

2-element Multilayer Ceramic Chip Capacitor Array CKC Series

FEATURES

- Two capacitors are fitted in a single product, contributing to reduced installation costs.
- The electrostatic capacity range and shape are designed to meet the demands of the cellular phone market.
- Reduced crosstalk (signal interference) between the terminals.
- Available on tape or in bulk.

PRODUCT IDENTIFICATION

CKC M25 JB 1A 223 M □
(1) (2) (3) (4) (5) (6) (7)

(1) Series name

(2) Dimensions L×W

M25	1.37×1.0mm
L22	2.0×1.25mm

(3) Capacitance temperature characteristics

Class 1 (Temperature compensation)

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

Class 2 (Temperature stable and general purpose)

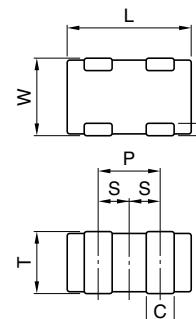
Temperature characteristics	Capacitance change	Temperature range
B(JB*)	±10%	-25 to +85°C
X7R	±15%	-55 to +125°C
X5R	±15%	-55 to +85°C

*JB(JIS: BJ)

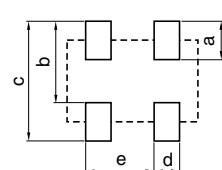
(4) Rated voltage Edc

0J	6.3V
1A	10V
1C	16V
1E	25V
1H	50V

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN



Dimensions in mm	
Type	CKCM25 CKCL22
L	1.37±0.15 2.0±0.15
W	1.0±0.15 1.25±0.15
T	0.9max. 1.0max.
C	0.36±0.1 0.45±0.1
CL	0.20±0.1 0.20±0.2, -0.1
P	0.64±0.1 1.0±0.1
S	0.32±0.1 0.32±0.1



Dimensions in mm	
Type	CKCM25 CKCL22
a	0.45 0.60
b	0.75 1.00
c	1.20 1.60
d	0.30 0.50
e	0.64 1.00



- All specifications are subject to change without notice.

CKCM25 TYPE**CAPACITANCE RANGES: CLASS 1****TEMPERATURE CHARACTERISTICS:**

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

RATED VOLTAGE Edc: 50V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
10	±1pF	0.66	CKCM25CH1H100F
15	±10%	0.66	CKCM25CH1H150K
22	±10%	0.66	CKCM25CH1H220K
33	±10%	0.66	CKCM25CH1H330K
47	±10%	0.66	CKCM25CH1H470K
68	±10%	0.66	CKCM25CH1H680K
100	±10%	0.66	CKCM25CH1H101K

- Part number for temperature characteristic C0G

Please substitute "C0G" for "CH" in the part number when ordering.

CAPACITANCE RANGES: CLASS 2**TEMPERATURE CHARACTERISTICS:**

JIS B(BJ)(±10%), EIA X5R/X7R(±15%)

RATED VOLTAGE Edc: 50V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
1,000	±20%	0.66	CKCM25JB1H102M
2,200	±20%	0.66	CKCM25JB1H222M

RATED VOLTAGE Edc: 25V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
4,700	±20%	0.66	CKCM25JB1E472M

RATED VOLTAGE Edc: 16V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
10,000	±20%	0.66	CKCM25JB1C103M

- Part number for temperature characteristic X5R or X7R

Please substitute "X5R" or "X7R" for "JB" in the part number when ordering.

TEMPERATURE CHARACTERISTICS:

JIS B(BJ)(±10%), EIA X5R(±15%)

RATED VOLTAGE Edc: 10V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
22,000	±20%	0.66	CKCM25JB1A223M
47,000	±20%	0.66	CKCM25JB1A473M

RATED VOLTAGE Edc: 6.3V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
100,000	±20%	0.66	CKCM25JB0J104M
220,000	±20%	0.66	CKCM25JB0J224M
470,000	±20%	0.9	CKCM25JB0J474M
1,000,000 [1μF]	±20%	0.9	CKCM25JB0J105M

- Part number for temperature characteristic X5R

Please substitute "X5R" for "JB" in the part number when ordering.

CKCL22 TYPE**CAPACITANCE RANGES: CLASS 1****TEMPERATURE CHARACTERISTICS:**

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

RATED VOLTAGE Edc: 50V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
10	±1pF	1	CKCL22CH1H100F
15	±10%	1	CKCL22CH1H150K
22	±10%	1	CKCL22CH1H220K
33	±10%	1	CKCL22CH1H330K
39	±10%	1	CKCL22CH1H390K
47	±10%	1	CKCL22CH1H470K
68	±10%	1	CKCL22CH1H680K
100	±10%	1	CKCL22CH1H101K
150	±10%	1	CKCL22CH1H151K
220	±10%	1	CKCL22CH1H221K
330	±10%	1	CKCL22CH1H331K
470	±10%	1	CKCL22CH1H471K

- Part number for temperature characteristic C0G

Please substitute "C0G" for "CH" in the part number when ordering.

CAPACITANCE RANGES: CLASS 2**TEMPERATURE CHARACTERISTICS:**

JIS B(BJ)(±10%), EIA X5R/X7R(±15%)

RATED VOLTAGE Edc: 50V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
1,000	±20%	1	CKCL22JB1H102M
2,200	±20%	1	CKCL22JB1H222M
4,700	±20%	1	CKCL22JB1H472M
10,000	±20%	1	CKCL22JB1H103M

RATED VOLTAGE Edc: 25V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
22,000	±20%	1	CKCL22JB1E223M
47,000	±20%	1	CKCL22JB1E473M

RATED VOLTAGE Edc: 16V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
100,000	±20%	1	CKCL22JB1C104M

- Part number for temperature characteristic X5R or X7R

Please substitute "X5R" or "X7R" for "JB" in the part number when ordering.

TEMPERATURE CHARACTERISTICS:

JIS B(BJ)(±10%), EIA X5R(±15%)

RATED VOLTAGE Edc: 10V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
220,000	+80, -20%	1	CKCL22JB1A224Z

RATED VOLTAGE Edc: 6.3V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
470,000	+80, -20%	1	CKCL22JB0J474Z
1,000,000 [1μF]	+80, -20%	1	CKCL22JB0J105Z

- Part number for temperature characteristic X5R

Please substitute "X5R" for "JB" in the part number when ordering.

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

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