

Multilayer Ceramic Chip Capacitors

Low ESL, Ultra low inductance

CLL series

Type: **CLLC1A**
 CLLE1A

Issue date: April 2007

- All specifications are subject to change without notice.
 - Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
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REMINDERS

Please read this before using the product.

SAFETY REMINDERS

REMINDERS

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8. The descriptions in this catalog apply as of April 2007.

Ultra Low Inductance Multilayer Ceramic Chip Capacitors

Conformity to RoHS Directive

CLL Series CLLC1A Type

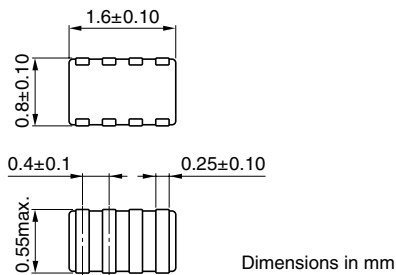
FEATURES

- Features a unique internal structure that cancels magnetic fields to reduce inductance.
- Compact and lightweight
- This product contains no lead and supports lead-free soldering.

APPLICATIONS

Power supply circuits for CPUs and high-speed digital ICs.

SHAPES AND DIMENSIONS



PRODUCT IDENTIFICATION

CLL	C1A	X7S	0G	334	M	□
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series name

(2) Dimension code

C1A	1.6×0.8mm
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(3) Capacitance temperature characteristics

Class 2 (Temperature stable and general purpose)

Temperature characteristics	Capacitance change	Temperature range
X7S	±22%	-55 to +125°C

(4) Rated voltage E_{dc}

0G	4V
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(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.

334	330,000pF
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(6) Capacitance tolerance

Symbol	Tolerance
M	±20%

(7) Packaging style

T	Taping (reel)
B	Bulk

CAPACITANCE RANGES: CLASS 2

TEMPERATURE CHARACTERISTICS: X7S(±22%)

RATED VOLTAGE E_{dc}: 4V

Capacitance (pF)	Tolerance	Thickness T (mm)	Part No.
330,000	±20%	0.55max.	CLLC1AX7S0G334M
470,000	±20%	0.55max.	CLLC1AX7S0G474M
680,000	±20%	0.55max.	CLLC1AX7S0G684M
1,000,000	±20%	0.55max.	CLLC1AX7S0G105M

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

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CLL Series CLLE1A Type

Conformity to RoHS Directive

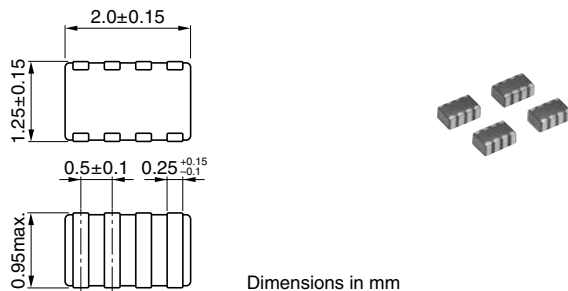
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SHAPES AND DIMENSIONS



Dimensions in mm

PRODUCT IDENTIFICATION

CLL E1A X7R 1A 104 M □
(1) (2) (3) (4) (5) (6) (7)

(1) Series name

(2) Dimension code

E1A	2.0×1.25mm
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(3) Capacitance temperature characteristics

Class 2 (Temperature stable and general purpose)

Temperature characteristics	Capacitance change	Temperature range
X7R	±15%	-55 to +125°C
X7S	±22%	-55 to +125°C

(4) Rated voltage E_{dc}

1A	10V
0J	6.3V
0G	4V

(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

Symbol	Tolerance
M	±20%

(7) Packaging style

T	Taping (reel)
B	Bulk

CAPACITANCE RANGES: CLASS 2

TEMPERATURE CHARACTERISTICS: X7R(±15%)

RATED VOLTAGE E_{dc}: 10V

Capacitance (pF)	Tolerance	Thickness T (mm)	Part No.
100,000	±20%	0.55max.	CLLE1AX7R1A104M
150,000	±20%	0.55max.	CLLE1AX7R1A154M
220,000	±20%	0.55max.	CLLE1AX7R1A224M
330,000	±20%	0.55max.	CLLE1AX7R1A334M

RATED VOLTAGE E_{dc}: 6.3V

Capacitance (pF)	Tolerance	Thickness T (mm)	Part No.
470,000	±20%	0.55max.	CLLE1AX7R0J474M
680,000	±20%	0.55max.	CLLE1AX7R0J684M
1,000,000	±20%	0.95max.	CLLE1AX7R0J105M
1,500,000	±20%	0.95max.	CLLE1AX7R0J155M

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TEMPERATURE CHARACTERISTICS: X7S(±22%)

 RATED VOLTAGE E_{dc}: 4V

Capacitance (pF)	Tolerance	Thickness T (mm)	Part No. Temperature characteristics: X7S
1,000,000	±20%	0.55max.	CLLE1AX7S0G105M
1,500,000	±20%	0.55max.	CLLE1AX7S0G155M
2,200,000	±20%	0.55max./ 0.95max.	CLLE1AX7S0G225M
4,700,000	±20%	0.95max.	CLLE1AX7S0G475M

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