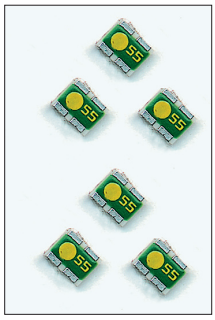
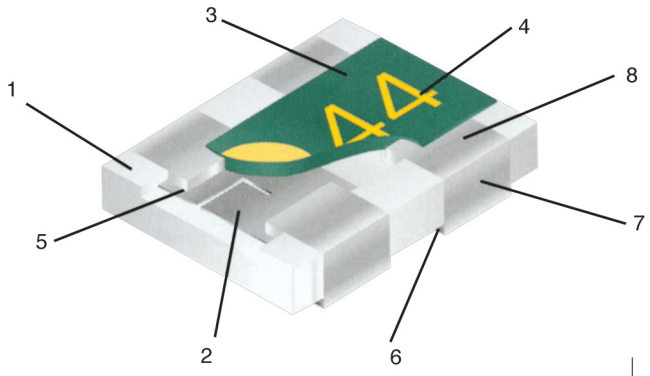
THIN FILM R-NETWORKS

PAIR RESISTORS

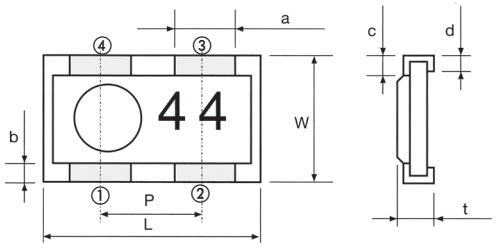
CNN





STRUCTURE

1 Ceramic substrate
2 Metal film (trimmed)
3 Epoxy resin
4 Marking
5 Inner top termination
6 Inner bottom termination
7 Outer End termination
8 Solder plating



Products with Pb-free terminations meet EU-RoHS and China-RoHS requirements

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
CNN 2A	Green	Yellow, 2 digits + Pin 1 indicator

TYPE DESIGNATION (HOW TO ORDER)

CNN	2A	2	T	TE	103/103	B	A
PRODUCT CODE CNN	STYLE	NUMBER OF ELEMENTS	TERMINATION SURFACE MATERIAL T: Sn (L: Sn/Pb)	TAPING* TE, BK *Please see "PACKAGING"	NOMINAL RESISTANCE 3 digits	ABSOLUTE RESISTANCE TOLERANCE B: (±0.1%) C: (±0.25%)	RATIO RESISTANCE TOLERANCE A: (0.05%) B: (0.1%)

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

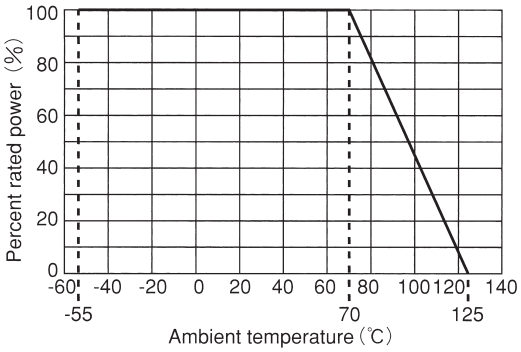
DIMENSIONS (mm)

TYPE	L	W	t	P	a	c	d	b
CNN	2.54 ± 0.2	2.0 ± 0.2	0.5 ± 0.1	(1.27)	0.7 ± 0.15	0.4 ± 0.3	0.3 ± 0.2	0.4 ± 0.3

FEATURES

- Thin film chip resistor network
- Pair resistor for high precision op-amplifier
- Excellent in relative T.C.R. and relative accuary
- Any pairs between 1 kΩ and 100 kΩ on request
- Meets or exceeds IEC 60115-1, JIS C 5201-1
- Operating temperature range: - 55° C ... + 125° C
- Rated ambient temperature: + 70° C
- Suitable for reflow soldering

DERATING CURVE



RATING

SIZE	TYPE	T.C.R. (ppm/K) ABSOLUTE	T.C.R. (ppm/K) RELATIVE TRACKING	POWER RATING (per element)*	RATED AMBIENT TEMP.	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	RESISTANCE VALUES	RESISTANCE TOLERANCE ABSOLUTE	RESISTANCE TOLERANCE RATIO (TRACKING)
1008 (2 x 0805)	CNN 2A 2	F (± 25)	5	0.05 W	+70° C	50 V	100 V	1 kΩ, 10 kΩ, 100 kΩ	B (± 0.1%) C (± 0.25%)	A (0.05%) B (0.1%)

* For resistors operated at an higher ambient temperature than rated, the power should derated in accordance with the above 'DERATING CURVE'.
Rated voltage = $\sqrt{\text{Power rating x resistance value}}$ or max. working voltage, whichever is lower.

RESISTANCE COMBINATIONS AND MARKING

	CNN	CNN	CNN	CNN	CNN	CNN
Value of resistor 1	1 kΩ	1 kΩ	1 kΩ	10 kΩ	10 kΩ	100 kΩ
Value of resistor 2	1 kΩ	10 kΩ	100 kΩ	10 kΩ	100 kΩ	100 kΩ
First marking number	3	3	3	4	4	5
Second marking number	3	4	5	4	5	5

CNN: Custom products of any pairs between 1kΩ and 100 kΩ are available on request.

CIRCUIT CONSTRUCTION