

DATA SHEET

GENERAL PURPOSE CHIP RESISTORS

RC_L series

$\pm 0.1\%$, $\pm 0.5\%$, $\pm 1\%$, $\pm 5\%$

Sizes 0075/0100/0201/0402/0603/0805/
1206/1210/1218/2010/2512

RoHS compliant & Halogen free



SCOPE

This specification describes RC series chip resistors with lead free terminations made by thick film process.

APPLICATIONS

- All general purpose application

FEATURES

- Halogen Free Epoxy
- RoHS compliant
 - Products with lead free terminations meet RoHS requirements
 - Pb-glass contained in electrodes, resistors element and glass are exempted by RoHS
- Reducing environmentally hazardous wastes
- High component and equipment reliability
- Saving of PCB space
- None forbidden-materials used in products/production
- MSL class: MSL I

ORDERING INFORMATION - GLOBAL PART NUMBER

Global part numbers are identified by the series, size, tolerance, packing type, temperature coefficient, taping reel and resistance value.

GLOBAL PART NUMBER

RC XXXX X X X XX XXXX L
 (1) (2) (3) (4) (5) (6) (7)

(1) SIZE

0075/0100/0201/0402/0603/0805/1206/1210/1218/2010/2512

(2) TOLERANCE

B = $\pm 0.1\%$

D = $\pm 0.5\%$

F = $\pm 1.0\%$

J = $\pm 5.0\%$ (for jumper ordering, use code of J)

(3) PACKAGING TYPE

R = Paper taping reel

K = Embossed taping reel

S = ESD safe reel (0075/0100 only)

(4) TEMPERATURE COEFFICIENT OF RESISTANCE

— = Based on spec.

(5) TAPING REEL & POWER

07 = 7 inch dia. Reel & Standard power

10 = 10 inch dia. Reel

13 = 13 inch dia. Reel

7W = 7 inch dia. Reel & 2 x standard power

7N = 7 inch dia. Reel, ESD safe reel (0075/0100 only)

3W = 13 inch dia. Reel & 2 x standard power

(6) RESISTANCE VALUE

There are 2~4 digits indicated the resistance value.

Letter R/K/M is decimal point

Example:

97R6 = 97.6Ω

9K76 = 9760Ω

1M = $1,000,000\Omega$

(7) DEFAULT CODE

Letter L is the system default code for ordering only.^(Note)

ORDERING EXAMPLE

The ordering code for a RC0402 0.0625W chip resistor value $100K\Omega$ with $\pm 5\%$ tolerance, supplied in 7-inch tape reel of 10,000 units per reel is: RC0402JR-07100KL.

NOTE

- All our RSMD products meet RoHS compliant and Halogen Free. "LFP" of the internal 2D reel label mentions "Lead Free Process".
- On customized label, "LFP" or specific symbol can be printed.

MARKING

RC0075 / RC0100 / RC0201 / RC0402



No Marking

Fig. 1

RC0603



1%, 0.5%, E24 exception values 10/11/13/15/20/75 of E24 series

Fig. 2 $240 = 24 \times 10^0 = 24$



1%, 0.5%, E96 refer to EIA-96 marking method, including values 10/11/13/15/20/75 of E24 series

Fig. 3 $88A = 806 \times 10^0 = 806 \Omega$



5%, E24 series : 3 digits
First two digits for significant figure and 3rd digit for number of zeros

Fig. 4 Value = 10 K Ω

RC0805 / RC1206 / RC1210 / RC2010 / RC2512



1%, 0.5%, E24/E96 series : 4 digits
First three digits for significant figure and 4th digit for number of zeros

Fig. 5 Value = 10 K Ω



5%, E24 series : 3 digits
First two digits for significant figure and 3rd digit for number of zeros

Fig. 6 Value = 10 K Ω

RC1218



E-24 series: 3 digits, $\pm 5\%$
First two digits for significant figure and 3rd digit for number of zeros

Fig. 7 Value = 10 K Ω



Both E-24 and E-96 series: 4 digits, $\pm 1\%$ & $\pm 0.5\%$
First three digits for significant figure and 4th digit for number of zeros

Fig. 8 Value = 10 K Ω

For further marking information, please see special data sheet "Chip resistors marking".

CONSTRUCTION

The resistor is constructed on top of a high-grade ceramic body. Internal metal electrodes are added on each end to make the contacts to the thick film resistive element. The composition of the resistive element is a noble metal imbedded into a glass and covered by a second glass to prevent environmental influences. The resistor is laser trimmed to the rated resistance value. The resistor is covered with a protective epoxy coat, finally the two external terminations (matte tin on Ni-barrier) are added, as shown in Fig.9.

Outlines



DIMENSION

Table 1

| TYPE | L (mm) | W (mm) | H (mm) | L ₁ (mm) | L ₂ (mm) |
|--------|-----------|-----------|-----------|---------------------|---------------------|
| RC0075 | 0.30±0.01 | 0.15±0.01 | 0.13±0.01 | 0.08±0.03 | 0.08±0.03 |
| RC0100 | 0.40±0.02 | 0.20±0.02 | 0.13±0.02 | 0.10±0.03 | 0.10±0.03 |
| RC0201 | 0.60±0.03 | 0.30±0.03 | 0.23±0.03 | 0.10±0.05 | 0.15±0.05 |
| RC0402 | 1.00±0.05 | 0.50±0.05 | 0.35±0.05 | 0.20±0.10 | 0.25±0.10 |
| RC0603 | 1.60±0.10 | 0.80±0.10 | 0.45±0.10 | 0.25±0.15 | 0.25±0.15 |
| RC0805 | 2.00±0.10 | 1.25±0.10 | 0.50±0.10 | 0.35±0.20 | 0.35±0.20 |
| RC1206 | 3.10±0.10 | 1.60±0.10 | 0.55±0.10 | 0.45±0.20 | 0.45±0.20 |
| RC1210 | 3.10±0.10 | 2.60±0.15 | 0.55±0.10 | 0.45±0.15 | 0.50±0.20 |
| RC1218 | 3.10±0.10 | 4.60±0.10 | 0.55±0.10 | 0.45±0.20 | 0.40±0.20 |
| RC2010 | 5.00±0.10 | 2.50±0.15 | 0.55±0.10 | 0.60±0.20 | 0.55±0.20 |
| RC2512 | 6.35±0.10 | 3.10±0.15 | 0.55±0.10 | 0.60±0.20 | 0.60±0.20 |

ELECTRICAL CHARACTERISTICS

Table 2

| CHARACTERISTICS | POWER | OPERATING TEMPERATURE RANGE | MAXIMUM WORKING VOLTAGE | MAXIMUM OVERLOAD VOLTAGE | DIELECTRIC WITHSTANDING VOLTAGE | RESISTANCE RANGE | TEMPERATURE COEFFICIENT | JUMPER CRITERIA |
|-----------------|------------------|-----------------------------|-------------------------|--------------------------|---------------------------------|------------------|-------------------------|-------------------------|
| RC0075 | 1/50 W | -55°C to 125°C | 10V | 25V | 25V | 5% (E24) | 10Ω ≤ R < 100Ω | Rated Current 0.5A |
| | | | | | | 10Ω ≤ R ≤ 1MΩ | -200~+600ppm/°C | |
| | | | | | | 1% (E24/E96) | 100Ω ≤ R ≤ 1MΩ | Maximum Current 1.0A |
| | | | | | | 10Ω ≤ R ≤ 1MΩ | ±200ppm/°C | |
| RC0100 | 1/32 W | -55°C to 125°C | 15V | 30V | 30V | 5% (E24) | 1Ω ≤ R < 10Ω | Rated Current 0.5A |
| | | | | | | 1Ω ≤ R ≤ 22MΩ | -200~+600ppm/°C | |
| | | | | | | 1% (E24/E96) | 10Ω ≤ R < 100Ω: | Maximum Current 1.0A |
| | | | | | | 1Ω ≤ R ≤ 10MΩ | ±300ppm/°C | |
| | | | | | | 0.5% (E24/E96) | 100Ω ≤ R ≤ 10MΩ: | |
| | | | | | | 33Ω ≤ R ≤ 470KΩ | ±200ppm/°C | |
| Jumper < 50mΩ | 10MΩ < R ≤ 22MΩ: | ±250ppm/°C | | | | | | |

Table 2

| CHARACTERISTICS | POWER | OPERATING TEMPERATURE RANGE | MAXIMUM WORKING VOLTAGE | MAXIMUM OVERLOAD VOLTAGE | DIELECTRIC WITHSTANDING VOLTAGE | RESISTANCE RANGE | TEMPERATURE COEFFICIENT | JUMPER CRITERIA |
|-----------------|--------|-----------------------------|-------------------------|--------------------------|---------------------------------|-------------------------------|-------------------------|--|
| RC0201 | 1/20 W | -55°C to 125°C | 25V | 50V | 50V | 5% (E24) 1Ω ≤ R ≤ 10MΩ | 1Ω ≤ R ≤ 10Ω | Rated Current 0.5A Maximum Current 1.0A |
| | | | | | | 1% (E24/E96) 1Ω ≤ R ≤ 10MΩ | -100~+350ppm/°C | |
| RC0402 | 1/16 W | -55°C to 155°C | 50V | 100V | 100V | 5% (E24) 1Ω ≤ R ≤ 22MΩ | 1Ω ≤ R ≤ 10Ω | Rated Current 1.0A Maximum Current 2.0A |
| | | | | | | 1% (E24/E96) 1Ω ≤ R ≤ 10MΩ | ±200ppm/°C | |
| RC0603 | 1/10 W | -55°C to 155°C | 75V | 150V | 150V | 5% (E24) 1Ω ≤ R ≤ 22MΩ | 1Ω ≤ R ≤ 10Ω | Rated Current 1.0A Maximum Current 2.0A |
| | | | | | | 1% (E24/E96) 1Ω ≤ R ≤ 10MΩ | ±200ppm/°C | |
| RC0805 | 1/8 W | -55°C to 155°C | 150V | 300V | 300V | 5% (E24) 1Ω ≤ R ≤ 100MΩ | 1Ω ≤ R ≤ 10Ω | Rated Current 2.0A Maximum Current 5.0A |
| | | | | | | 1% (E24/E96) 1Ω ≤ R ≤ 10MΩ | ±200ppm/°C | |
| RC0805 | 1/4 W | -55°C to 155°C | 150V | 300V | 300V | 5% (E24) 1Ω ≤ R ≤ 10MΩ | 1Ω ≤ R ≤ 1MΩ | Rated Current 2.0A Maximum Current 5.0A |
| | | | | | | 1% (E24/E96) 1Ω ≤ R ≤ 1MΩ | ±200ppm/°C | |

FOOTPRINT AND SOLDERING PROFILES

For recommended footprint and soldering profiles, please refer to data sheet “Chip resistors mounting”

Table 3

| CHARACTERISTICS | POWER | OPERATING TEMPERATURE RANGE | MAXIMUM WORKING VOLTAGE | MAXIMUM OVERLOAD VOLTAGE | DIELECTRIC WITHSTANDING VOLTAGE | RESISTANCE RANGE | TEMPERATURE COEFFICIENT | JUMPER CRITERIA |
|-----------------|-------|-----------------------------|-------------------------|--------------------------|---------------------------------|---|---|---|
| RC1206 | 1/4 W | -55°C to 155°C | 200V | 400V | 500V | 5% (E24) 1Ω ≤ R ≤ 100MΩ 1% (E24/E96) 1Ω ≤ R ≤ 10MΩ 0.5% (E24/E96) 1Ω ≤ R ≤ 1MΩ 0.1% (E24/E96) 10Ω ≤ R ≤ 1MΩ 10%, 20% (E24) 24MΩ ≤ R ≤ 100MΩ Jumper < 50mΩ | 1Ω ≤ R ≤ 10Ω ±200ppm°C 10Ω < R ≤ 10MΩ ±100ppm°C 10MΩ < R ≤ 22MΩ ±200ppm°C 24MΩ ≤ R ≤ 100MΩ ±100MΩ ±300ppm°C | Rated Current 2.0A Maximum Current 10.0A |
| | 1/2 W | -55°C to 155°C | 200V | 400V | 500V | 5% (E24) 1Ω ≤ R ≤ 1MΩ 1% (E24/E96) 1Ω ≤ R ≤ 1MΩ | 1Ω ≤ R ≤ 1MΩ ±200ppm°C | |
| RC1210 | 1/2 W | -55°C to 155°C | 200V | 500V | 500V | 5% (E24) 1Ω ≤ R ≤ 22MΩ 1% (E24/E96) 1Ω ≤ R ≤ 10MΩ 0.1%, 0.5% (E24/E96) 10Ω ≤ R ≤ 1MΩ Jumper < 50mΩ | 1Ω ≤ R ≤ 10Ω ±200ppm°C 10Ω < R ≤ 10MΩ ±100ppm°C 10MΩ < R ≤ 22MΩ ±200ppm°C | Rated Current 2.0A Maximum Current 10.0A |
| RC1218 | 1 W | -55°C to 155°C | 200V | 500V | 500V | 5% (E24) 1Ω ≤ R ≤ 1MΩ 1% (E24/E96) 1Ω ≤ R ≤ 1MΩ 0.1%, 0.5% (E24/E96) 10Ω ≤ R ≤ 1MΩ Jumper < 50mΩ | 1Ω ≤ R ≤ 10Ω ±200ppm°C 10Ω < R ≤ 1MΩ ±100ppm°C | Rated Current 6.0A Maximum Current 10.0A |
| RC2010 | 3/4 W | -55°C to 155°C | 200V | 500V | 500V | 5% (E24) 1Ω ≤ R ≤ 22MΩ 1% (E24/E96) 1Ω ≤ R ≤ 10MΩ 0.1%, 0.5% (E24/E96) 10Ω ≤ R ≤ 1MΩ Jumper < 50mΩ | 1Ω ≤ R ≤ 10Ω ±200ppm°C 10Ω < R ≤ 10MΩ ±100ppm°C 10MΩ < R ≤ 22MΩ ±200ppm°C | Rated Current 2.0A Maximum Current 10.0A |
| RC2512 | 1 W | -55°C to 155°C | 200V | 500V | 500V | 5% (E24) 1Ω ≤ R ≤ 22MΩ 1% (E24/E96) 1Ω ≤ R ≤ 10MΩ 0.1%, 0.5% (E24/E96) 10Ω ≤ R ≤ 1MΩ Jumper < 50mΩ | 1Ω ≤ R ≤ 10Ω ±200ppm°C 10Ω < R ≤ 10MΩ ±100ppm°C 10MΩ < R ≤ 22MΩ ±200ppm°C | Rated Current 2.0A Maximum Current 10.0A |
| | 2 W | -55°C to 155°C | 200V | 400V | 500V | 5% (E24) 1Ω ≤ R ≤ 1MΩ 1% (E24/E96) 1Ω ≤ R ≤ 1MΩ | 1Ω ≤ R ≤ 1MΩ ±200ppm°C | |

PACKING STYLE AND PACKAGING QUANTITY

Table 4 Packing style and packaging quantity

| PACKING STYLE | PAPER TAPING REEL (R) | | | ESD SAFE REEL (S) (4MM WIDTH, 1MM PITCH PLASTIC EMBOSSSED) | EMBOSSSED TAPING REEL | |
|---------------|-----------------------|-------------|--------------|---|-----------------------|--------------|
| | 7" (178 mm) | 10" (254mm) | 13" (330 mm) | | 7" (178 mm) | 13" (330 mm) |
| RC0075 | --- | --- | --- | 20000 | --- | --- |
| RC0100 | 20000 | --- | 80000 | 40000 | --- | --- |
| RC0201 | 10000 | 20000 | 50000 | --- | --- | --- |
| RC0402 | 10000 | 20000 | 50000 | --- | --- | --- |
| RC0603 | 5000 | 10000 | 20000 | --- | --- | --- |
| RC0805 | 5000 | 10000 | 20000 | --- | --- | --- |
| RC1206 | 5000 | 10000 | 20000 | --- | --- | --- |
| RC1210 | 5000 | 10000 | 20000 | --- | --- | --- |
| RC1218 | --- | --- | --- | --- | 4000 | --- |
| RC2010 | --- | --- | --- | --- | 4000 | 16000 |
| RC2512 | --- | --- | --- | --- | 4000 | --- |

NOTE

For tape and reel specification/dimensions, please refer to data sheet "Chip resistors packing".

FUNCTIONAL DESCRIPTION

OPERATING TEMPERATURE RANGE

RC0402 to RC2512 Range: -55°C to +155°C (Fig. 10-1)

RC0075 to RC0201 Range: -55°C to +125°C (Fig. 10-2)

POWER RATING

Each type rated power at 70°C:

- RC0075=1/50W
- RC0100=1/32W
- RC0201=1/20W
- RC0402=1/16W, 1/8W
- RC0603=1/10W, 1/5W
- RC0805=1/8W, 1/4W
- RC1206=1/4W, 1/2W
- RC1210=1/2W
- RC1218=1W
- RC2010=3/4W
- RC2512=1W, 2W

RATED VOLTAGE

The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula:

$$V = \sqrt{(P \times R)}$$

or max. working voltage whichever is less

Where

V = Continuous rated DC or AC (rms) working voltage (V)

P = Rated power (W)

R = Resistance value (Ω)



Fig. 10-1 Maximum dissipation (P) in percentage of rated power as a function of the operating ambient temperature (Tamb)



Fig. 10-2 Maximum dissipation (P) in percentage of rated power as a function of the operating ambient temperature (Tamb)

TESTS AND REQUIREMENTS

Table 5 Test condition, procedure and requirements

| TEST | TEST METHOD | PROCEDURE | REQUIREMENTS |
|--|---|--|--|
| Temperature Coefficient of Resistance (T.C.R.) | MIL-STD-202 Method 304 | At +25/-55°C and +25/+125°C Formula: $T.C.R = \frac{R_2 - R_1}{R_1(t_2 - t_1)} \times 10^6 \text{ (ppm/°C)}$ Where t ₁ =+25 °C or specified room temperature t ₂ =-55 °C or +125 °C test temperature R ₁ =resistance at reference temperature in ohms R ₂ =resistance at test temperature in ohms | Refer to table 2 |
| Life/Endurance | MIL-STD-202 Method 108 IEC 60115-1 7.1 | At 70±2°C for 1,000 hours; RCWV applied for 1.5 hours on and 0.5 hour off, still air required | 0075: ± (5%+100mΩ) <100mΩ for jumper 01005: ±(3% +50mΩ) <100mΩ for jumper Others: ±(1%+50mΩ) for B/D/F tol ±(3%+50mΩ) for J tol <100mR for jumper |
| High Temperature Exposure | MIL-STD-202 Method 108 | 1,000 hours at maximum operating temperature depending on specification, unpowered. | 0075: ± (5%+100mΩ) <100mΩ for jumper 01005: ±(1% +50mΩ) < 50mΩ for jumper Others: ±(1%+50mΩ) for B/D/F tol ±(2%+50mΩ) for J tol <50mR for jumper |
| Moisture Resistance | MIL-STD-202 Method 106 | Each temperature / humidity cycle is defined at 8 hours, 3 cycles / 24 hours for 10d with 25°C / 65°C 95% R.H, without steps 7a & 7b, unpowered Parts mounted on test-boards, without condensation on parts | 0075: ± (2%+100mΩ) <100mΩ for jumper 01005: ±(2% +50mΩ) < 100mΩ for jumper Others: ±(0.5%+50mΩ) for B/ D/F tol ±(2%+50mΩ) for J tol <100mR for jumper |
| Humidity | IEC 60115-1 10.4 | Steady state for 1000 hours at 40°C / 95% R.H. RCWV applied for 1.5 hours on and 0.5 hour off | 0075: ± (5%+100mΩ) 01005: ±(3% +50mΩ) < 100mΩ for jumper Others: ±(1%+50mΩ) for B/D/F tol ±(2%+50mΩ) for J tol <100mR for jumper |

| TEST | TEST METHOD | PROCEDURE | REQUIREMENTS |
|--------------------------------------|------------------------|--|--|
| Thermal Shock | MIL-STD-202 Method 107 | -55/+125°C Note Number of cycles required is 300. Devices mounted Maximum transfer time is 20 seconds. Dwell time is 15 minutes. Air - Air | 0075/01005: $\pm(1\% + 50m\Omega)$ < 50m Ω for jumper Others: $\pm(0.5\% + 50m\Omega)$ for B/D/F tol $\pm(1\% + 50m\Omega)$ for J tol < 50mR for jumper |
| Short Time Overload | IEC 60115-1 8.1 | 2.5 times RCWV or maximum overload voltage which is less for 5 seconds at room temperature | 0075/01005: $\pm(2\% + 50m\Omega)$ < 50m Ω for jumper Others: $\pm(1\% + 50m\Omega)$ for B/D/F tol $\pm(2\% + 50m\Omega)$ for J tol <50mR for jumper No visible damage |
| Board Flex/Bending | IEC 60115-1 9.8 | Device mounted or as described only 1 board bending required bending time: 60 \pm 5 seconds 0075/0100/0201/0402:5mm; 0603/0805:3mm; 1206 and above:2mm | 0075/01005: $\pm(1\% + 50m\Omega)$ < 50m Ω for jumper Others: $\pm(1\% + 50m\Omega)$ for B/D/F/J tol <50mR for jumper No visible damage |
| Solderability - Wetting | J-STD-002 test B1 | Electrical Test not required Magnification 50X SMD conditions: 1 st step: aging 4 hours at 155°C dry heat 2 nd step: method B1, leadfree solder bath at 245 \pm 3°C Dipping time: 3 \pm 0.5 seconds | Well tinned (>95% covered) No visible damage |
| -Leaching | J-STD-002 test D | Leadfree solder ,260°C, 30 seconds immersion time | No visible damage |
| -Resistance to Soldering Heat | MIL-STD-202 Method 210 | Condition B, no pre-heat of samples Leadfree solder, 260°C \pm 5°C, 10 \pm 1 seconds immersion time Procedure 2 for SMD: devices fluxed and cleaned with isopropanol | 0075: $\pm(3\% + 50m\Omega)$ <50m Ω for jumper 01005: $\pm(1\% + 50m\Omega)$ < 50m Ω for jumper Others: $\pm(0.5\% + 50m\Omega)$ for B/D/F tol. $\pm(1\% + 50m\Omega)$ for J tol. <50mR for jumper No visible damage |

REVISION HISTORY

| REVISION | DATE | CHANGE NOTIFICATION | DESCRIPTION |
|------------|---------------|---------------------|--|
| Version 12 | Aug. 02, 2022 | - | - l2 dimension updated, for size 1206, size 2010, size 2512. |
| Version 11 | May 15, 2020 | - | - Extend RC0201, RC0402, RC0603, RC0805, RC1206 D tol resistance range to 1ohm |
| Version 10 | Dec. 12, 2018 | - | - Updated 0075 dimensions |
| Version 9 | Mar. 06, 2018 | - | - Add 0.5%/1% marking rule for RC0603 ~ RC2512 based on marking datasheet |
| Version 8 | July 10, 2017 | - | - Add "3W" part number coding for 13" Reel & double power |
| Version 7 | Mar. 7, 2017 | - | - Add 10" packing |
| Version 6 | Feb.15, 2017 | - | - Extend RC0805 and RC1206 resistance range to 100Mohm |
| Version 5 | Oct. 06, 2016 | - | - Description: Update Dimension of l2 of RC2512 (2W) |
| Version 4 | Jan. 22, 2016 | - | - Update resistance range |
| Version 3 | Dec. 24, 2015 | - | - Updated test and requirements |
| Version 2 | Jul. 23, 2015 | - | - Updated test and requirements |
| Version 1 | Jan. 21, 2015 | - | - ESD Safe Reel update |
| Version 0 | Dec. 15, 2014 | - | - First issue of this specification |

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