

LW Flipped Type Multilayer Ceramic Chip Capacitors

C Series

FEATURES

- Positioning the electrodes along the length of the chip device, reduces ESR and ESL components over conventional products.
- Provides high frequency noise suppression effect because the resonating frequency is high.
- Target application : IC decoupling.

PRODUCT IDENTIFICATION

C 1220 JB 1E 104 K □
 (1) (2) (3) (4) (5) (6) (7)

(1) Series name

(2) Dimensions L×W

0816	0.8×1.6mm
1220	1.25×2.0mm
1632	1.6×3.2mm

(3) Capacitance temperature characteristics

Class 2

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

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

APPLICATIONS

Personal computers, word processors, portable telephones, cordless telephones, camcorders, etc.

(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.

R designates a decimal point.

104	100,000pF
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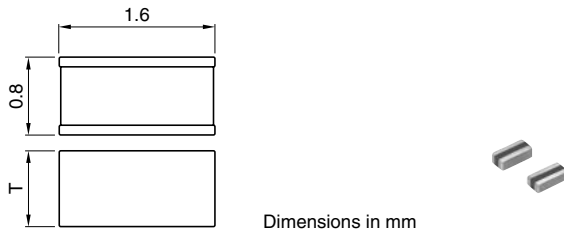
(6) Capacitance tolerance

K	±10%
M	±20%

(7) Packaging style

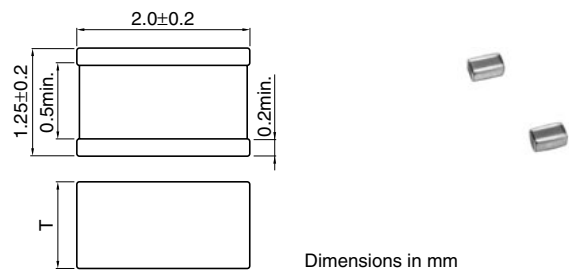
T	Taping (reel)
B	Bulk

C0816 (EIA CC0306) TYPE SHAPES AND DIMENSIONS



Dimensions in mm

C1220 (EIA CC0508) TYPE SHAPES AND DIMENSIONS



Dimensions in mm

CAPACITANCE RANGES: CLASS 2 TEMPERATURE CHARACTERISTICS:

JIS B(BJ)(±10%), EIA X5R/X7R(±15%)

RATED VOLTAGE Edc: 16V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
10,000	±10%	0.50±0.05	C0816JB1C103K
	±20%	0.50±0.05	C0816JB1C103M
22,000	±10%	0.50±0.05	C0816JB1C223K
	±20%	0.50±0.05	C0816JB1C223M
47,000	±10%	0.50±0.05	C0816JB1C473K
	±20%	0.50±0.05	C0816JB1C473M
100,000	±10%	0.50±0.05	C0816JB1C104K
	±20%	0.50±0.05	C0816JB1C104M

- 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	±10%	0.50±0.05	C0816JB1A224K
	±20%	0.50±0.05	C0816JB1A224M

- Part number for temperature characteristic X5R
Please substitute "X5R" for "JB" 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
10,000	±10%	0.85±0.15	C1220JB1H103K
	±20%	0.85±0.15	C1220JB1H103M
22,000	±10%	0.85±0.15	C1220JB1H223K
	±20%	0.85±0.15	C1220JB1H223M
47,000	±10%	0.85±0.15	C1220JB1H473K
	±20%	0.85±0.15	C1220JB1H473M

RATED VOLTAGE Edc: 25V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
100,000	±10%	0.85±0.15	C1220JB1E104K
	±20%	0.85±0.15	C1220JB1E104M

RATED VOLTAGE Edc: 16V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
220,000	±10%	0.85±0.15	C1220JB1C224K
	±20%	0.85±0.15	C1220JB1C224M

- Part number for temperature characteristic X5R or X7R
Please substitute "X5R" or "X7R" for "JB" in the part number when ordering.

TEMPERATURE CHARACTERISTICS:

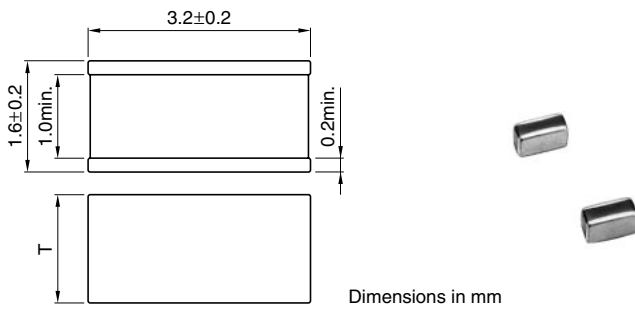
JIS B(BJ)(±10%), EIA X5R(±15%)

RATED VOLTAGE Edc: 10V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
470,000	±10%	0.85±0.15	C1220JB1A474K
	±20%	0.85±0.15	C1220JB1A474M
1,000,000 [1μF]	±10%	0.85±0.15	C1220JB1A105K
	±20%	0.85±0.15	C1220JB1A105M

- 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.

C1632 (EIA CC0612) TYPE SHAPES AND DIMENSIONS



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
10,000	±10%	0.7±0.1	C1632JB1H103K
	±20%	0.7±0.1	C1632JB1H103M
22,000	±10%	0.7±0.1	C1632JB1H223K
	±20%	0.7±0.1	C1632JB1H223M
47,000	±10%	0.7±0.1	C1632JB1H473K
	±20%	0.7±0.1	C1632JB1H473M
100,000	±10%	0.7±0.1	C1632JB1H104K
	±20%	0.7±0.1	C1632JB1H104M
220,000	±10%	1.15±0.15	C1632JB1H224K
	±20%	1.15±0.15	C1632JB1H224M

RATED VOLTAGE Edc: 25V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
220,000	±10%	0.7±0.1	C1632JB1E224K
	±20%	0.7±0.1	C1632JB1E224M
470,000	±10%	1.15±0.15	C1632JB1E474K
	±20%	1.15±0.15	C1632JB1E474M

RATED VOLTAGE Edc: 16V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
470,000	±10%	0.7±0.1	C1632JB1C474K
	±20%	0.7±0.1	C1632JB1C474M
1,000,000 [1μF]	±10%	1.15±0.15	C1632JB1C105K
	±20%	1.15±0.15	C1632JB1C105M

- 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

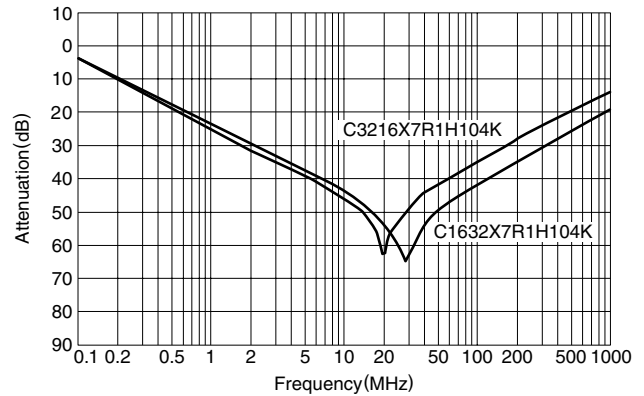
Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
1,000,000 [1μF]	±10%	0.7±0.1	C1632JB1A105K
	±20%	0.7±0.1	C1632JB1A105M
2,200,000	±10%	1.15±0.15	C1632JB1A225K
	±20%	1.15±0.15	C1632JB1A225M

RATED VOLTAGE Edc: 6.3V

Capacitance (pF)	Tolerance	Thickness T (mm)max.	Part number
4,700,000 [4.7μF]	±10%	1.3±0.15	C1632JB0J475K
	±20%	1.3±0.15	C1632JB0J475M

- Part number for temperature characteristic X5R
Please substitute "X5R" for "JB" in the part number when ordering.

TYPICAL ELECTRICAL CHARACTERISTICS ATTENUATION vs. FREQUENCY CHARACTERISTICS



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