Innovative Service Around the Globe YAGEO

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

Product specification – August 02, 2022 V.12

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 1

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 = ±0.1%
D = ±0.5%
F = ±1.0%
J = ±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
7D = 7 inch dia. Reel & 2 x Standard Quantity (0201/0402 only)
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 = 1,000,000Ω

(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 100KΩ with ±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.

MARKING

RC0075 / RC0100 / RC0201 / RC0402

Fig. 1

No Marking

RC0603

Fig. 2 240 = 24 × 10^0 = 24

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

Fig. 3 88A = 806 × 10^0 = 806 Ω

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

Fig. 4 Value = 10 KΩ

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

RC0805 / RC1206 / RC1210 / RC2010 / RC2512

Fig. 5 Value = 10 KΩ

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

Fig. 6 Value = 10 KΩ

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

RC1218

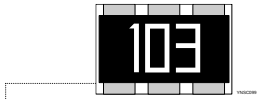

Fig. 7 Value = 10 KΩ

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

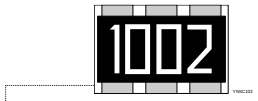

Fig. 8 Value = 10 KΩ

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.9.

Outlines

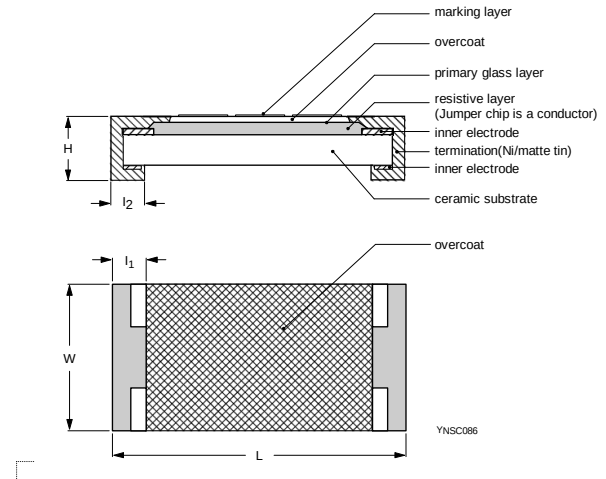

Fig. 9 Chip resistor outlines

DIMENSION

Table 1

TYPE	L (mm)	W (mm)	H (mm)	I_1 (mm)	I_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

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) 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℃ to 125℃	15V	30V	30V	5% (E24) 1Ω≦R≦22MΩ 1% (E24/E96) 1Ω≦R≦10MΩ 0.5% (E24/E96) 33Ω≦R≦470KΩ Jumper<50mΩ	1Ω≦R<10Ω -200~+600ppm°C 10Ω≤ R < 100Ω: ±300ppm/°C 100Ω≤ R ≤ 10MΩ: ±200ppm/°C 10MΩ< R ≤ 22MΩ: ±250ppm/°C	Rated Current 0.5A Maximum Current 1.0A

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) 1Ω≦R≦10MΩ 1% (E24/E96) 1Ω≦R≦10MΩ 0.5% (E24/E96) 1Ω≦R≦1MΩ 0.1% (E24/E96) 10Ω≦R≦1MΩ Jumper<50mΩ	1Ω≦R≦10Ω -100~+350ppm°C 10Ω<R≦10MΩ ±200ppm°C	Rated Current 0.5A Maximum Current 1.0A
RC0402	1/16 W	-55℃ to 155℃	50V	100V	100V	5% (E24) 1Ω≦R≦22MΩ 1% (E24/E96) 1Ω≦R≦10MΩ 0.5% (E24/E96) 1Ω≦R≦1MΩ 0.1% (E24/E96) 10Ω≦R≦1MΩ Jumper<50mΩ	1Ω≦R≦10Ω ±200ppm°C 10Ω<R≦10MΩ ±100ppm°C 10MΩ<R≦22MΩ ±200ppm°C	Rated Current 1.0A Maximum Current 2.0A
	1/8W	-55℃ to 155℃	50V	100V	100V	5% (E24) 1Ω≦R≦1MΩ 1% (E24/E96) 1Ω≦R≦1MΩ	1Ω≦R≦1MΩ ±200ppm°C	
RC0603	1/10 W	-55℃ to 155℃	75V	150V	150V	5% (E24) 1Ω≦R≦22MΩ 1% (E24/E96) 1Ω≦R≦10MΩ 0.5% (E24/E96) 1Ω≦R≦1MΩ 0.1% (E24/E96) 10Ω≦R≦1MΩ Jumper<50mΩ	1Ω≦R≦10Ω ±200ppm°C 10Ω<R≦10MΩ ±100ppm°C 10MΩ<R≦22MΩ ±200ppm°C	Rated Current 1.0A Maximum Current 2.0A
	1/5 W	-55℃ to 155℃	75V	150V	150V	5% (E24) 1Ω≦R≦1MΩ 1% (E24/E96) 1Ω≦R≦1MΩ	1Ω≦R≦1MΩ ±200ppm°C	
RC0805	1/8 W	-55℃ to 155℃	150V	300V	300V	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 ±300ppm°C	Rated Current 2.0A Maximum Current 5.0A
	1/4 W	-55℃ to 155℃	150V	300V	300V	5% (E24) 1Ω≦R≦1MΩ 1% (E24/E96) 1Ω≦R≦1MΩ	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

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℃ to 155℃	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 ±300ppm°C	Rated Current 2.0A Maximum Current 10.0A
	1/2 W	-55℃ to 155℃	200V	400V	500V	5% (E24) 1Ω≦R≦1MΩ 1% (E24/E96) 1Ω≦R≦1MΩ	1Ω≦R≦1MΩ ±200ppm°C	
RC1210	1/2 W	-55℃ to 155℃	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℃ to 155℃	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℃ to 155℃	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℃ to 155℃	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℃ to 155℃	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 EMBOSSED)	EMBOSSED TAPING REEL	
REEL DIMENSION	7" (178 mm)	10" (254mm)	13" (330 mm)	7" (178 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)

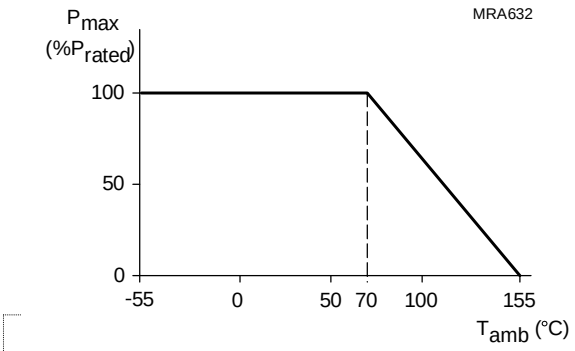

Fig. 10-1 Maximum dissipation (P) in percentage of rated poweras a function of the operating ambient temperature (Tamb)

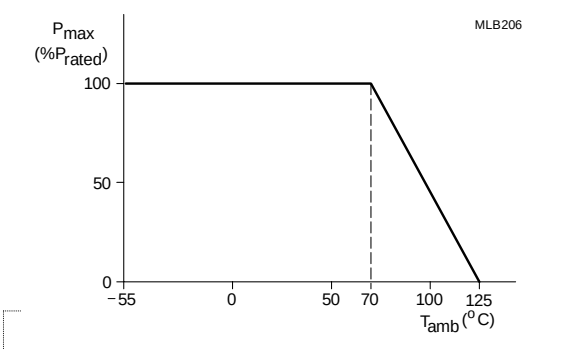

Fig. 10-2 Maximum dissipation (P) in percentage of rated poweras a function of the operating ambient temperature (Tamb)

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: $T.C.R=\frac{R_2-R_1}{R_1(t_2-t_1)}\times 10^6$ (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: ±(1% +50mΩ) < 50mΩ for jumper Others: ±(0.5%+50mΩ) for B/D/F tol ±(1%+50mΩ) 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: ±(2% +50mΩ) < 50mΩ for 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 9.8	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) < 50mΩ for jumper Others: ±(1%+50mΩ) 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: 1st step: aging 4 hours at 155°C dry heat 2nd step: method B1, leadfree solder bath at 245± 3°C Dipping time: 3± 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 ±5°C, 10 ±1 seconds immersion time Procedure 2 for SMD: devices fluxed and cleaned with isopropanol	0075: ± (3%+50mΩ) <50mΩ for jumper 01005: ±(1% +50mΩ) < 50mΩ for jumper Others: ±(0.5% +50mΩ) for B/D/F tol. ±(1% +50mΩ) for J tol. <50mR for jumper No visible damage

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 12	Aug. 02, 2022	-	- I2 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 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 1	Jan. 21, 2015	-	- ESD Safe Reel update
Version 0	Dec. 15, 2014	-	- First issue of this specification

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RC0201FR-072K32L RC0402FR-07158RL RC0402JR-076R8L RC0603FR-0715R4L RC0603FR-071K18L RC0603FR-071M82L RC0603FR-071R3L RC0603FR-07287RL RC0603FR-072R43L RC0603FR-0743R2L RC0603FR-0748R7L RC0603FR-074M3L RC0603FR-075R23L RC0603FR-075R76L RC0603FR-076M49L RC0603FR-076R19L RC0603FR-076R2L RC0603FR-10330KL RC0603JR-07160KL RC0603JR-132KL RC0805FR-07105RL RC0805FR-071K96L RC0805FR-071R62L RC0805FR-07232RL RC0805FR-07255RL RC0805FR-07267KL RC0805FR-0726R1L RC0805FR-072R37L RC0805FR-072R61L RC0805FR-072R74L RC0805FR-07340RL RC0805FR-0734R8L RC0805FR-0742R2L RC0805FR-0743R2L RC0805FR-0745R3L RC0805FR-07487RL RC0805FR-07536KL RC0805FR-0753R6L RC0805FR-075K49L RC0805FR-0763R4L RC0805FR-076M8L RC0805FR-076R19L RC0805FR-0776K8L RC0805FR-07953KL RC0805JR-071M1L RC0805JR-073RL RC0805JR-1333RL RC1206FR-0715K8L RC1206FR-07162RL RC1206FR-0717K8L RC1206FR-071M62L RC1206FR-071R37L RC1206FR-07205KL RC1206FR-07205RL RC1206FR-0720R5L RC1206FR-0724R3L RC1206FR-07261KL RC1206FR-07267KL RC1206FR-0726K7L RC1206FR-07287KL RC1206FR-07294KL RC1206FR-072R37L RC1206FR-072R43L RC0603JR-0724KL RC0805FR-073R24L RC0805FR-0722R6L RC0805FR-0738R3L RC1206FR-0713R3L RC1206FR-0742R2L RC1206FR-0748K7L RC0805FR-072R55L RC1206FR-07768KL RC1206FR-0714R7L RC0603FR-0745R3L RC1206FR-072M05L RC0402FR-07147RL RC0402FR-07226RL RC1206FR-0757K6L RC2010JK-0775RL RC1206FR-0778R7L RC0402FR-07102RL RC0603FR-072R87L RC1206FR-07619KL RC0201JR-0730KL RC0805JR-07510KL RC2512FK-073KL RC0201JR-0724KL RC0603FR-0713R3L RC0603FR-0716R2L RC0402FR-071R6L RC1206FR-079K76L RC0805FR-1339KL RC0603FR-1310K7L RC0603FR-1316RL RC0603FR-132M2L RC0603FR-1322K1L RC0603FR-1375RL RC0603FR-13820KL RC0603FR-13910KL RC1206FR-13220RL