

Ceramic Capacitors

For General Use
Array

CKCA43 Series

FEATURES

- The CKC Series are integrated, single-chip, 4-element capacitors that are highly effective in EMC countermeasure applications.
- They are particularly effective when used as a bypass for digital signal line noise, thereby preventing EMC around connectors.

APPLICATIONS

For use as a bypass for digital and analog signal line noise generated by telecommunications equipment and other common electronic circuits.

PRODUCT IDENTIFICATION

CKCA43 Y5V 1C 104 Z
(1) (2) (3) (4) (5) (6)

(1) Series name

(2) Capacitance temperature characteristics
Class 1 (Temperature compensation)

Temperature characteristics	Capacitance change	Temperature range
COG	0±30ppm/°C	-55 ~ +125°C

Class 2 (Temperature stable and general purpose)

Temperature characteristics	Capacitance change	Temperature range
X7R	±15%	-55 ~ +125°C
Y5V	+22, -82%	-30 ~ +85°C

(3) Rated voltage Edc

1C	16V
1E	25V
1H	50V

SPECIFICATIONS

Insulation resistance	10000MΩ or 500MΩ • μF (Rated voltage DC.16V product: 10000MΩ or 100MΩ • μF)
Operating temperature range	-25~+85°C

(4) 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.

R designates a decimal point.

104	100000pF
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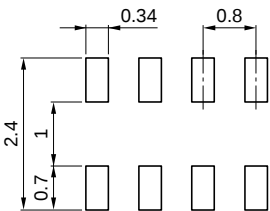
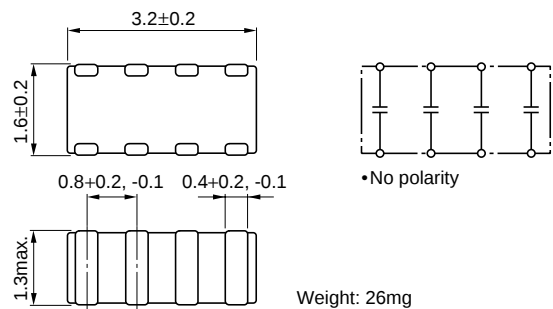
(5) Capacitance tolerance

F	±1pF
K	±10%
M	±20%
Z	+80, -20%

(6) Packaging style

T	Taping (reel)
B	Bulk

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN



Dimensions in mm



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CAPACITANCE RANGES

CLASS 1 (TEMPERATURE COMPENSATION)

TEMPERATURE CHARACTERISTICS

C0G (0±30ppm/°C)

RATED VOLTAGE Edc: 50V

Capacitance (pF)	Tolerance	Thickness (mm)max.	Part No.
10	±1pF	1.3	CKCA43C0G1H100F
22	±10%	1.3	CKCA43C0G1H220K
47	±10%	1.3	CKCA43C0G1H470K
100	±10%	1.3	CKCA43C0G1H101K
220	±10%	1.3	CKCA43C0G1H221K
470	±10%	1.3	CKCA43C0G1H471K

CLASS 2 (TEMPERATURE STABLE)

TEMPERATURE CHARACTERISTICS: X7R (±15%)

RATED VOLTAGE Edc: 50V

Capacitance (pF)	Tolerance	Thickness (mm)max.	Part No.
470	±20%	1.3	CKCA43X7R1H471M
1000	±20%	1.3	CKCA43X7R1H102M
2200	±20%	1.3	CKCA43X7R1H222M
4700	±20%	1.3	CKCA43X7R1H472M
10000	±20%	1.3	CKCA43X7R1H103M
22000	±20%	1.3	CKCA43X7R1H223M

RATED VOLTAGE Edc:25V

Capacitance (pF)	Tolerance	Thickness (mm)max.	Part No.
47000	±20%	1.3	CKCA43X7R1E473M

RATED VOLTAGE Edc:16V

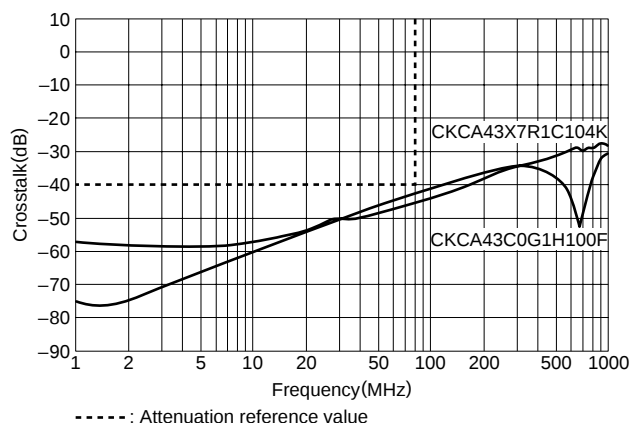
Capacitance (pF)	Tolerance	Thickness (mm)max.	Part No.
100000	±20%	1.3	CKCA43X7R1C104M [0.1μF]

TEMPERATURE CHARACTERISTICS: Y5V (+22, -82%)

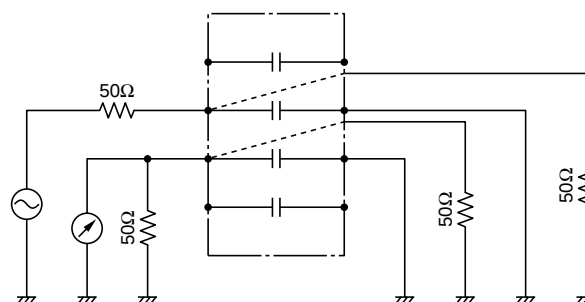
RATED VOLTAGE Edc:16V

Capacitance (pF)	Tolerance	Thickness (mm)max.	Part No.
100000	+80, -20%	1.3	CKCA43Y5V1C104Z
220000	+80, -20%	1.3	CKCA43Y5V1C224Z
470000	+80, -20%	1.3	CKCA43Y5V1C474Z

TYPICAL CROSSTALK CHARACTERISTICS



MEASURING CIRCUIT



- Measurement were performed by wiring this product onto a printed circuit board configured as in the diagram above.

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