

DATA SHEET

GENERAL PURPOSE CHIP RESISTORS

 $\begin{array}{c} RC_L \; series \\ \pm 0.1\%, \; \pm 0.5\%, \; \pm 1\%, \; \pm 5\% \\ \mbox{Sizes } 0075/0\, 100/020\, I/0402/0603/0805/ \\ 1206/12\, 10/12\, 18/20\, I0/25\, 12 \end{array}$

RoHS compliant & Halogen free



YAGEO Phícomp Product specification – December 12, 2018 V.10



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)
- 3W = 13 inch dia. Reel & 2 × standard power

(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

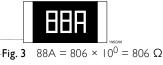
 $\pm 5\%$ tolerance, supplied in 7-inch tape reel of 10,000 units per reel is: RC0402JR-07100KL.

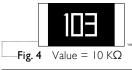
NOTE

- 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.

YAGEO Phicomp					Product specification 3
Chip Resistor	Surface Mount	RC_L	SERIES	0075 to 2512	10
<u>Marking</u>					
RC0075 / RC0100 / RC0201 / RC	0402				
Fig. I	No Marking				
RC0603					
Fig. 2 240 = 24 × 10 ⁰ = 24	1%, 0.5%,E24	exception va	alues 10/1	1/13/15/20/75 of	E24 series

10/11/13/15/20/75 of E24 series





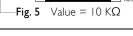
5%, E24 series : 3 digits First two digits for significant figure and 3rd digit for number of zeros

1%, 0.5%, E96 refer to EIA-96 marking method, including values

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



5%, E24 series : 3 digits

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

Fig. 6 Value = $10 \text{ K}\Omega$ RC1218

E-24 series: 3 digits, ±5%
First two digits for significant figure and 3rd digit for number of zerosFig. 7 Value = 10 KΩBoth 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".

Chip Resistor Surface Mount

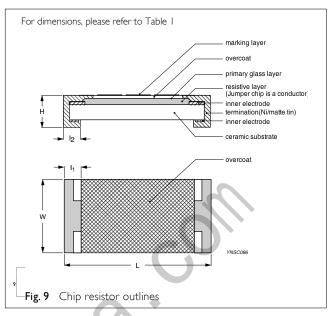
SERIES 0075 to 2512

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

RC_L



DIMENSION

Table I

- . .

TYPE	L (mm)	W (mm)	H (mm)	I⊨ (mm)	l ₂ (mm)
RC0075	0.30±0.015	0.15±0.015	0.13±0.02	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
JUMPER CRITERIA		RESISTANCE RANGE	DIELECTRIC WITHSTANDING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	MAXIMUM WORKING VOLTAGE	OPERATING TEMPERATURE RANGE	POWER	CHARAC- TERISTICS
Rated Current 0.5A Maximum Current 1.0A	I0Ω≦R <i00ω -200~+600ppm°C I00Ω≦R≦IMΩ ±200ppm°C</i00ω 	5% (E24) I0Ω≦R≦IMΩ I% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ	25V	25V	10V	-55℃ to 125℃	1/50 W	RC0075
Rated Current 0.5A Maximum Current 1.0A	IΩ≦R<10Ω -200~+600ppm°C I0Ω≤ R < 100Ω: ±300ppm/°C I00Ω≤ R ≤ 10MΩ: ±200ppm/°C I0MΩ< R ≤ 22MΩ: ±250ppm/°C	5% (E24) ΙΩ≦R≦22ΜΩ Ι% (E24/E96) ΙΩ≦R≦10ΜΩ 0.5% (E24/E96) 33Ω≦R≦470KΩ Jumper<50mΩ	30V	30V	15V	-55℃ to 125℃	1/32 W	RC0100

YAGEO Phícomp				Product specification 5
Chip Resistor Surface Mount	RC_L	SERIES	0075 to 2512	10

Table 2

CHARAC- TERISTICS	POWER	OPERATING TEMPERATURE RANGE	MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	DIELECTRIC WITHSTANDING VOLTAGE	RESISTANCE RANGE	TEMPERATURE COEFFICIENT	JUMPER CRITERIA
RC0201	1/20 W	-55℃ to 125℃	25V	50V	50V	5% (E24) IΩ≦R≦I0MΩ I% (E24/E96) IΩ≦R≦I0MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ	IΩ≦R≦I0Ω -100~+350ppm°C I0Ω <r≦10mω ±200ppm°C</r≦10mω 	Rated Current 0.5A Maximum Current 1.0A
						Jumper<50mΩ		
RC0402	1/16 W	-55℃ to 155℃	50V	1007	100V	5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦10MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ	IΩ≦R≦10Ω ±200ppm°C 10Ω <r≦10mω ±100ppm°C 10MΩ<r≦22mω ±200ppm°C</r≦22mω </r≦10mω 	Rated Current 1.0A Maximum Current 2.0A
	I/8W	-55°C to 155°C	50V	1007	100V	Jumper<50mΩ 5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ	1Ω≦R≦IMΩ ±200ppm℃	
RC0603	1/10 W	-55°C to 155°C	75V	1504	1507	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 I.0A Maximum Current 2.0A
	I/5 W	-55°C to 155°C	75V	150V	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	1504	300∨	300V	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	IΩ≦R≦I0Ω ±200ppm°C I0Ω <r≦i0mω ±100ppm°C I0MΩ<r≦22mω ±200ppm°C 24MΩ<r≦i00mω ±300ppm°C</r≦i00mω </r≦22mω </r≦i0mω 	Rated Current 2.0A Maximum Current 5.0A
	1/4 W	-55°C to 155°C	150V	300V	300V	5% (E24) I Ω≦R≦I ΜΩ I % (E24/E96) I Ω≦R≦I ΜΩ	IΩ≦R≦IMΩ ±200ppm℃	

Chip Resistor Surface Mount RC_L

FOOTPRINT AND SOLDERING PROFILES

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

JUMPEF CRITERIA	TEMPERATURE COEFFICIENT	RESISTANCE RANGE	DIELECTRIC WITHSTANDING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	MAXIMUM WORKING VOLTAGE	OPERATING TEMPERATURE RANGE	POWER	CHARAC- TERISTICS
Rated Current 2.0A Maximum Current 10.0A	IΩ≦R≦I0Ω ±200ppm°C I0Ω <r≦i0mω ±100ppm°C I0MΩ<r≦22mω ±200ppm°C 24MΩ≦R≦I00MΩ ±300ppm°C</r≦22mω </r≦i0mω 	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	500V	400∨	200V	-55℃ to 155℃	1/4 W	RC1206
	IΩ≦R≦IMΩ ±200ppm°C	5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ	500V	400V	200V	-55℃ to 155℃	1/2 W	
Rated Current 2.0A Maximum Current 10.0A	ΙΩ≦R≦Ι0Ω ±200ppm°C Ι0Ω <r≦ι0μω ±100ppm°C Ι0MΩ<r≦22mω ±200ppm°C</r≦22mω </r≦ι0μω 	5% (E24) IΩ≦R≦22MΩ I% (E24/E96) IΩ≦R≦10MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ	500V	500V	200V	-55°C to 155°C	1/2 W	RC1210
Rated Current 6.0A Maximum Current 10.0A	ΙΩ≦R≦Ι0Ω ±200ppm°C Ι0Ω <r≦ιμω ±Ι00ppm°C</r≦ιμω 	5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ	500∨	500V	200V	-55°C to 155°C	IW	RC1218
Rated Current 2.0A Maximum Current 10.0A	IΩ≦R≦I0Ω ±200ppm°C I0Ω <r≦i0mω ±I00ppm°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	500∨	500V	2007	-55°C to 155°C	3/4 W	RC2010
Rated Current 2.0A Maximum Current 10.0A	IΩ≦R≦I0Ω ±200ppm°C I0Ω <r≦i0mω ±I00ppm°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	500V	500V	2007	-55℃ to 155℃	I W	RC2512
	IΩ≦R≦IMΩ ±200ppm°C	5% (E24) IΩ≦R≦IMΩ I% (E24/E96) IΩ≦R≦IMΩ	500V	400V	200V	-55℃ to 155℃	2 W	

Chip Resistor Surface Mount

SERIES 0075 to 2512

Product specification 7

10

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		J
RC1210	5000	10000	20000		
RC1218					4000
RC2010					4000
RC2512				60	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. 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:

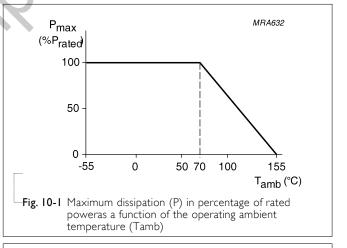
$$V = \sqrt{(P \times R)}$$

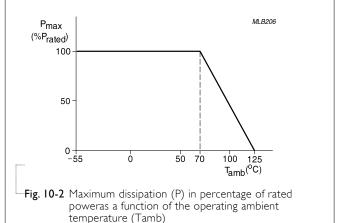
or max. working voltage whichever is less Where

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

P = Rated power (W)

 $R = Resistance value (\Omega)$





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.)			
		$T.C.R = \frac{R_2 - R_I}{R_I(t_2 - t_I)} \times 10^6 \text{ (ppm/°C)}$	~
		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	0075: ± (5%+100mΩ) <100mΩ for jumper 01005: ±(3% +50mΩ) <100mΩf or jumper
			Others: ±(1%+50mΩ) for B/D/F tol ±(3%+50mΩ) for J tol <100mR 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: ± (5%+100mΩ) <100mΩ for jumper 01005: ±(1% +50mΩ) < 50mΩf or jumper
			Others:
			\pm (1%+50m Ω) for B/D/F tol
	· · · ·		$\pm(2\%+50\mathrm{m}\Omega)$ for J tol
M			<50mR for jumper
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	0075: ± (2%+100mΩ) <100mΩ for jumper 01005: ±(2% +50mΩ) < 100mΩf or jumper
		7a & 7b, unpowered	Others:
		Parts mounted on test-boards, without	$\pm(0.5\%+50m\Omega)$ for B/ D/F tol
		condensation on parts	±(2%+50mΩ) for J tol <100mR 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: ± (5%+100mΩ) no visible damage 01005: ±(3% +50mΩ) < 100mΩf or jumper
			Others:
			\pm (1%+50m Ω) for B/D/F tol
			$\pm (2\% + 50 \text{m}\Omega)$ for J tol
			<100mR for jumper

Chip Resistor Surface Mount RC_L SER

SERIES 0075 to 2512

Thermal Shock	MIL-STD-202 Method 107G	-55/+125°C Note Number of cycles required is 300. Devices mounted Maximum transfer time is 20 seconds.	0075/01005: ±(1% +50mΩ) < 50mΩf or jumper Others: ±(0.5%+50mΩ) for B/D/F tol
		Dwell time is 15 minutes. Air - Air	\pm (1%+50m Ω) for J tol < 50mR for jumper
Short Time Overload	IEC 60115-1 4.13	2.5 times RCWV or maximum overload voltage which is less for 5 seconds at room temperature	0075/01005: ±(2% +50mΩ) < 50mΩf or jumper Others: ±(1%+50mΩ) for B/D/F tol ±(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 I 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°C ±5°C, 10 ±1 seconds immersion time Procedure 2 for SMD: devices fluxed and cleaned with isopropanol	$\begin{array}{c} 0075: \pm (3\% + 50 \text{m}\Omega) \\ < 50 \text{m}\Omega \text{ for jumper} \\ 01005: \pm (1\% + 50 \text{m}\Omega) \\ < 50 \text{m}\Omega \text{f or jumper} \\ \end{array}$ $\begin{array}{c} \text{Others:} \\ \pm (0.5\% + 50 \text{m}\Omega) \text{ for B/D/F tol.} \\ \pm (1\% + 50 \text{m}\Omega) \text{ for J tol.} \\ < 50 \text{mR for jumper} \\ \end{array}$ $\begin{array}{c} \text{No visible damage} \end{array}$

YAGEO Phicomp				Product specification 10
Chip Resistor Surface Mount	RC_L	SERIES	0075 to 2512	10

<u>REVISION HISTORY</u>

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
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 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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Mouser Electronics

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Yageo:

RC0402FR-073R4L RC0402FR-073R01L RC0402FR-073R09L RC0402FR-073R24L RC0402FR-073R32L
RC0402FR-0732K4L RC0402FR-073R16L RC0402FR-073M9L RC0402FR-073M83L RC0402FR-073M74L
RC0402FR-073R48L RC0402FR-073M6L RC0402FR-073R9L RC0402FR-073M57L RC0402FR-073M48L
RC0402FR-073M4L RC0402FR-073M32L RC0402FR-073M65L RC0402FR-073M3L RC0402FR-0731R6L
RC0402FR-07316KL RC0402FR-07300RL RC0402FR-07300KL RC0402FR-0730R9L RC0402FR-07309KL
RC0402FR-073R74L RC0402FR-0730K9L RC0402FR-073R57L RC0402FR-073R92L RC0402FR-0728K7L
RC0402FR-073R83L RC0402FR-073R65L RC0402FR-07309RL RC0402FR-07316RL RC0402FR-0730RL
RC0402FR-0727RL RC0402FR-0728R7L RC0402FR-07287KL RC0402FR-07280KL RC0402FR-0728RL
RC0402FR-0728KL RC0402FR-07274RL RC0402FR-07274KL RC0402FR-0729R4L RC0402FR-0727K4L
RC0402FR-0727KL RC0402FR-0732R4L RC0402FR-074M99L RC0402FR-0726R1L RC0402FR-0726R7L
RC0402FR-07267RL RC0402FR-07267KL RC0402FR-07261KL RC0402FR-07270KL RC0402FR-073M16L
RC0402FR-073M09L RC0402FR-073M01L RC0402FR-073ML RC0402FR-073K92L RC0402FR-073K74L
RC0402FR-073K65L RC0402FR-073K57L RC0402FR-073M24L RC0402FR-073K4L RC0402FR-073K24L
RC0402FR-073K16L RC0402FR-073K09L RC0402FR-073K01L RC0402FR-073KL RC0402FR-07294RL
RC0402FR-074M87L RC0402FR-074M7L RC0402FR-074M64L RC0402FR-074M53L RC0402FR-074M42L
RC0402FR-074M32L RC0402FR-074M3L RC0402FR-074M22L RC0402FR-074M12L RC0402FR-074M75L
RC0402FR-074R22L RC0402FR-074K42L RC0402FR-074K32L RC0402FR-074K22L RC0402FR-074M02L
RC0402FR-0740K2L RC0402FR-07412RL RC0402FR-07412KL RC0402FR-07160RL RC0402FR-0726K7L
RC0402FR-0741R2L RC0402FR-07402RL RC0402FR-074R02L RC0402FR-0740R2L RC0402FR-074R12L
RC0402FR-074R99L RC0402FR-074R87L RC0402FR-074R75L RC0402FR-074R7L RC0402FR-074R64L