

# **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 Phicomp



# 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.



SERIES

0075 to 2512

# **MARKING**

# RC0075 / RC0100 / RC0201 / RC0402



No Marking

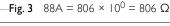
## RC0603

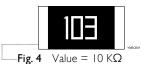


1%, 0.5%,E24 exception values 10/11/13/15/20/75 of E24 series



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





5%, E24 series: 3 digits

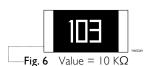
First two digits for significant figure and 3rd digit for number of zeros

# RC0805 / RC1206 / RC1210 / RC2010 / RC2512



1%, 0.5%, E24/E96 series : 4 digits

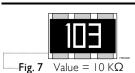
First three digits for significant figure and 4th digit for number of zeros



5%, E24 series: 3 digits

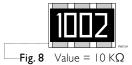
First two digits for significant figure and 3rd digit for number of zeros

# 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

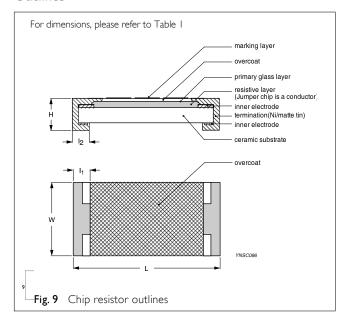
For further marking information, please see special data sheet "Chip resistors marking".

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**



# **DIMENSION**

Table I

TYPE	L (mm)	W (mm)	H (mm)	I <sub>I</sub> (mm)	I <sub>2</sub> (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

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°C to 125°C	10V	25V	25V	5% (E24) 10Ω≦R≦1MΩ 1% (E24/E96) 10Ω≦R≦1MΩ 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	IΩ≦R <i0ω -200~+600ppm°c="" 22mω:="" <="" i00ω:="" i00ω≤="" i0mω:="" i0mω<="" i0ω≤="" r="" td="" °c="" °c<="" ±200ppm="" ±250ppm="" ±300ppm="" ≤=""><td>Rated Current 0.5A Maximum Current I.0A</td></i0ω>	Rated Current 0.5A Maximum Current I.0A



5 Product specification

Chip Resistor Surface Mount SERIES 0075 to 2512 RC\_L

Table 2	2
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JUMPER CRITERIA	TEMPERATURE COEFFICIENT	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	IΩ≦R≦I0Ω -I00~+350ppm°C I0Ω <r≦i0mω ±200ppm°C</r≦i0mω 	5% (E24) IΩ≦R≦I0MΩ I% (E24/E96) IΩ≦R≦I0MΩ 0.1%, 0.5% (E24/E96) I0Ω≦R≦IMΩ Jumper<50mΩ	50V	50V	25V	-55°C to 125°C	1/20 W	RC0201
Rated Current 1.0A Maximum Current 2.0A	$\begin{split} & \hspace{-0.1cm} $	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	100∨	50V	-55°C to 155°C	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	<b>75</b> 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	150∨	75V	-55°C to 155°C	1/5 W	
Rated Current 2.0A Maximum Current 5.0A	$\begin{split} & \hspace{0.1in} 0.1i$	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°C to 155°C	1/4 W	

# FOOTPRINT AND SOLDERING PROFILES

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

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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
RC1206	1/4 W	-55°C to 155°C	200V	400∨	500V	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 ±I00ppm°C I0MΩ<r≦22mω ±200ppm°C 24MΩ≦R≦I00MΩ ±300ppm°C</r≦22mω </r≦i0mω 	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	
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	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
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 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
	2 W	-55°C to 155°C	200V	400V	500V	5% (E24) ΙΩ≦R≦ΙΜΩ Ι% (E24/E96) ΙΩ≦R≦ΙΜΩ	IΩ≦R≦IMΩ ±200ppm°C	



# 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

#### **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:

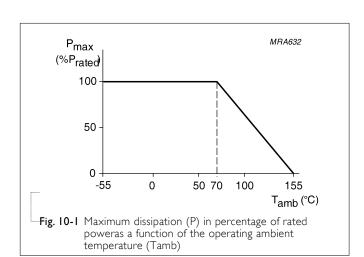
$$V = \sqrt{(PxR)}$$

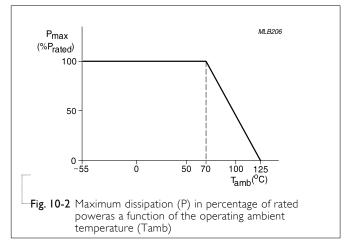
or max. working voltage whichever is less

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

P = Rated power (W)

 $R = Resistance value (\Omega)$ 





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# 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  Formula:	Refer to table 2
(T.C.R.)		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%+100m $\Omega$ ) <100m $\Omega$ for jumper $01005$ : $\pm$ (1% +50m $\Omega$ ) < 50m $\Omega$ f or jumper Others: $\pm$ (1%+50m $\Omega$ ) for B/D/F tol $\pm$ (2%+50m $\Omega$ ) for J tol <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 7a & 7b, unpowered Parts mounted on test-boards, without condensation on parts	$0075: \pm (2\% + 100 \text{m}\Omega)$ $< 100 \text{m}\Omega \text{ for jumper}$ $01005: \pm (2\% + 50 \text{m}\Omega)$ $< 100 \text{m}\Omega \text{f or jumper}$ $Others:$ $\pm (0.5\% + 50 \text{m}\Omega) \text{ for B/ D/F tol}$ $\pm (2\% + 50 \text{m}\Omega) \text{ for J tol}$ $< 100 \text{mR for jumper}$
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%+100m $\Omega$ ) no visible damage 01005: $\pm$ (3% +50m $\Omega$ ) < 100m $\Omega$ f or jumper Others: $\pm$ (1%+50m $\Omega$ ) for B/D/F tol $\pm$ (2%+50m $\Omega$ ) for J tol <100mR for jumper

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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	$0075/01005: \pm (1\% + 50 m\Omega)$ $< 50 m\Omega f \text{ or jumper}$ Others: $\pm (0.5\% + 50 m\Omega) \text{ for B/D/F tol}$ $\pm (1\% + 50 m\Omega) \text{ for J tol}$ $< 50 mR \text{ for jumper}$ $0075/01005: \pm (2\% + 50 m\Omega)$ $< 50 m\Omega f \text{ or jumper}$ Others: $\pm (1\% + 50 m\Omega) \text{ for B/D/F tol}$ $\pm (2\% + 50 m\Omega) \text{ for J tol}$ $< 50 mR \text{ for jumper}$ 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; I 206 and above:2mm	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

SERIES 0075 to 2512

# **REVISION HISTORY**

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 $\sim$ 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

<sup>&</sup>quot;Yageo reserves all the rights for revising the content of this datasheet without further notification, as long as the products itself are unchanged. Any product change will be announced by PCN."

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RC0201FR-07100RL RC0201FR-0710RL RC0201FR-07121KL RC0201FR-072K32L RC0201FR-072K7L RC0201FR-073K3L RC0201FR-074K7L RC0201FR-078K25L RC0201JR-07100RL RC0201JR-0747KL RC0402FR-07100RL RC0402FR-0710RL RC0402FR-0712K4L RC0402FR-07137RL RC0402FR-0714K7L RC0402FR-0714KL RC0402FR-07154RL RC0402FR-07158RL RC0402FR-0715K4L RC0402FR-0715K8L RC0402FR-0715RL RC0402FR-07165KL RC0402FR-0716K2L RC0402FR-07178RL RC0402FR-07180KL RC0402FR-0718RL RC0402FR-0719K6L RC0402FR-0719R1L RC0402FR-071K21L RC0402FR-071K4L RC0402FR-071K82L RC0402FR-071KL RC0402FR-071RL RC0402FR-0720KL RC0402FR-0720KL RC0402FR-0722KL RC0402FR-0722R1L RC0402FR-07232RL RC0402FR-0724R9L RC0402FR-07261RL RC0402FR-07294KL RC0402FR-072K74L RC0402FR-07330KL RC0402FR-07330RL RC0402FR-07332RL RC0402FR-0733K2L RC0402FR-0733R2L RC0402FR-07365RL RC0402FR-0736K5L RC0402FR-0738R3L RC0402FR-0739KL RC0402FR-0743K2L RC0402FR-0747K5L RC0402FR-0747KL RC0402FR-0747RL RC0402FR-07499RL RC0402FR-074K75L RC0402FR-074K7L RC0402FR-074K99L RC0402FR-07510KL RC0402FR-07536RL RC0402FR-0756R2L RC0402FR-0756RL RC0402FR-0762KL RC0402FR-0764R9L RC0402FR-076K8L RC0402FR-07715RL RC0402FR-077K5L RC0402FR-07820RL RC0402FR-078K06L RC0402FR-078K2L RC0402FR-078R2L RC0402FR-0790R9L RC0402JR-07100KL RC0402JR-0710KL RC0402JR-0710ML RC0402JR-07120KL RC0402JR-07150KL RC0402JR 07150RL RC0402JR-0715KL RC0402JR-0715RL RC0402JR-07180KL RC0402JR-07180RL RC0402JR-0718KL RC0402JR-0718RL RC0402JR-071K5L RC0402JR-071K8L RC0402JR-071KL RC0402JR-071ML RC0402JR-071RL RC0402JR-07220RL RC0402JR-0722RL RC0402JR-07270KL RC0402JR-07270RL RC0402JR-0727KL RC0402JR-0727RL RC0402JR-072M2L RC0402JR-072R2L RC0402JR-07330KL RC0402JR-07330RL