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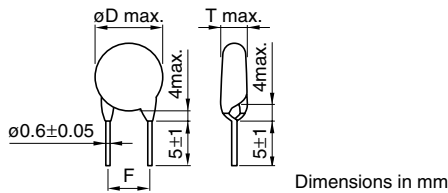
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# Mid-high Voltage Ceramic Capacitors(Disk with Lead)

## General Use CK45 Series

Conformity to RoHS Directive

### SHAPES AND DIMENSIONS



### CAPACITANCE AND DIMENSIONS

#### TEMPERATURE CHARACTERISTICS: B( $\pm 10\%$ )

RATED VOLTAGE Edc: 1kV

Part No.	Capacitance (pF)	Dimensions (mm)		
		$\phi D$ max.	T max.	F
CK45-B3AD101KYNN to CK45-B3AD681KYNN	100*, 120, 150* 180, 220*, 270 330*, 390, 470* 560, 680*	5.5	5	5 $\pm$ 1.5
CK45-B3AD821KYNN	820	6	5	5 $\pm$ 1.5
CK45-B3AD102KYNN	1,000*	6	5	5 $\pm$ 1.5
CK45-B3AD122KYNN	1,200	6.5	5	5 $\pm$ 1.5
CK45-B3AD152KYNN	1,500*	7	5	5 $\pm$ 1.5
CK45-B3AD182KYNN	1,800	7.5	5	5 $\pm$ 1.5
CK45-B3AD222KYNN	2,200*	8.5	5	5 $\pm$ 1.5
CK45-B3AD272KYNN	2,700	9	5	5 $\pm$ 1.5
CK45-B3AD332KYNN	3,300*	9.5	5	5 $\pm$ 1.5
CK45-B3AD392KYNN	3,900	10	5	5 $\pm$ 1.5
CK45-B3AD472KYNN	4,700*	11	5	5 $\pm$ 1.5
CK45-B3AD562KYNN	5,600	12	5	7.5 $\pm$ 1.5
CK45-B3AD682KYNN	6,800*	13	5	7.5 $\pm$ 1.5
CK45-B3AD822KYNN	8,200	14	5	7.5 $\pm$ 1.5
CK45-B3AD103KYNN	10,000*	15	5	7.5 $\pm$ 1.5

RATED VOLTAGE Edc: 2kV

Part No.	Capacitance (pF)	Dimensions (mm)		
		$\phi D$ max.	T max.	F
CK45-B3DD101KYNN to CK45-B3DD471KYNN	100*, 120, 150* 180, 220*, 270 330*, 470*	5.5	5	5 $\pm$ 1.5
CK45-B3DD561KYNN	560	6	5	5 $\pm$ 1.5
CK45-B3DD681KYNN	680*	6.5	5	5 $\pm$ 1.5
CK45-B3DD821KYNN	820	7	5	5 $\pm$ 1.5
CK45-B3DD102KYNN	1,000*	7.5	5	5 $\pm$ 1.5
CK45-B3DD122KYNN	1,200	8	5	5 $\pm$ 1.5
CK45-B3DD152KYNN	1,500*	8.5	5	5 $\pm$ 1.5
CK45-B3DD182KYNN	1,800	9	5	5 $\pm$ 1.5
CK45-B3DD222KYNN	2,200*	10	5	5 $\pm$ 1.5
CK45-B3DD272KYNN	2,700	10.5	5	5 $\pm$ 1.5
CK45-B3DD332KYNN	3,300*	11.5	5	7.5 $\pm$ 1.5
CK45-B3DD392KYNN	3,900	12.5	5	7.5 $\pm$ 1.5
CK45-B3DD472KYNN	4,700*	14	5	7.5 $\pm$ 1.5

\* 1kV and 2kV are E6 series standard products in Temperature characteristics B.

### CAPACITANCE TEMPERATURE CHARACTERISTICS AND TOLERANCE

Temperature characteristics	Temperature range	Capacitance tolerance
B( $\pm 10\%$ )	-25 to +85°C	K( $\pm 10\%$ )
E(+20, -55%)	-25 to +85°C	Z(+80, -20%)

RATED VOLTAGE Edc: 3kV

Part No.	Capacitance (pF)	Dimensions (mm)		
		$\phi D$ max.	T max.	F
CK45-B3FD101KYNN	100	5.5	6	7.5 $\pm$ 1.5
CK45-B3FD121KYNN	120	5.5	6	7.5 $\pm$ 1.5
CK45-B3FD151KYNN	150	5.5	6	7.5 $\pm$ 1.5
CK45-B3FD181KYNN	180	5.5	6	7.5 $\pm$ 1.5
CK45-B3FD221KYNN	220	5.5	6	7.5 $\pm$ 1.5
CK45-B3FD271KYNN	270	6	6	7.5 $\pm$ 1.5
CK45-B3FD331KYNN	330	6.5	6	7.5 $\pm$ 1.5
CK45-B3FD391KYNN	390	6.5	6	7.5 $\pm$ 1.5
CK45-B3FD471KYNN	470	7	6	7.5 $\pm$ 1.5
CK45-B3FD561KYNN	560	7.5	6	7.5 $\pm$ 1.5
CK45-B3FD681KYNN	680	8	6	7.5 $\pm$ 1.5
CK45-B3FD821KYNN	820	8.5	6	7.5 $\pm$ 1.5
CK45-B3FD102KYNN	1,000	9	6	7.5 $\pm$ 1.5
CK45-B3FD122KYNN	1,200	9.5	6	7.5 $\pm$ 1.5
CK45-B3FD152KYNN	1,500	10.5	6	7.5 $\pm$ 1.5
CK45-B3FD182KYNN	1,800	11.5	6	7.5 $\pm$ 1.5
CK45-B3FD222KYNN	2,200	12.5	6	7.5 $\pm$ 1.5
CK45-B3FD272KYNN	2,700	13.5	6	7.5 $\pm$ 1.5
CK45-B3FD332KYNN	3,300	14.5	6	7.5 $\pm$ 1.5

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

## CAPACITANCE AND DIMENSIONS

### TEMPERATURE CHARACTERISTICS: E(+20, –55%)

RATED VOLTAGE E<sub>dc</sub>: 1kV

Part No.	Capacitance (pF)	Dimensions (mm)		
		øD max.	T max.	F
CK45-E3AD471ZYNN	470*	5.5	5	5±1.5
CK45-E3AD681ZYNN	680	5.5	5	5±1.5
CK45-E3AD102ZYNN	1,000*	5.5	5	5±1.5
CK45-E3AD152ZYNN	1,500	5.5	5	5±1.5
CK45-E3AD222ZYNN	2,200*	6.5	5	5±1.5
CK45-E3AD332ZYNN	3,300	7.5	5	5±1.5
CK45-E3AD472ZYNN	4,700*	8.5	5	5±1.5
CK45-E3AD682ZYNN	6,800	10	5	5±1.5
CK45-E3AD103ZYNN	10,000*	11.5	5	7.5±1.5

RATED VOLTAGE E<sub>dc</sub>: 2kV

Part No.	Capacitance (pF)	Dimensions (mm)		
		øD max.	T max.	F
CK45-E3DD471ZYNN	470*	5.5	5	5±1.5
CK45-E3DD681ZYNN	680	5.5	5	5±1.5
CK45-E3DD102ZYNN	1,000*	6	5	5±1.5
CK45-E3DD152ZYNN	1,500	7	5	5±1.5
CK45-E3DD222ZYNN	2,200*	8	5	5±1.5
CK45-E3DD332ZYNN	3,300	9	5	5±1.5
CK45-E3DD472ZYNN	4,700*	10.5	5	5±1.5
CK45-E3DD682ZYNN	6,800	12.5	5	7.5±1.5
CK45-E3DD103ZYNN	10,000*	14.5	5	7.5±1.5

\* 1kV and 2kV are E3 series standard products in Temperature characteristics E.

RATED VOLTAGE E<sub>dc</sub>: 3kV

Part No.	Capacitance (pF)	Dimensions (mm)		
		øD max.	T max.	F
CK45-E3FD471ZYNN	470	6	6	7.5±1.5
CK45-E3FD681ZYNN	680	6.5	6	7.5±1.5
CK45-E3FD102ZYNN	1,000	7.5	6	7.5±1.5
CK45-E3FD152ZYNN	1,500	8.5	6	7.5±1.5
CK45-E3FD222ZYNN	2,200	9.5	6	7.5±1.5
CK45-E3FD332ZYNN	3,300	11.5	6	7.5±1.5
CK45-E3FD472ZYNN	4,700	12.5	6	7.5±1.5
CK45-E3FD682ZYNN	6,800	15	6	7.5±1.5
CK45-E3FD103ZYNN	10,000	17.5	6	10±2

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

• All specifications are subject to change without notice.