

Ceramic Capacitors

For High Voltage(Temp. Characteristic X7R)
SMD

C Series C4520, C4532 Type

FEATURES

- No polarity.
- Suits 100BASE-T LAN cards, LAN board, and HUB.
- Complies with ISO8802-3 for LAN applications.
- Designed exclusively for reflow soldering.



APPLICATIONS

Input signal filtering circuit of modem and LAN interface, and general high voltage circuits.

PRODUCT IDENTIFICATION

C 4520 X7R 3A 471 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 2

Temperature characteristics	Temperature coefficient	Temperature range
X7R	±15%	-55 to +125°C

(4) Rated voltage Edc

3A	1kV
3D	2kV

(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.

471	470pF
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(6) Capacitance tolerance

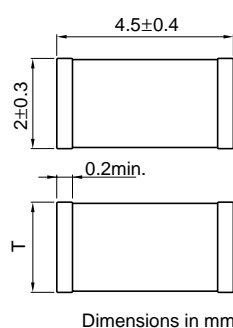
K	±10%
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(7) Packaging style

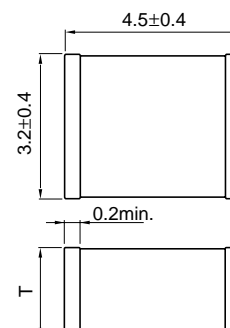
T	Taping (reel)
B	Bulk

SHAPES AND DIMENSIONS

C4520 Type



C4532 Type



CAPACITANCE RANGES:

CLASS 2

TEMPERATURE CHARACTERISTICS: X7R

RATED VOLTAGE Edc: 1kV

Capacitance (pF)	Tolerance	Thickness (mm)	Part No
470	±10%	1.3±0.2	C4520X7R3A471K
1000	±10%	1.3±0.2	C4520X7R3A102K
4700	±10%	1.6±0.2	C4532X7R3A472K
10000	±10%	2±0.2	C4532X7R3A103K

RATED VOLTAGE Edc: 2kV

Capacitance (pF)	Tolerance	Thickness (mm)	Part No
470	±10%	1.3±0.2	C4520X7R3D471K
1000	±10%	1.3±0.2	C4520X7R3D102K
2200	±10%	1.3±0.2	C4532X7R3D222K

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 because the high heat stress levels are involved. In case of using aluminum circuit boards, please contact TDK.

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