

# Ceramic Capacitors

## For High Voltage(Temp. Characteristic COG) SMD

### C Series C4520 Type

**FEATURES**

- Advanced design prevents discharges on the ceramic surface and provides improved withstand voltage characteristics.
- TDK's proprietary internal electrode structure and the use of high-dielectric-strength material result in highly reliable performance in high-voltage applications.
- Complies with ISO8802-3 for LAN applications.
- Designed exclusively for reflow soldering.

**APPLICATIONS**

Inverter circuits with a liquid crystal backlight, LAN products, and general high voltage circuits.



**CAPACITANCE RANGE AND RATED VOLTAGE**

Type	Capacitance range	Rated voltage Edc (V)
C4520(EIA:CC1808)	10pF to 100pF	3k

**PRODUCT IDENTIFICATION**

C 4520 COG 3F 101 K □  
 (1) (2) (3) (4) (5) (6) (7)

(1) Series name

(2) Dimensions L×W

4520	4.5×2.0mm
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(3) Capacitance temperature characteristics

Class 1

Temperature characteristics	Temperature coefficient	Temperature range
COG	0±30ppm/°C	-25 to +85°C

(4) Rated voltage Edc

3F	3kV
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(5) Nominal capacitance

The capacitance is expressed in three digit codes and in units of pico farads(pF).The first and second digits identify the first and second significant figures of the capacitance. The third digit identifies the multiplier.

101	100pF
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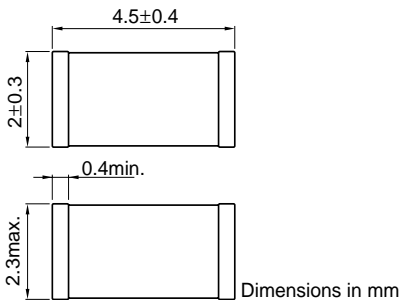
(6) Capacitance tolerance

F	±1pF[10pF max.]
K	±10%[10pF min.]

(7) Packaging style

T	Taping (reel)
B	Bulk

**SHAPES AND DIMENSIONS**



**CAPACITANCE RANGES:**

**CLASS1(TEMPERATURE COMPENSATION)**

**TEMPERATURE CHARACTERISTICS:**

**COG(0±30ppm/°C)**

RATED VOLTAGE Edc: 3kV

Capacitance (pF)	Tolerance	Thickness (mm)max.	Part No
10	±1pF	0.85±0.2	C4520C0G3F100F
12	±10%	0.85±0.2	C4520C0G3F120K
15	±10%	1.1±0.2	C4520C0G3F150K
18	±10%	1.1±0.2	C4520C0G3F180K
22	±10%	1.1±0.2	C4520C0G3F220K
27	±10%	1.6±0.2	C4520C0G3F270K
33	±10%	1.6±0.2	C4520C0G3F330K
39	±10%	1.6±0.2	C4520C0G3F390K
47	±10%	1.6±0.2	C4520C0G3F470K
56	±10%	2±0.2	C4520C0G3F560K
68	±10%	2±0.2	C4520C0G3F680K
82	±10%	2±0.2	C4520C0G3F820K
100	±10%	2±0.2	C4520C0G3F101K

**PRECAUTIONS**

- This product intended solely for reflow soldering.
- A slit of about 1mm on the circuit board is recommended to improve washability of the flux after soldering.
- Ensure that this product is completely dried following washing.
- Because this product will be subjected to high voltages, use only low-activity rosin flux (with 0.2% max. of chlorine).
- Using this product with aluminum circuit boards must be considered a special implementation. Due consideration must be given in such implementations because of the high heat stress levels involved.

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