

DATA SHEET

GENERAL PURPOSE CHIP RESISTORS

RC_L series ±0.1%, ±0.5%, ±1%, ±5%

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

RoHS compliant & Halogen free



YAGEO Phícomp



2 10

SCOPE

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

<u>APPLICATIONS</u>

• 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

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

(2) (3) (4) (5) (1)

(I) 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

07= 7 inch dia, Reel

10=10 inch dia. Reel

13=13 inch dia. Reel

7W = 7 inch dia. Reel & $2 \times$ 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:

 $97R6 = 97.6\Omega$

 $9K76 = 9760\Omega$

 $IM = 1,000,000\Omega$

(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 ±5% tolerance, supplied in 7-inch tape reel of 10,000 units per reel is: RC0402JR-07100KL.

NOTE

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



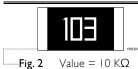
MARKING

RC0075 / RC0100 / RC0201 / RC0402



No Marking

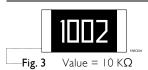
RC0603



E24 series: 3 digits

First two digits for significant figure and 3rd digit for number of zeros

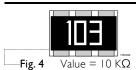
RC0805 / RC1206 / RC1210 / RC2010 / RC2512



E24/E96 series: 4 digits

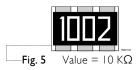
First three digits for significant figure and 4th digit for number of zeros

RC1218



E-24 series: 3 digits, ±5%

First two digits for significant figure and 3rd digit for number of zeros



Both E-24 and E-96 series: 4 digits, ±1% & ±0.5%

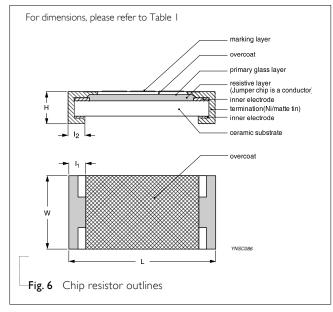
First three digits for significant figure and 4th digit for number of zeros

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.6.

Outlines





Chip Resistor Surface Mount

RC_L

SERIES 0075 to 2512

<u>DIMENSION</u>

Table I

| TYPE | L (mm) | W (mm) | H (mm) | I _I (mm) | I ₂ (mm) |
|--------|-----------|-----------|-----------|---------------------|---------------------|
| RC0075 | 0.30±0.01 | 0.15±0.01 | 0.10±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 | 0.40±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 | 0.45±0.15 | 0.50±0.20 |
| RC2512 | 6.35±0.10 | 3.10±0.15 | 0.55±0.10 | 0.60±0.20 | 0.50±0.20 |

ELECTRICAL CHARACTERISTICS

Table 2

| CHARAC- TERISTICS | POWER | OPERATING TEMPERATURE RANGE | MAXIMUM WORKING VOLTAGE | MAXIMUM OVERLOAD VOLTAGE | DIELECTRIC WITHSTANDING VOLTAGE | RESISTANCE RANGE | | JUMPER CRITERIA |
|----------------------|--------|-----------------------------------|-------------------------------|--------------------------------|---------------------------------------|--|--|---|
| RC0075 | 1/50 W | -55°C to 125°C | 10V | 25V | 25V | 5% (E24) I 0Ω≦R≦I MΩ I% (E24/E96) I 0Ω≦R≦I MΩ Jumper<50mΩ | 10Ω≦R<100Ω -200~+600ppm°C 100Ω≦R≦1MΩ ±200ppm°C | Rated Current 0.5A Maximum Current 1.0A |
| RC0100 | 1/32 W | -55°C to 125°C | 15V | 30V | 30V | 5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦10MΩ 0.5% (E24/E96) 33Ω≦R≦470KΩ Jumper<50mΩ | $I\Omega \le R < I0\Omega$ $-200 \sim +600 ppm^{\circ}C$ $I0\Omega \le R < I00\Omega:$ $\pm 300 ppm/^{\circ}C$ $I00\Omega \le R \le I0M\Omega:$ $\pm 200 ppm/^{\circ}C$ $I0M\Omega < R \le 22M\Omega:$ $\pm 250 ppm/^{\circ}C$ | Rated Current 0.5A Maximum Current 1.0A |
| RC0201 | 1/20 W | -55°C to 125°C | 25V | 50V | 50V | 5% (E24) IΩ≦R≦I0MΩ I% (E24/E96) IΩ≦R≦I0MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ | IΩ≦R≦I0Ω -100~+350ppm°C I0Ω <r≦i0mω ±200ppm°C</r≦i0mω | Rated Current 0.5A Maximum Current 1.0A |



<u>5</u>

 Chip Resistor Surface Mount
 RC_L
 SERIES
 0075 to 2512

Table 2

| JUMPER CRITERI <i>A</i> | TEMPERATURE COEFFICIENT | RESISTANCE RANGE | DIELECTRIC WITHSTANDING VOLTAGE | MAXIMUM OVERLOAD VOLTAGE | MAXIMUM WORKING VOLTAGE | OPERATING TEMPERATURE RANGE | POWER | CHARAC- TERISTICS |
|--|--|---|---------------------------------------|--------------------------------|-------------------------------|-----------------------------------|--------|----------------------|
| Rated Current I.0A Maximum Current 2.0A | $\begin{split} & 1\Omega \leqq R \leqq 10\Omega \\ & \pm 200 ppm °C \\ & 10\Omega < R \leqq 10M\Omega \\ & \pm 100 ppm °C \\ & 10M\Omega < R \leqq 22M\Omega \\ & \pm 200 ppm °C \end{split}$ | 5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦10MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ | 100V | 100V | 50V | -55°C to 155°C | 1/16 W | RC0402 |
| | IΩ≦R≦IMΩ ±200ppm°C | 5% (E24) ΙΩ≦R≦ΙΜΩ Ι% (E24/E96) ΙΩ≦R≦ΙΜΩ | 100V | 100V | 50V | -55℃ to 155℃ | I/8W | |
| Rated Current I.0A Maximum Current 2.0A | IΩ≦R≦I0Ω ±200ppm°C I0Ω <r≦i0mω ±100ppm°C I0MΩ<r≦22mω ±200ppm°C</r≦22mω </r≦i0mω | 5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦10MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ | 150V | 150V | 75 V | -55°C to 155°C | 1/10 W | RC0603 |
| | IΩ≦R≦IMΩ ±200ppm°C | 5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ | 150V | 150V | 75V | -55℃ to 155℃ | 1/5 W | |
| Rated Current 2.0A Maximum Current 5.0A | $\begin{split} & 1\Omega \leqq R \leqq 10\Omega \\ & \pm 200 ppm^{\circ}C \\ & 10\Omega < R \leqq 10M\Omega \\ & \pm 100 ppm^{\circ}C \\ & 10M\Omega < R \leqq 22M\Omega \\ & \pm 200 ppm^{\circ}C \\ & 24M\Omega < R \leqq 100M\Omega \\ & \pm 300 ppm^{\circ}C \end{split}$ | 5% (E24) IΩ≦R≦I00MΩ I% (E24/E96) IΩ≦R≦I0MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ I0%, 20% (E24) 24MΩ≦R≦I00MΩ Jumper<50mΩ | 300V | 300V | 150V | -55°C to 155°C | 1/8 W | RC0805 |
| | IΩ≦R≦IMΩ ±200ppm°C | 5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ | 300V | 300V | 150V | -55℃ to 155℃ | 1/4 W | |
| Rated Current 2.0A Maximum Current 10.0A | $\begin{split} & \hspace{-0.1cm} $ | 5% (E24) IΩ≦R≦I00MΩ I% (E24/E96) IΩ≦R≦I0MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ I0%, 20% (E24) 24ΜΩ≦R≦I00MΩ Jumper<50mΩ | 500V | 400V | 200V | -55°C to 155°C | 1/4 W | RC1206 |
| | IΩ≦R≦IMΩ ±200ppm°C | 5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ | 500V | 400V | 200V | -55°C to 155°C | 1/2 W | |



6 10

Chip Resistor Surface Mount

RC_L

SERIES

0075 to 2512

FOOTPRINT AND SOLDERING PROFILES

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

Table 2

| CHARAC- TERISTICS | POWER | OPERATING TEMPERATURE RANGE | MAXIMUM WORKING VOLTAGE | MAXIMUM OVERLOAD VOLTAGE | DIELECTRIC WITHSTANDING VOLTAGE | resistance range | TEMPERATURE COEFFICIENT | JUMPER CRITERIA |
|----------------------|-------|-----------------------------------|-------------------------------|--------------------------------|---------------------------------------|--|---|--|
| RC1210 | 1/2 W | -55°C to 155°C | 200V | 500V | 500V | 5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦10MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ | $\begin{split} & 1\Omega \leqq R \leqq 10\Omega \\ & \pm 200 ppm^{\circ}C \\ & 10\Omega < R \leqq 10M\Omega \\ & \pm 100 ppm^{\circ}C \\ & 10M\Omega < R \leqq 22M\Omega \\ & \pm 200 ppm^{\circ}C \end{split}$ | Rated Current 2.0A Maximum Current 10.0A |
| RC1218 | ΙW | -55°C to 155°C | 200V | 500V | 500V | 5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ | IΩ≦R≦I0Ω ±200ppm°C I0Ω <r≦imω ±I00ppm°C</r≦imω | Rated Current 6.0A Maximum Current 10.0A |
| RC2010 | 3/4 W | -55°C to 155°C | 200V | 500V | 500V | 5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦10MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ | IΩ≦R≦I0Ω ±200ppm°C I0Ω <r≦i0mω ±I00ppm°C I0MΩ<r≦22mω ±200ppm°C</r≦22mω </r≦i0mω | Rated Current 2.0A Maximum Current 10.0A |
| RC2512 | ΙW | -55°C to I55°C | 200V | 500V | 500V | 5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦10MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ | IΩ≦R≦I0Ω ±200ppm°C I0Ω <r≦i0mω ±I00ppm°C I0MΩ<r≦22mω ±200ppm°C</r≦22mω </r≦i0mω | Rated Current 2.0A Maximum Current 10.0A |
| | 2 W | -55°C to 155°C | 200V | 400V | 500V | 5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ | IΩ≦R≦IMΩ ±200ppm°C | |



10

Chip Resistor Surface Mount

RC_L

SERIES

0075 to 2512

PACKING STYLE AND PACKAGING QUANTITY

Table 3 Packing style and packaging quantity

| PACKING STYLE | PAPER TAPING | G REEL (R) | | ESD SAFE REEL (S) (4MM WIDTH, IMM PITCH PLASTIC EMBOSSED) | EMBOSSED TAPING REEL |
|----------------|--------------|-------------|--------------|--|-------------------------|
| REEL DIMENSION | 7" (178 mm) | 10" (254mm) | 13" (330 mm) | 7" (178 mm) | 7" (178 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 |
| 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. 7-1)

RC0075 to RC0201 Range: -55°C to +125°C (Fig. 7-2)

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:

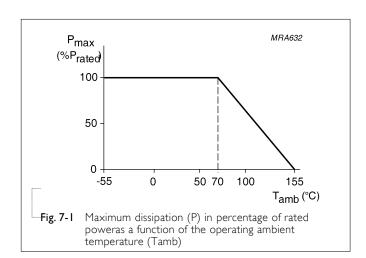
$$V = \sqrt{(PxR)}$$

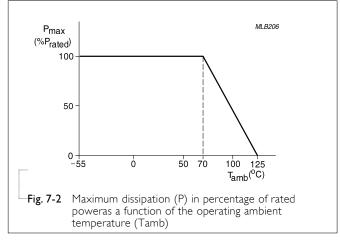
or max. working voltage whichever is less

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

P = Rated power (W)

 $R = Resistance value (\Omega)$





TESTS AND REQUIREMENTS

Table 8 Test condition, procedure and requirements

| TEST | TEST METHOD | PROCEDURE | REQUIREMENTS |
|---------------------------------------|---|---|---|
| Temperature Coefficient of Resistance | MIL-STD-202 Method 304 | At +25/–55°C and +25/+125°C | Refer to table 2 |
| (T.C.R.) | | 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 | |
| Life/ Endurance | MIL-STD-202 Method 108A IEC 60115-1 4.25.1 | At 70±2°C for 1,000 hours; RCWV applied for 1.5 hours on and 0.5 hour off, still air required | $0075: \pm (5\% + 100 \text{m}\Omega)$ $< 100 \text{m}\Omega \text{ for jumper}$ $01005: \pm (3\% + 50 \text{m}\Omega)$ $< 100 \text{m}\Omega \text{f or jumper}$ $Others:$ $\pm (1\% + 50 \text{m}\Omega) \text{ for B/D/F tol}$ $\pm (3\% + 50 \text{m}\Omega) \text{ for J tol}$ $< 100 \text{mR for jumper}$ |
| High Temperature Exposure | MIL-STD-202 Method 108A IEC 60068-2-2 | I,000 hours at maximum operating temperature depending on specification, unpowered. | 0075 : $\pm (5\% + 100 \text{m}\Omega)$ $< 100 \text{m}\Omega$ for jumper 01005 : $\pm (1\% + 50 \text{m}\Omega)$ $< 50 \text{m}\Omega$ f or jumper Others: $\pm (1\% + 50 \text{m}\Omega)$ for B/D/F tol $\pm (2\% + 50 \text{m}\Omega)$ for J tol < 50 mR for jumper |
| Moisture Resistance | MIL-STD-202 Method I 06G | Each temperature / humidity cycle is defined at 8 hours (method 106F), 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 | $0075: \pm (2\% + 100 \text{m}\Omega)$ $< 100 \text{m}\Omega \text{ for jumper}$ $01005: \pm (2\% + 50 \text{m}\Omega)$ $< 100 \text{m}\Omega \text{ for jumper}$ $Others:$ $\pm (0.5\% + 50 \text{m}\Omega) \text{ for B/ D/F tol}$ $\pm (2\% + 50 \text{m}\Omega) \text{ for J tol}$ $< 100 \text{mR for jumper}$ |
| Humidity | IEC 60115-1 4.24.2 | Steady state for 1000 hours at 40°C / 95% R.H. RCWV applied for 1.5 hours on and 0.5 hour off | $0075: \pm (5\% + 100 \text{m}\Omega)$ no visible damage $01005: \pm (3\% + 50 \text{m}\Omega)$ $< 100 \text{m}\Omega \text{f or jumper}$ Others: $\pm (1\% + 50 \text{m}\Omega) \text{ for B/D/F tol}$ $\pm (2\% + 50 \text{m}\Omega) \text{ for J tol}$ $< 100 \text{mR for jumper}$ |



| Chin | Resistor | Surface | Mount |
|--------|-----------|----------|-------|
| VIIIII | IIIOJOLUI | vui iavv | mount |

RC_L

SERIES

0075 to 2512

| Thermal Shock Short Time Overload | MIL-STD-202 Method 107G IEC 60115-1 4.13 | -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 2.5 times RCWV or maximum overload voltage which is less for 5 seconds at room temperature | $0075/01005: \pm (1\% + 50 \text{m}\Omega)$ $< 50 \text{m}\Omega \text{f or jumper}$ Others: $\pm (0.5\% + 50 \text{m}\Omega) \text{ for B/D/F tol}$ $\pm (1\% + 50 \text{m}\Omega) \text{ for J tol}$ $< 50 \text{mR for jumper}$ $0075/01005: \pm (2\% + 50 \text{m}\Omega)$ $< 50 \text{m}\Omega \text{f or jumper}$ Others: $\pm (1\% + 50 \text{m}\Omega) \text{ for B/D/F tol}$ $\pm (2\% + 50 \text{m}\Omega) \text{ for J tol}$ |
|--|---|--|---|
| Board Flex/ Bending | IEC 60115-1 4.33 | Device mounted or as described only I board bending required bending time: 60±5 seconds 0075/0100/0201/0402:5mm; 0603/0805:3mm; I 206 and above:2mm | <50mR for jumper No visible damage $0075/01005: \pm (1\% +50m\Omega)$ < $50m\Omega$ f or jumper Others: $\pm (1\% +50m\Omega)$ for B/D/F/J tol <50mR for jumper No visible damage |
| Solderability - Wetting | J-STD-002 test B | Electrical Test not required Magnification 50X SMD conditions: Ist step: method B, aging 4 hours at 155°C dry heat 2nd step: leadfree solder bath at 245±3°C Dipping time: 3±0.5 seconds | W ell 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 210F IEC 60115-1 4.18 | Condition B, no pre-heat of samples Leadfree solder, 260°C ±5°C, 10 ±1 seconds immersion time Procedure 2 for SMD: devices fluxed and cleaned with isopropanol | $0075: \pm (3\% + 50 \text{m}\Omega)$ $< 50 \text{m}\Omega \text{ for jumper}$ $01005: \pm (1\% + 50 \text{m}\Omega)$ $< 50 \text{m}\Omega \text{f or jumper}$ Others: $\pm (0.5\% + 50 \text{m}\Omega) \text{ for B/D/F tol.}$ $\pm (1\% + 50 \text{m}\Omega) \text{ for J tol.}$ $< 50 \text{mR for jumper}$ No visible damage |

REVISION HISTORY

| REVISION | DATE | CHANGE NOTIFICATION | DESCRIPTION |
|-----------|---------------|---------------------|---|
| 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 I2 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 I | Jan. 21, 2015 | - | - ESD Safe Reel update |
| Version 0 | Dec. 15, 2014 | - | - First issue of this specification |

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Other Similar products are found below:

CR-05FL7--150R CR-05FL7--19K6 CR-05FL7--243R CR-05FL7--40K2 CR-05FL7--698K CR-12FP4--324R CR-12JP4--680R

M55342K06B1E78RS3 M55342K06B6E19RWL M55342K06B6E81RS3 M55342M05B200DRWB M55342M06B4K70MS3 MC0603-511
JTW 742C083750JTR MCR01MZPF1202 MCR01MZPF1601 MCR01MZPF1800 MCR01MZPF6201 MCR01MZPF9102 MCR01MZPJ113

MCR01MZPJ121 MCR01MZPJ125 MCR01MZPJ751 MCR03EZHJ103 MCR03EZPFX2004 MCR03EZPJ270 MCR03EZPJ821

MCR10EZPF1102 MCR18EZPJ330 RC0603F1473CS RC0603F150CS RC1005F1152CS RC1005F1182CS RC1005F1372CS

RC1005F183CS RC1005F1911CS RC1005F1912CS RC1005F203CS RC1005F2052CS RC1005F241CS RC1005F2431CS

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RC1005F6041CS RC1005J106CS