

Resistors & Potentiometers

0603 Chip Resistors (1/10W)

Detailed product specifications are available on: us.100y.com.tw

Part No.	Product No.	Manufacturer	Description	Resistance(Ω)	Tolerance(±)	Package
27882	RP0310E0XXJ	YAGEO	0603 Chip Resistors-Thick Film	10ohm	+/-5%	
27253	RP0310K0XXF		0603 Chip Resistors-Thick Film	10K ohm	+/-1%	
27868	RP0311K3XXF		0603 Chip Resistors-Thick	11.3Kohm	+/-5%	5000PCS/R
28900	RP03130KXXF		0603 Chip Resistors	130KΩ	±1%	5000PCS/R
27251	RP0313K3XXF		0603 Chip Resistors-Thick Film	13.3K ohm	+/-1%	
27885	RP03150EXXJ		0603 Chip Resistors-Thick Film	150ohm	+/-5%	
27395	RP03180EXXF		0603 Chip Resistors-Thick Film	180 ohm	+/-1%	
27881	RP031E00XXJ		0603 Chip Resistors-Thick Film	1ohm	+/-5%	
27256	RP031K00XXF		0603 Chip Resistors-Thick Film	1K ohm	+/-1%	
28888	RP031K00XXJ		0603 Chip Resistors	1KΩ	±5%	5000PCS/R
28891	RP031K40XXF		0603 Chip Resistors	1.4KΩ	±1%	5000PCS/R
28892	RP031K62XXF		0603 Chip Resistors	1.62KΩ	±1%	5000PCS/R
28902	RP0320K0XXF		0603 Chip Resistors	20KΩ	±1%	5000PCS/R
27396	RP03240EXXF		0603 Chip Resistors-Thick Film	240 ohm	+/-1%	
28893	RP032K00XXF		0603 Chip Resistors	2KΩ	±1%	5000PCS/R
28897	RP0330K1XXF		0603 Chip Resistors	30.1KΩ	±1%	5000PCS/R
28889	RP03374EXXF		0603 Chip Resistors	374Ω	±1%	5000PCS/R
27398	RP033M30XXJ		0603 Chip Resistors-Thick Film	3.3M ohm	+/-5%	
28890	RP0347E5XXF		0603 Chip Resistors	47.5Ω	±1%	5000PCS/R
28901	RP03499KXXF		0603 Chip Resistors	499KΩ	±1%	5000PCS/R
27392	RP0349E9XXF		0603 Chip Resistors-Thick Film	49.9 ohm	+/-1%	
28886	RP034E70XXJ	YAGEO	0603 Chip Resistors	4.7Ω	±5%	5000PCS/R
28894	RP034K75XXF		0603 Chip Resistors	4.75KΩ	±1%	5000PCS/R
27255	RP0351K10XXF		0603 Chip Resistors-Thick Film	5.1K ohm	+/-1%	
28898	RP0356K2XXF		0603 Chip Resistors	56.2KΩ	±1%	5000PCS/R
28899	RP0361K9XXF		0603 Chip Resistors	61.9KΩ	±1%	5000PCS/R
27883	RP0368E0XXJ		0603 Chip Resistors-Thick Film	68ohm	+/-5%	
28895	RP036K19XXF		0603 Chip Resistors	6.19KΩ	±1%	5000PCS/R
27252	RP036K34XXF		0603 Chip Resistors-Thick Film	6.34K ohm	+/-1%	
28896	RP036K65XXF		0603 Chip Resistors	6.65KΩ	±1%	5000PCS/R
28887	RP036K80XXJ		0603 Chip Resistors	6.8KΩ	±5%	5000PCS/R
27399	RP036M80XXJ		0603 Chip Resistors-Thick Film	6.6Mohm	+/-5%	



FEATURE

- High reliability and stability
- Reduced size of final equipment
- Lower assembly costs
- Higher component and equipment reliability
- Lead free product upon customer requested



DESCRIPTION

The resistors are constructed in a high grade ceramic body (aluminum oxide). Internal metal electrodes are added at each end and connected by a resistive paste that is applied to the top surface of the substrate. The composition of the paste is adjusted to give the approximate resistance required and the value is trimmed to within tolerance by laser cutting of this resistive layer. The resistive layer is covered with a protective coat. Finally, the two external end terminations are added. For ease of soldering the outer layer of these end terminations is a Lead-tin or Tin (Lead free) alloy.

APPLICATION

- Consumer electrical equipment
- Automotive application
- EDP, Computer application
- Telecom application

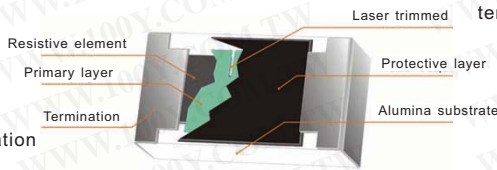
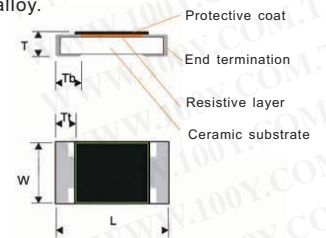


Fig 1. Construction of a Chip-R

	WR06X
L	1.60 ± 0.10
W	0.80 ± 0.10
T	0.45 ± 0.15
Tb	0.30 ± 0.20
Tt	0.30 ± 0.10



TEST AND REQUIREMENTS

TEST	PROCEDURE	REQUIREMENT	
		Resistor	Jumper
DC resistance	DC resistance values measured at the test voltages specified below : <10Ω@0.1V, <100Ω@0.3V, <1KΩ@1.0V, <10KΩ@3V, <100KΩ@10V, <1MΩ@25V, <10MΩ@30V	Within the specified tolerance	< 50mΩ
Temperature Coefficient of Resistance (TCR)	Natural resistance change per change in degree centigrade. $\frac{R_2 - R_1}{R_1 (t_2 - t_1)} \times 10^6$ (ppm/°C) R1 : Resistance at reference temperature R2 : Resistance at test temperature t1 : 25°C	Test temperature -55~+155°C ≥1MΩ, -300~+500ppm/°C ≥10Ω, ≤±200ppm/°C <10Ω, -300~+500ppm/°C	N/a
Short time overload (STOL)	Permanent resistance change after a 5second application of a voltage 2.5 times RCWV or the maximum overload voltage specified in the above list, whichever is less.	ΔR/R max. ±(2%+0.10Ω)	<50mΩ

