

# Resistors & Potentiometers

## 0603 Chip Resistors (1/10W)

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)

Part No.	Product No.	Manufacturer	Description	Resistance(Ω)	Tolerance(±)	Package
39260	RC0603FR-0711KL	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	11K ohm	+/-1%	5000pcs/R
40285	RC0603FR-0711R3L	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	11.3 ohm	+/-1%	5000pcs/R
40286	RC0603FR-0711R5L	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	11.5 ohm	+/-1%	5000pcs/R
40287	RC0603FR-0711R8L	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	11.8 ohm	+/-1%	5000pcs/R
39899	RC0603FR-0711RL	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	11 ohm	+/-1%	5000pcs/R
38121	RC0603FR-07120KL	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	120K ohm	+/-1%	5000pcs/R
38251	RC0603FR-07120RL	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	120 ohm	+/-1%	5000pcs/R
35094	RC0603FR-0712K	YAGEO	0603 Chip Resistors-Thick Film	12Kohm	+/-1 %	5000pcs/R
24008	RC0603FR-0712K	YAGEO	SMD Resistor	12KΩ	±1%	5000pcs/R
40288	RC0603FR-0712R4L	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	12.4 ohm	+/-1%	5000pcs/R
40289	RC0603FR-0712R7	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	12.7 ohm	+/-1%	5000pcs/R
39900	RC0603FR-0712RL	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	12 ohm	+/-1%	5000pcs/R
40294	RC0603FR-0713R3	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	13.3 ohm	+/-1%	5000pcs/R
40295	RC0603FR-0713R7	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	13.7 ohm	+/-1%	5000pcs/R
39901	RC0603FR-0713RL	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	13 ohm	+/-1%	5000pcs/R
39902	RC0603FR-0714R3	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	14.3 ohm	+/-1%	5000pcs/R
40296	RC0603FR-0714R7L	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	14.7 ohm	+/-1%	5000pcs/R
40302	RC0603FR-0714RL	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	14 ohm	+/-1%	5000pcs/R
37705	RC0603FR-07150KL	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	150K ohm	+/- 1%	5000pcs/R
17359	RC0603FR-07150RL	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	150 ohm	+/-1%	5000pcs/R
40534	RC0603FR-0715K8	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	15.8K ohm	+/-1%	5000pcs/R
40290	RC0603FR-0715R4	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	15.4 ohm	+/- 1%	5000pcs/R
40291	RC0603FR-0715R8L	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	15.8 ohm	+/- 1%	5000pcs/R
40292	RC0603FR-0715RL	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	15 ohm	+/- 1%	5000pcs/R
32529	RC0603FR-07160R	YAGEO	SMD Resistor	160 ohm	+/-1%	5000pcs/R
40537	RC0603FR-07162RL	YAGEO	0603 Chip Resistors-Thick Film	162ohm	+/-1%	5000pcs/R
41339	RC0603FR-07169RL	YAGEO	Chip Resistors-Thick Film	169Ω	±1%	5000pcs/R
40787	RC0603FR-0716K	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	16K ohm	+/-1%	5000pcs/R



### CONSTRUCTION

The resistors are constructed out of a high-grade ceramic body. Internal metal electrodes are added at each end and connected by a resistive paste. The composition of the paste is adjusted to give the approximate required resistance and laser cutting of this resistive layer that achieves tolerance trims the value. The resistive layer is covered with a protective coat. Finally, the two external terminations (Pure Tin) are added. See fig. 4

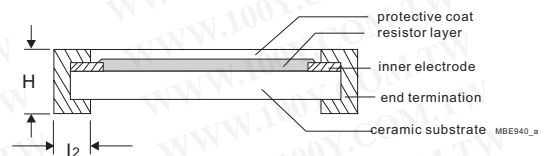
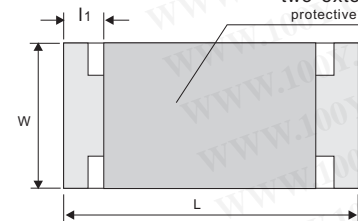


Fig. 4 Chip resistor construction



TYPE	RC0603
L (mm)	1.60 ±0.1
W (mm)	0.80 ±0.10
H (mm)	0.45 ±0.10
l1 (mm)	0.25 ±0.15
l2 (mm)	0.25 ±0.15

### CHARACTERISTICS

RC0603 1/10W

Operating Temperature Range	-55 °C to +155 °C
Maximum Working Voltage	50 V
Maximum Overload Voltage	100 V
Dielectric Withstanding Voltage	100 V
Resistance Range	5% (E24) 1 Ω to 22 MΩ    1% (E96) 1 Ω to 10 MΩ Zero Ohm Jumper < 0.05 Ω
Temperature Coefficient	10 Ω < R ≤ 10 MΩ    ±100 ppm/°C R ≤ 10 Ω; R > 10 MΩ    ±200 ppm/°C
Jumper Criteria	Rated Current 1.0 A Maximum Current 2.0 A

Part No.	Product No.	Manufacturer	Description	Resistance(Ω)	Tolerance(±)	Package
40293	RC0603FR-0716R5L	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	16.9 ohm	+/-1%	5000pcs/R
40297	RC0603FR-0716R9L	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	17.4 ohm	+/-1%	5000pcs/R
40298	RC0603FR-0717R4	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	17.4 ohm	+/-1%	5000pcs/R
40299	RC0603FR-0717R8L	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	17.8 ohm	+/-1%	5000pcs/R
29000	RC0603FR-07180K	YAGEO	SMD Resistor	180KΩ	±1%	5000pcs/R
29142	RC0603FR-07180RL	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	180 ohm	+/-1%	5000pcs/R
32530	RC0603FR-0718R	YAGEO	SMD Resistor	18 ohm	+/-1%	5000pcs/R
40300	RC0603FR-0718R2	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	18.2 ohm	+/-1%	5000pcs/R
40301	RC0603FR-0718R7	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	18.7 ohm	+/-1%	5000pcs/R
38035	RC0603FR-071K2	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	1.2K ohm	+/-1%	5000pcs/R
16337	RC0603FR-071K4L	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	1.4K ohm	+/-1%	5000pcs/R
16998	RC0603FR-071K5L	YAGEO	0603 Chip Resistors-Thick Film-Lead Free	1.5K ohm	+/-1%	5000pcs/R
16737	RC0603FR-071KL	YAGEO	0603 Chip Resistors-Thick Film	1K ohm	+/-1%	5000pcs/R



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