

Ceramic Capacitors

Safety Standard Compliance

Radial

CS Series

BASIC INSULATION TYPE Temperature range: **-25 to +85°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).

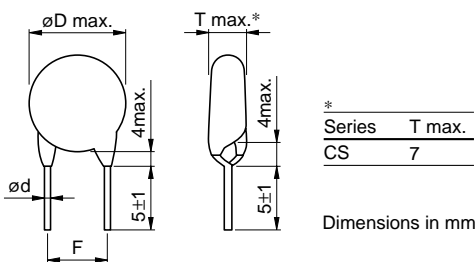
MARKINGS

Item		Marking examples					
1. Series	CS	Front	Back				
2. Nominal capacitance	222(2200pF)						
3. Capacitance tolerance	M(±20%)						
4. Rated voltage Eac	250V ~ (AC.250V)						
5. Withstand voltage Eac	T4KV ~ (AC.4kV)						
6. Sub-class of safety performance	X1Y1						
7. TDK's logogram	or						
8. Date code	64 (1996.4)*						
9. Regulatory body safety standards compliance markings							
BSI (U.K.)	BS415		SEV (Switzerland)	EW1	FIMKO (Finland)		NEMKO (Norway)
SEMKO (Sweden)		UL (U.S.A.)		SAA (Australia)	—	IMQ (Italy)	
VDE (Germany)		CSA (Canada)		DEMKO (Denmark)			

(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



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

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INTERNATIONALLY CERTIFIED STATUS

IEC384-14 (The 2nd Edition, 1993)

Safety standard	IEC	Standard No.	Temperature characteristics	Insulation sub-class	Rated voltage Eac(V)	Certificate No.
BSI (U.K.)	IEC 65+ IEC 384-14 2nd edition	BS EN 60065 (BS415:1994)	B, E, F	X1, Y2	250	226494
VDE (Germany)	IEC 384-14 2nd edition	EN132400	B, E, F	X1, Y2	250	TC B:87404, 83696 TC E:83697, 83698 TC F:83699, 87400
SEV (Switzerland)	IEC 384-14 2nd edition	EN132400	B, E, F	X1, Y2	250	95.1 10223.02
SEMKO (Sweden)	IEC 384-14 2nd edition	EN132400	B, E, F	X1, Y2	250	9434061
NEMKO (Norway)	IEC 384-14 2nd edition	EN132400	B, E, F	X1, Y2	250	P95101216
DEMKO (Denmark)	IEC 384-14 2nd edition	EN132400	B, E, F	X1, Y2	250	303637
FIMKO (Finland)	IEC 384-14 2nd edition	EN132400	B, E, F	X1, Y2	250	181538-01, -02
IMQ (Italy)	IEC 384-14 2nd edition	EN132400	B, E, F	X1, Y2	250	V3692
UL* (U.S.A.)	—	UL 1414	B, E, F	X, Y	125	E37861
CSA* (Canada)	—	C22.2 No.0 No.1	B, E, F	X, Y	125	LR35801, LR65972
SAA* (Australia)	IEC 65	AS3250	B, E, F	—	400	6268

*UL, CSA and SAA do not correspond to IEC384-14 (2nd edition, 1993).

CAPACITANCE AND DIMENSIONS

Part No.	Capacitance temperature characteristics	Capacitance (pF)	Capacitance tolerance	Dimensions (mm)		
				øD max.	F	ød
CS70-B2GA101KYNS	B(±10%)	100	K(±10%)	7	7.5±1.5	0.6±0.05
CS70-B2GA151KYNS		150	K(±10%)	7	7.5±1.5	0.6±0.05
CS70-B2GA221KYNS		220	K(±10%)	7	7.5±1.5	0.6±0.05
CS85-B2GA331KYNS		330	K(±10%)	8.5	7.5±1.5	0.6±0.05
CS85-B2GA471KYNS		470	K(±10%)	8.5	7.5±1.5	0.6±0.05
CS95-B2GA681KYNS		680	K(±10%)	9.5	7.5±1.5	0.6±0.05
CS10-B2GA102KYNS		1000	K(±10%)	10	7.5±1.5	0.6±0.05
CS80-E2GA102MYNS		1000	M(±20%)	8	7.5±1.5	0.6±0.05
CS90-E2GA152MYNS		1500	M(±20%)	9	7.5±1.5	0.6±0.05
CS11-E2GA222MYNS		2200	M(±20%)	10.5	7.5±1.5	0.6±0.05
CS13-E2GA332MYNS	E(+20, 55%)	3300	M(±20%)	12.5	7.5±1.5	0.6±0.05
CS14-E2GA392MYNS		3900	M(±20%)	13.5	7.5±1.5	0.6±0.05
CS15-E2GA472MYNS		4700	M(±20%)	14.5	7.5±1.5	0.6±0.05
CS12-F2GA472MYNS		F(+30, -80%)	4700	M(±20%)	12	7.5±1.5
CS17-F2GA103MYNS	10000		M(±20%)	16.5	10±2	0.6±0.05

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