

Disc Type Capacitors with Lead

High Voltage Ceramic Capacitors Commercial Grade

Safety Standard Approved CD series

Issue date: February 2013

[•] All specifications are subject to change without notice.

[•] 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.

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REINFORCED INSULATION TYPE CLASS 2 HIGH DIELECTRIC

FEATURES

- Compliant with IEC and the safety standards of various countries
- This ceramic capacitor meets reinforced insulation's Safety Standards.
 - Since it is rated at a withstand voltage of AC.4000V, it can be used in single-unit configurations within European Class II devices.
- Flame-resistant reinforced outer insulation prevents fires, electrical shock, and other potential hazards.
- · Compatible with halogen-free external resin coating.

OPERATING TEMPERATURE RANGE: -25 to +125°C

TEMPERATURE CHARACTERISTICS AND TOLERANCE

Temperature characteristics	Test temperature	Capacitance
remperature characteristics	range	tolerance
SL (+350 to -1000ppm/°C)	+20 to +85°C	J (±5%)
B (±10%)	−25 to +85°C	K (±10%)
Z5U (+22, -56%)	+10 to +85°C	M (±20%)

PRODUCT IDENTIFICATION

CD	90	ZU	2GA	222	Μ	Υ	Ν	Κ	Α
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

- (1) Type
- (2) Shape
- (3) Temperature characteristics
- (4) Rated voltage
- (5) Nominal capacitance
- (6) Capacitance tolerance
- (7) Class
- (8) Lead type
- (9) Safety standard
- (10) Halogen-free compatible product

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CAPACITANCE AND DIMENSIONS

Part No.	Temperature characteristics	Capacitance	Capacitance	Dimensi	Dimensions (mm)			
Fait No.		(pF)	tolerance	D max.	T max.	F	d	
CD45SL2GA100JY□*KA		10	J (±5%)	7.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD45SL2GA150JY□KA	-	15	J (±5%)	7.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD45SL2GA220JY□KA	- - SL (+350 to -1000ppm/°C)	22	J (±5%)	7.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD45SL2GA330JY□KA	- SL (+330 to -1000ppin/ C)	33	J (±5%)	7.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD45SL2GA470JY□KA	_	47	J (±5%)	8.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD45SL2GA680JY□KA		68	J (±5%)	9.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD70-B2GA101KY□KA		100	K (±10%)	7.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD70-B2GA151KY□KA	_	150	K (±10%)	7.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD70-B2GA221KY□KA	B (±10%)	220	K (±10%)	7.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD75-B2GA331KY□KA		330	K (±10%)	7.5	7.0	10.0+2.0, -1.0	0.6±0.05	
CD85-B2GA471KY□KA		470	K (±10%)	9.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD65ZU2GA681MY□KA		680	M (±20%)	7.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD70ZU2GA102MY□KA	_	1,000	M (±20%)	7.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD80ZU2GA152MY□KA	Z5U (+22, –56%)	1,500	M (±20%)	8.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD90ZU2GA222MY□KA		2,200	M (±20%)	9.5	7.0	10.0+2.0, -1.0	0.6±0.05	
CD11ZU2GA332MY□KA		3,300	M (±20%)	12.0	7.0	10.0+2.0, -1.0	0.6±0.05	
CD12ZU2GA472MY□KA		4,700	M (±20%)	13.5	7.0	10.0+2.0, -1.0	0.6±0.05	

 $^{^*}$ \square : Lead shape symbol

LIST OF STANDARD LEAD SHAPES

The lead type is indicated by the letter which is the 15th character of the product name.

Example) TDK Product Name: CD90ZU2GA222MYNKA

└N: Lead type (Vertical kink, Short)

Vertical kink

Dimensions in mm

Short lead

Symbol N

D

D

Vertical kink

- We recommend using a vertical kink type.
- For bulk products, we recommend a short lead type with the symbol N.

MARKINGS

Item	Markings	Specifications	Marking examples
1. Series	CD	CD series	
2. Nominal capacitance	222	2200pF	CD222M
3. Capacitance tolerance	M	±20%	440~X1 400~Y1
4. Rated voltage Eac	440∼X1	X1: AC.440V	29
•	400∼Y1	Y1: AC.400V	
5. TDK's logogram	\triangle	Production base code	H
6. Date code	<u>₩</u>	2012.9*	
			(Marking position 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).

^{*} The expression has become simplified due to a revision in the standards.

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



CERTIFIED STATUS OF VARIOUS COUNTRIES

Safety	Standard No.	Temperature	Insulation	Datad valtage	Approval report No.		
standard	standard Standard No.	characteristics	eristics sub-class Rated voltage		Taiwan	Xiamen	
BSI	BS EN60384-14				KM37103	KM37103	
VDE	EN 60384-14		X1, Y1	X1: AC.440V Y1: AC.400V	40017931	40017931	
SEV	EN 60384-14				12.0223	12.0223	
SEMKO	EN 60384-14				1125241	1125241	
NEMKO	EN 60384-14				P12215264	P12215264	
DEMKO	EN 60384-14	SL, B, Z5U			D-01094	D-01094	
FIMKO	EN 60384-14	— 3L, B, 230			FI 27387	FI 27387	
IMQ	EN 60384-14				V3691	V3691	
SAA	AS3250				CS6268	CS6268	
UL	UL 60384-14				E37861	E37861	
CSA	CAN/CSA-E60384-14				1785504	1785504	
CQC	GB/T14472-1998				CQC12001082617	CQC10001052863	

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

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Click to view similar products for Ceramic Disc Capacitors category:

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Other Similar products are found below:

 009377XM
 5AS560JCFCA
 5AU100JCECA
 5AU470JCJCA
 DEF2CLH020CA3B
 HSE102MAQBF0KR
 432202101621
 432202282431

 DEF2CLH030CJ3B
 W1X223MCVCF0KR
 564RC0GBA302EJ470K
 5AS270JCDCA
 5AS330JCDCA
 5AU330JCGCA

 DE1E3KX222MJ4BN01F
 440LT68AP-R
 JN222MQ47FAAAAKPLP
 H8000090-245
 H8000090-225RY
 H8000090-309RY
 H8000090

 291RY
 F471K39S3NR63K7R
 DEF2CLH040CN3A
 DEF2CLH080DA3B
 564R3DF0T22
 CC2150KY5P1KVB5LS-LF

 CC2180KY5P1KVB5LS-LF
 CC2470KY5P1KVB5LS-LF
 CC2820KY5P1KVB5LS-LF
 0838-040-X7R0-220K
 JN102MQ35FAAAAKPLP

 0841-040-X5U0-103M
 CCH-6K8-5/1000V
 140-50N2-101J-TB-RC
 ECK-DGL102ME
 562R5GAD47RR
 S103K75Y5PN8BT0R

 615R100GAD10
 615R150GAD10
 NCD100K1KVSLF
 NCD682M1KVZ5UF
 CCK-100N
 CCK-100P
 CCK-2N2
 CCK-47N
 CCK-47P

 47P
 CCK-4P7
 CK45-B3FD681KYNNA
 CCK-4N7
 CCK-4P7
 CK45-B3FD681KYNNA