

High Voltage Multilayer Ceramic Chip Capacitors

C Series C4520 and C4532 Types

Temperature Characteristic JIS CH, EIA C0G

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.



PRODUCT IDENTIFICATION

C 4520 C0G 3F 101 K □
(1) (2) (3) (4) (5) (6) (7)

(1) Series name

(2) Dimensions L×W

4520	4.5×2.0mm
4532	4.5×3.2mm

(3) Capacitance temperature characteristics

Class 1

Temperature characteristics	Temperature coefficient	Temperature range
CH	0±60ppm/°C	-25 to +85°C
C0G	0±30ppm/°C	-55 to +125°C

(4) Rated voltage E_{dc}

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]
K	±10%[over 10pF]

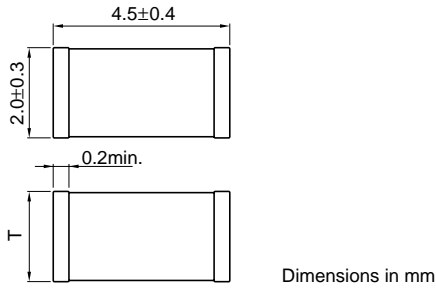
(7) Packaging style

T	Taping (reel)
B	Bulk

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.

C4520(EIA CC1808) TYPE SHAPES AND DIMENSIONS



CAPACITANCE RANGES: CLASS 1

TEMPERATURE CHARACTERISTICS:

JIS CH(0±60ppm/°C), EIA C0G(0±30ppm/°C)

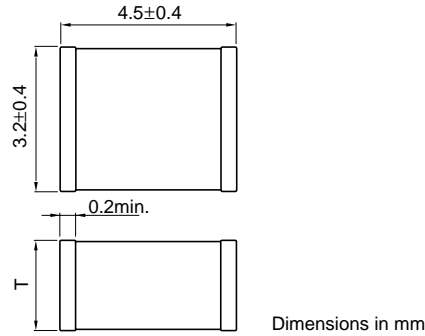
RATED VOLTAGE E_{dc}: 3kV

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
10	±1pF	0.85±0.2	C4520CH3F100F
12	±10%	0.85±0.2	C4520CH3F120K
15	±10%	1.1±0.2	C4520CH3F150K
18	±10%	1.1±0.2	C4520CH3F180K
22	±10%	1.1±0.2	C4520CH3F220K
27	±10%	1.6±0.2	C4520CH3F270K
33	±10%	1.6±0.2	C4520CH3F330K
39	±10%	1.6±0.2	C4520CH3F390K
47	±10%	1.6±0.2	C4520CH3F470K
56	±10%	2.0±0.2	C4520CH3F560K
68	±10%	2.0±0.2	C4520CH3F680K
82	±10%	2.0±0.2	C4520CH3F820K
100	±10%	2.0±0.2	C4520CH3F101K

- Part number for temperature characteristic C0G
Please substitute "C0G" for "CH" in the part number when ordering.

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

C4532(EIA CC1812) TYPE SHAPES AND DIMENSIONS



CAPACITANCE RANGES: CLASS 1

TEMPERATURE CHARACTERISTICS:

JIS CH(0±60ppm/°C), EIA C0G(0±30ppm/°C)

RATED VOLTAGE E_{dc}: 3kV

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
100	±10%	1.6±0.2	C4532CH3F101K
120	±10%	1.6±0.2	C4532CH3F121K
150	±10%	1.6±0.2	C4532CH3F151K
180	±10%	1.6±0.2	C4532CH3F181K
220	±10%	2.0±0.2	C4532CH3F221K
270	±10%	2.3±0.2	C4532CH3F271K
330	±10%	2.5±0.3	C4532CH3F331K

- Part number for temperature characteristic C0G
Please substitute "C0G" for "CH" in the part number when ordering.