  
If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.  
The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.  
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

- |   |  |
|---|--|
| (1) Aerospace/aviation equipment                                  | (8) Public information-processing equipment                                  |
| (2) Transportation equipment (cars, electric trains, ships, etc.) | (9) Military equipment   |
| (3) Medical equipment   | (10) Electric heating apparatus, burning equipment                           |
| (4) Power-generation control equipment                            | (11) Disaster prevention/crime prevention equipment                          |
| (5) Atomic energy-related equipment                               | (12) Safety equipment  |
| (6) Seabed equipment  | (13) Other applications that are not considered general-purpose applications |
| (7) Transportation control equipment                              |  |

- Please refer to the guideline of notabilia for fixed ceramic capacitors issued by JEITA(Japan Electronics and Information Technology Association, EIAJ RCR-2335).

This guideline describes general precautions\* for using fixed ceramic capacitors. Please carefully confirm it and use capacitors safely.

\* Items for check, explanation/reason/concrete example and failure examples, etc.

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.