

Ceramic Capacitors

Safety Standard Compliance Radial

CD Series

REINFORCED 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).
- 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.

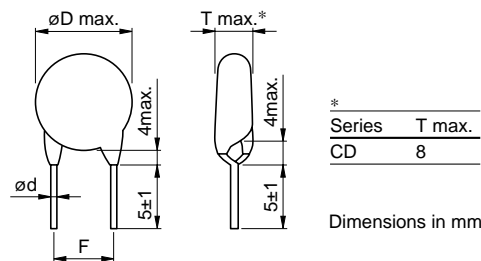
MARKINGS

| Item | | Marking examples | | | | | |
|---|------------------|------------------|-------------------|-----------------|-----------------|-------------|----------------|
| 1. Series | CD | Front | Back | | | | |
| 2. Nominal capacitance | 222(2200pF) | | | | | | |
| 3. Capacitance tolerance | M(±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 | | | | | | | |
| 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.

Ceramic Capacitors

Safety Standard Compliance

Radial

CD Series

REINFORCED INSULATION TYPE Temperature range: **-25 to +85°C**
CLASS 2 HIGH DIELECTRIC

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 | X1, Y1 | 250 | 226495 |
| VDE (Germany) | IEC 384-14 2nd edition | EN132400 | B, E | X1 Y1 | 400 250 | TC B:83692, 83693 TC E:83694, 83695 |
| SEV (Switzerland) | IEC 384-14 2nd edition | EN132400 | B, E | X1 Y1 | 400 250 | 95.1 10223.05 |
| SEMKO (Sweden) | IEC 384-14 2nd edition | EN132400 | B, E | X1, Y1 | 250 | 9434061 |
| NEMKO (Norway) | IEC 384-14 2nd edition | EN132400 | B, E | X1, Y1 | 250 | P95101216 |
| DEMKO (Denmark) | IEC 384-14 2nd edition | EN132400 | B, E | X1, Y1 | 250 | 303637 |
| FIMKO (Finland) | IEC 384-14 2nd edition | EN132400 | B, E | X1, Y1 | 250 | 181538-03, -04 |
| IMQ (Italy) | IEC 384-14 2nd edition | EN132400 | B, E | X1, Y1 | 250 | V3691 |
| UL* (U.S.A.) | — | UL 1414 | B, E | X, Y | 250 | E37861 |
| CSA* (Canada) | — | C22.2 No.0 No.1 | B, E | X, Y | 250 | LR35801, LR65972 |
| SAA* (Australia) | IEC 65 | AS3250 | B, E | — | 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 |
| 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 | | 1000 | M(±20%) | 8.5 | 10+2, -1 | 0.6±0.05 |
| CD10-E2GA152MYNS | | 1500 | M(±20%) | 10 | 10+2, -1 | 0.6±0.05 |
| CD12-E2GA222MYNS | | 2200 | M(±20%) | 11.5 | 10+2, -1 | 0.6±0.05 |
| CD14-E2GA332MYNS | | 3300 | M(±20%) | 13.5 | 10+2, -1 | 0.6±0.05 |
| CD15-E2GA392MYNS | | 3900 | M(±20%) | 14.5 | 10+2, -1 | 0.6±0.05 |
| CD16-E2GA472MYNS | | 4700 | 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.