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DATA SHEET GENERAL PURPOSE CHIP RESISTORS

1101

1921

2R20

 $\begin{array}{c} RC_L \; series \\ \pm 0.1\%, \; \pm 0.5\%, \; \pm 1\%, \; \pm 5\% \\ \mbox{Sizes } 0075/0100/0201/0402/0603/0805/ \\ 1206/1210/1218/2010/2512 \end{array}$

RoHS compliant & Halogen free



YAGEO Phícomp

Product specification – June 07, 2017 V.7

Chip Resistor Surface Mount

SERIES 0075 to 2512

<u>SCOPE</u>

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

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_L

RC XXXX X X X XX XXXX L

(2) (3) (4) (5) (6) (7)

(I) SIZE

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

(2) TOLERANCE

(1)

 $B = \pm 0.1\%$

 $D = \pm 0.5\%$

```
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 x standard power

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

(6) RESISTANCE VALUE

There are $2 \sim 4$ digits indicated the resistance value.

Letter R/K/M is decimal point

Example:

 $97R6 = 97.6\Omega$

9K76 = 9760Ω

 $IM = I,000,000\Omega$

(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 Ω with

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

NOTE

- 1. 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.

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<u>MARKING</u>



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

CONSTRUCTION

Value = $10 \text{ K}\Omega$

Fig. 5

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

DIMENSION

Table I

L (mm)	W (mm)	H (mm)	l⊤ (mm)	l ₂ (mm)
0.30±0.01	0.15±0.01	0.10±0.01	0.08±0.03	0.08±0.03
0.40±0.02	0.20±0.02	0.13±0.02	0.10±0.03	0.10±0.03
0.60±0.03	0.30±0.03	0.23±0.03	0.10±0.05	0.15±0.05
1.00±0.05	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10
1.60±0.10	0.80±0.10	0.45±0.10	0.25±0.15	0.25±0.15
2.00±0.10	1.25±0.10	0.50±0.10	0.35±0.20	0.35±0.20
3.10±0.10	1.60±0.10	0.55±0.10	0.45±0.20	0.40±0.20
3.10±0.10	2.60±0.15	0.55±0.10	0.45±0.15	0.50±0.20
3.10±0.10	4.60±0.10	0.55±0.10	0.45±0.20	0.40±0.20
5.00±0.10	2.50±0.15	0.55±0.10	0.45±0.15	0.50±0.20
6.35±0.10	3.10±0.15	0.55±0.10	0.60±0.20	0.50±0.20
	L (mm) 0.30±0.01 0.40±0.02 0.60±0.03 1.00±0.05 1.60±0.10 2.00±0.10 3.10±0.10 3.10±0.10 3.10±0.10 5.00±0.10 6.35±0.10	L (mm) WV (mm) 0.30±0.01 0.15±0.01 0.40±0.02 0.20±0.02 0.60±0.03 0.30±0.03 1.00±0.05 0.50±0.05 1.60±0.10 0.80±0.10 2.00±0.10 1.25±0.10 3.10±0.10 2.60±0.15 3.10±0.10 4.60±0.10 5.00±0.10 2.50±0.15 6.35±0.10 3.10±0.15	L (mm)W (mm)H (mm)0.30±0.010.15±0.010.10±0.010.40±0.020.20±0.020.13±0.020.60±0.030.30±0.030.23±0.031.00±0.050.50±0.050.35±0.051.60±0.100.80±0.100.45±0.102.00±0.101.25±0.100.50±0.103.10±0.102.60±0.150.55±0.103.10±0.104.60±0.100.55±0.105.00±0.103.10±0.150.55±0.10	L (mm)W (mm)H (mm)I1 (mm)0.30±0.010.15±0.010.10±0.010.08±0.030.40±0.020.20±0.020.13±0.020.10±0.030.60±0.030.30±0.030.23±0.030.10±0.051.00±0.050.50±0.050.35±0.050.20±0.101.60±0.100.80±0.100.45±0.100.25±0.152.00±0.101.25±0.100.50±0.100.35±0.203.10±0.101.60±0.100.55±0.100.45±0.203.10±0.102.60±0.150.55±0.100.45±0.153.10±0.102.50±0.150.55±0.100.45±0.156.35±0.103.10±0.150.55±0.100.45±0.15

ELECTRICAL CHARACTERISTICS

Table 2								
CHARAC- TERISTICS	POWER	OPERATING TEMPERATURE RANGE	MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	DIELECTRIC WITHSTANDING VOLTAGE	RESISTANCE RANGE	TEMPERATURE COEFFICIENT	JUMPER CRITERIA
RC0075	1/50 W	-55℃ to 125℃	10V	25V	25V	5% (E24) I 0Ω≦R≦I MΩ I% (E24/E96) I 0Ω≦R≦I MΩ Jumper<50mΩ	I0Ω≦R <i00ω -200~+600ppm°C I00Ω≦R≦IMΩ ±200ppm°C</i00ω 	Rated Current 0.5A Maximum Current 1.0A
RC0100	1/32 W	-55°C to 125°C	157	30V	30V	5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦I0MΩ 0.5% (E24/E96) 33Ω≦R≦470KΩ Jumper<50mΩ	$I\Omega \le R < 10\Omega$ -200~+600ppm°C $I0\Omega \le R < 100\Omega$: $\pm 300ppm/°C$ $I00\Omega \le R \le 10M\Omega$: $\pm 200ppm/°C$ $I0M\Omega < R \le 22M\Omega$: $\pm 250ppm/°C$	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

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CHARAC- TERISTICS	POWER	OPERATING TEMPERATURE RANGE	MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	DIELECTRIC WITHSTANDING VOLTAGE	RESISTANCE RANGE	TEMPERATURE COEFFICIENT	JUMPER CRITERIA
RC0402	1/16 W	-55℃ to 155℃	50V	100V	100V	5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦I0MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ	IΩ≦R≦10Ω ±200ppm°C I0Ω <r≦10mω ±100ppm°C I0MΩ<r≦22mω ±200ppm°C</r≦22mω </r≦10mω 	Rated Current I.0A Maximum Current 2.0A
	I/8W	-55℃ to 155℃	50V	100∨	100V	5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ	IΩ≦R≦IMΩ ±200ppm°C	
RC0603	1/10 W	-55℃ to 155℃	75V	150V	150V	5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦I0MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ	IΩ≦R≦I0Ω ±200ppm°C I0Ω <r≦i0mω ±100ppm°C I0MΩ<r≦22mω ±200ppm°C</r≦22mω </r≦i0mω 	Rated Current 1.0A Maximum Current 2.0A
	I/5 W	-55℃ to 155℃	75V	150∨	150V	5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ	IΩ≦R≦IMΩ ±200ppm°C	
RC0805	1/8 W	-55°C to 155°C	150V	300V	300V	5% (E24) IΩ≦R≦100MΩ I% (E24/E96) IΩ≦R≦10MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦1MΩ I0%, 20% (E24) 24MΩ≦R≦100MΩ Jumper<50mΩ	IΩ≦R≦10Ω ±200ppm°C 10Ω <r≦10mω ±100ppm°C 10MΩ<r≦22mω ±200ppm°C 24MΩ<r≦100mω ±300ppm°C</r≦100mω </r≦22mω </r≦10mω 	Rated Current 2.0A Maximum Current 5.0A
	1/4 W	-55℃ to 155℃	150V	300V	300V	5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ	IΩ≦R≦IMΩ ±200ppm°C	
RC1206	1/4 W	-55℃ to 155℃	200∨	400∨	500V	5% (E24) ΙΩ≦R≦100MΩ Ι% (E24/E96) ΙΩ≦R≦10MΩ 0.1%, 0.5% (E24/E96) Ι0Ω≦R≦1MΩ Ι0%, 20% (E24) 24MΩ≦R≦100MΩ Jumper<50mΩ	IΩ≦R≦10Ω ±200ppm°C I0Ω <r≦10mω ±100ppm°C I0MΩ<r≦22mω ±200ppm°C 24MΩ≦R≦100MΩ ±300ppm°C</r≦22mω </r≦10mω 	Rated Current 2.0A Maximum Current 10.0A
	1/2 W	-55℃ to 155℃	200V	400V	500V	5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ	IΩ≦R≦IMΩ ±200ppm°C	

Chip Resistor Surface Mount

FOOTPRINT AND SOLDERING PROFILES

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

RC_L

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℃ to 155℃	200V	500V	500V	5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦I0MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ	IΩ≦R≦10Ω ±200ppm°C I0Ω <r≦10mω ±100ppm°C I0MΩ<r≦22mω ±200ppm°C</r≦22mω </r≦10mω 	Rated Current 2.0A Maximum Current 10.0A
RC1218	IW	-55°C to 155°C	200V	500V	500∨	5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ	IΩ≦R≦10Ω ±200ppm°C I0Ω <r≦imω ±100ppm°C</r≦imω 	Rated Current 6.0A Maximum Current 10.0A
RC2010	3/4 W	-55℃ to 155℃	200∨	500V	500V	5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦10MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦1MΩ Jumper<50mΩ	IΩ≦R≦I0Ω ±200ppm°C I0Ω <r≦i0mω ±100ppm°C I0MΩ<r≦22mω ±200ppm°C</r≦22mω </r≦i0mω 	Rated Current 2.0A Maximum Current 10.0A
RC2512	IW	-55℃ to 155℃	200V	500V	500∨	5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦I0MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ	IΩ≦R≦10Ω ±200ppm°C I0Ω <r≦10mω ±100ppm°C I0MΩ<r≦22mω ±200ppm°C</r≦22mω </r≦10mω 	Rated Current 2.0A Maximum Current 10.0A
	2 W	-55℃ to 155℃	200V	400∨	500V	5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ	IΩ≦R≦IMΩ ±200ppm℃	

Chip Resistor Surface Mount

SERIES 0075 to 2512

PACKING STYLE AND PACKAGING QUANTITY

Table 3 Packing style and packaging quantity

PACKING STYLE	PAPER TAPINO	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

RC_L

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:

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

or max. working voltage whichever is less Where

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

P = Rated power (W)

 $R = Resistance value (\Omega)$





Chip Resistor Surface MountRC_LSERIES0075 to 2512

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:		
		$T.C.R = \frac{R_2 - R_I}{R_I(t_2 - t_I)} \times 10^6 \text{ (ppm/°C)}$		
		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	$\begin{array}{l} 0075: \pm (5\% + 100 \text{m}\Omega) \\ < 100 \text{m}\Omega \text{ for jumper} \\ 01005: \pm (3\% + 50 \text{m}\Omega) \\ < 100 \text{m}\Omega \text{f or jumper} \\ \text{Others:} \\ \pm (1\% + 50 \text{m}\Omega) \text{ for B/D/F tol} \\ \pm (3\% + 50 \text{m}\Omega) \text{ for J tol} \\ < 100 \text{mR for jumper} \end{array}$	
High Temperature Exposure	MIL-STD-202 Method 108A IEC 60068-2-2	I,000 hours at maximum operating temperature depending on specification, unpowered.	$\begin{array}{c} 0075: \pm (5\% + 100 \text{m}\Omega) \\ < 100 \text{m}\Omega \text{ for jumper} \\ 01005: \pm (1\% + 50 \text{m}\Omega) \\ < 50 \text{m}\Omega \text{f or jumper} \\ \text{Others:} \\ \pm (1\% + 50 \text{m}\Omega) \text{ for B/D/F tol} \\ \pm (2\% + 50 \text{m}\Omega) \text{ for J tol} \\ < 50 \text{mR for jumper} \end{array}$	
Moisture Resistance	MIL-STD-202 Method 106G	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	$ \frac{<50 \text{mR for jumper}}{0075: \pm (2\% + 100 \text{m}\Omega)} \\ \frac{<100 \text{m}\Omega \text{ for jumper}}{01005: \pm (2\% + 50 \text{m}\Omega)} \\ \frac{<100 \text{m}\Omega \text{f or jumper}}{000 \text{ for jumper}} \\ \frac{(0.5\% + 50 \text{m}\Omega) \text{ for B/ D/F tol}}{\pm (2\% + 50 \text{m}\Omega) \text{ for J tol}} \\ \frac{<100 \text{mR for jumper}}{000 \text{ for J tol}} $	
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	$\begin{array}{l} 0075:\pm(5\%+100m\Omega)\\ \text{no visible damage}\\ 01005:\pm(3\%+50m\Omega)\\ <100m\Omega f \text{ or jumper}\\ Others:\\ \pm(1\%+50m\Omega) \text{ for B/D/F tol}\\ \pm(2\%+50m\Omega) \text{ for J tol}\\ <100mR \text{ for jumper} \end{array}$	

Chip Resistor Surface Mount RC_L SEF

SERIES 0075 to 2512

Thermal Shock Short Time Overload	MIL-STD-202 Method 107G	-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	$\begin{array}{r} 0075/01005: \pm (1\% + 50m\Omega) \\ < 50m\Omega f or jumper \\ Others: \\ \pm (0.5\% + 50m\Omega) for B/D/F tol \\ \pm (1\% + 50m\Omega) for J tol \\ < 50mR for jumper \\ 0075/01005: \pm (2\% + 50m\Omega) \\ < 50m\Omega f or jumper \\ Others: \\ \pm (1\% + 50m\Omega) for B/D/F tol \\ \end{array}$
			±(2%+50mΩ) for J tol <50mR for jumper No visible damage
Board Flex/ Bending	IEC 60115-1 4.33	Device mounted or as described only 1 board bending required bending time: 60±5 seconds 0075/0100/0201/0402:5mm; 0603/0805:3mm; 1206 and above:2mm	0075/01005: ±(1% +50mΩ) < 50mΩf or jumper Others: ±(1%+50mΩ) 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, $260^{\circ}C \pm 5^{\circ}C$, 10 ± 1 seconds immersion time Procedure 2 for SMD: devices fluxed and cleaned with isopropanol	$\begin{array}{l} 0075: \pm (3\% + 50 \text{m}\Omega) \\ < 50 \text{m}\Omega \text{ for jumper} \\ 01005: \pm (1\% + 50 \text{m}\Omega) \\ < 50 \text{m}\Omega \text{f or jumper} \\ \end{array} \\ \begin{array}{l} \text{Others:} \\ \pm (0.5\% + 50 \text{m}\Omega) \text{ for B/D/F tol.} \\ \pm (1\% + 50 \text{m}\Omega) \text{ for J tol.} \\ < 50 \text{mR for jumper} \\ \end{array} \\ \begin{array}{l} \text{No visible damage} \end{array}$

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<u>REVISION HISTORY</u>

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
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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