

Mid-high Voltage Ceramic Capacitors(Disk with Lead) Safety Standard Approved CD Series

Conformity to RoHS Directive

REINFORCED INSULATION TYPE Temperature range: -25 to $+105^{\circ}\text{C}$
CLASS 2 HIGH DIELECTRIC
FEATURES

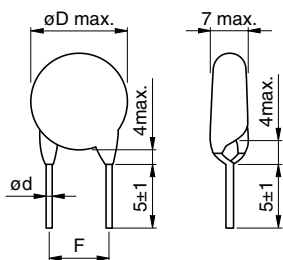
- Smaller than conventional capacitors.
- Flame-resistant reinforced outer insulation prevents fires, electrical shock, and other potential hazards.
- Compliant with the safety standards of 11 countries (conforms to European standards in accordance with IEC Pub. 384-14 Version 2).
- This ceramic capacitor meets European Class II (reinforced insulation) Safety Standards VDE, SEV, SEMKO, BS. Since it is rated at a withstand voltage of AC.4000V, it can be used in single-unit configurations within European Class II devices.

MARKINGS

Item		Marking examples					
1. Series	CD	Front	Back				
2. Nominal capacitance	222(2200pF)						
3. Capacitance tolerance	M($\pm 20\%$)						
4. Rated voltage Eac	250V \sim (AC.250V)						
5. Withstand voltage Eac	T4KV \sim (AC.4kV)						
6. Sub-class of safety performance	X1Y1						
7. TDK's logogram	\square or \square						
8. Date code	68 (2006.8)*						
9. Regulatory body safety standards compliance markings							
BSI (U.K.)	BS415		SEV (Switzerland)	TJ508	FIMKO (Finland)	FI	NEMKO (Norway)
SEMKO (Sweden)	S	UL (U.S.A.)	UL	DEMKO (Denmark)	D	IMQ (Italy)	M
VDE (Germany)	D'E	CSA (Canada)	CSA				

(Marking position of the monogram is reference.)

* Year and month of production: last digit of year + month denoted by 1, 2, 3, 4, 5, 6, 7, 8, 9, O (October), N (November), or D (December).

SHAPES AND DIMENSIONS


Dimensions in mm

• 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.

REINFORCED INSULATION TYPE Temperature range: -25 to +105°C
CLASS 2 HIGH DIELECTRIC

INTERNATIONALLY CERTIFIED STATUS
IEC60384-14 2nd. ed. EN132400 Approved

Safety standard	Standard No. of IEC	Standard No.	Temperature characteristics	Insulation sub-class	Rated voltage Eac(V)	Approval report No.		
						Japan	Taiwan	Xiamen
BSI	IEC 60065 IEC 60384-14 2nd. ed.	BS EN 60065:1998 (BS415:1998) BS EN132400:1995 (EN132400:1994)	B, E	X1, Y1	250	226495	226495	226495
VDE	IEC 60384-14 2nd. ed.	EN132400	B, E	X1 Y1	400 250	138526	138550	124321
SEV	IEC 60384-14 2nd. ed.	EN132400	B, E	X1 Y1	400 250	01.1508	01.1508	99.7 70564
SEMKO	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	0139185/01-02	0139185/01-02	9945094
NEMKO	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	P01101987	P01101987	P99102682
DEMKO	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	310959-01	310959-01	99-04087
FIMKO	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	FI 17415	FI 17415	14237
IMQ	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	V3691	V3691	V3691
SAA	IEC 60065	AS3250	B, E	—	400	6268	6268	6268
UL	—	UL 1414	B, E	(X, Y)	250	E37861	E37861	E37861
CSA	—	CSA C22.2 No.0 & No.1	B, E	(X, Y)	250	LR35801	LR65972	201723

• Certificate numbers shall be changed owing to the revisions of the related standards.

CAPACITANCE AND DIMENSIONS

Part No	Capacitance temperature characteristics	Capacitance (pF)	Capacitance tolerance	Dimensions (mm)			
				øD max.	F	ød	
CD70-B2GA101KYNS	B(±10%)	100	K(±10%)	7	10+2, -1	0.6±0.05	
CD70-B2GA151KYNS		150	K(±10%)	7	10+2, -1	0.6±0.05	
CD85-B2GA221KYNS		220	K(±10%)	8.5	10+2, -1	0.6±0.05	
CD90-B2GA331KYNS		330	K(±10%)	9	10+2, -1	0.6±0.05	
CD90-B2GA391KYNS		390	K(±10%)	9	10+2, -1	0.6±0.05	
CD95-B2GA471KYNS		470	K(±10%)	9.5	10+2, -1	0.6±0.05	
CD75-E2GA681MYNS		E(+20, -55%)	680	M(±20%)	7.5	10+2, -1	0.6±0.05
CD85-E2GA102MYNS			1,000	M(±20%)	8.5	10+2, -1	0.6±0.05
CD10-E2GA152MYNS			1,500	M(±20%)	10	10+2, -1	0.6±0.05
CD12-E2GA222MYNS			2,200	M(±20%)	11.5	10+2, -1	0.6±0.05
CD14-E2GA332MYNS	3,300		M(±20%)	13.5	10+2, -1	0.6±0.05	
CD15-E2GA392MYNS	3,900		M(±20%)	14.5	10+2, -1	0.6±0.05	
CD16-E2GA472MYNS	4,700		M(±20%)	15.5	10+2, -1	0.6±0.05	

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

• All specifications are subject to change without notice.