Ceramic Capacitors

C Series C4520, C4532 Type

For High Voltage(Temp. Characteristic X7R) SMD

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.

CAPACITANCE RANGE AND RATED VOLTAGE

Туре	Capacitance range	Rated voltage Edc (V)
C4520(EIA:CC1808)	470pF to 1000pF	1k to 2k
C4532(EIA:CC1812)	2200pF to 10000pF	1k to 2k

PRODUCT IDENTIFICATION

 $\frac{C}{(1)} \frac{4520}{(2)} \frac{X7R}{(3)} \frac{3A}{(4)} \frac{471}{(5)} \frac{K}{(6)} \frac{\Box}{(7)}$

(1) Series name

(2) Dimensions L×W

4520	4.5×2.0mm	
4532	4.5×3.2mm	

(3) Capacitance temperature characteristics

Class 1

Temperature Temperature characteristics coetticient		Temperature range	
X7R	±15%	−55 to +125°C	

3A	1kV	
3D	2kV	

(5) Nominal capacitance

(4) Rated voltage Edc

The first and second digits identity the first and second significant figures of the capacitance.

The third digit identifies the multiplier.

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<i>1</i> 71		470nE	

(6) Capacitance tolerance

V	±10%[10pF min.]	
n.	±10%HUDF HIII.I	

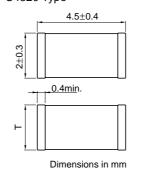
(7) Packaging style

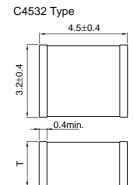
` '	0 0 ,	
Т	Taping (reel)	
В	Bulk	_



SHAPES AND DIMENSIONS

C4520 Type





CAPACITANCE RANGES: CLASS1(TEMPERATURE COMPENSATION)

TEMPERATURE CHARACTERISTICS: X7R

RATED VOLTAGE Edc: 1kV

Capacitance (pF)	Tolerance	Thickness (mm)max.	Part No
470	±10%	1.3±0.2	C4520X7R3A471K
1000	±10%	1.3±0.2	C4520X7R3A102K
4700	±10%	1.6±0.3	C4532X7R3A472K
10000	±10%	2±0.2	C4532X7R3A103K

RATED VOLTAGE Edc: 2kV

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Capacitance	Tolerance	Thickness	Part No
(pF)	Tolerance	(mm)max.	1 811 110
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.

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