

Jumper chip (RPC series)

RPC01 (0201) **RPC03 (0402)** **RPC05 (0603)**
RPC10 (0805) **RPC18 (1206)** **RPC33 (1210)**
RPC50 (2010) **RPC1S (2512)**

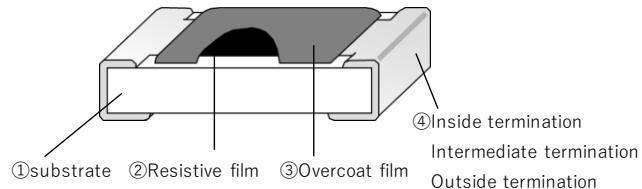
* () : Inch size

Not recommended : RPC18(1206), RPC33(1210)
EOL (End of life) : RPC50(2010), RPC1S(2512)

■ Features

- This product is Jumper chip (0Ω).
- RoHS qualified
- ELV qualified
- AEC-Q200 qualified

■ Structure

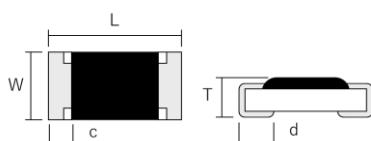


*This is only a schematic drawing of the structure.

■ Part No. Explanation (Example)

R	P	C	0	1	T	0	R	0	
Product type	Size	Packaging form	Nominal resistance value	Resistance tolerance					
RPC : Jumper chip	01:0201 03:0402 05:0603 10:0805 18:1206 33:1210 50:2010 1S:2512	T : 4mm pitch taping ϕ 180 reel (RPC01,03 is 2mm pitch)	0R0 only	Blank					

■ Dimensions



* External dimensions are for reference only.

Overcoat film color : RPC01 is black
RPC03~1S is green

	L	W	T	c	d
RPC01	0.60 ± 0.03	0.30 ± 0.03	0.23 ± 0.03	0.10 ± 0.05	0.15 ± 0.05
RPC03	1.00 ± 0.05	0.50 ± 0.05	0.35 ± 0.05	0.20 ± 0.10	$0.25^{+0.05}_{-0.10}$
RPC05	1.60 ± 0.15	0.80 ± 0.15	0.45 ± 0.10	0.30 ± 0.15	$0.20^{+0.20}_{-0.10}$
RPC10	2.00 ± 0.15	1.25 ± 0.15	$0.55^{+0.10}_{-0.05}$	$0.35^{+0.20}_{-0.15}$	$0.30^{+0.20}_{-0.10}$
RPC18	$3.10^{+0.20}_{-0.10}$	1.55 ± 0.15	$0.55^{+0.10}_{-0.05}$	0.45 ± 0.20	0.35 ± 0.15
RPC33	$3.10^{+0.20}_{-0.10}$	2.60 ± 0.15	0.60 ± 0.10	0.45 ± 0.20	0.35 ± 0.15
RPC50	5.00 ± 0.15	2.50 ± 0.15	0.60 ± 0.10	0.60 ± 0.20	0.60 ± 0.20
RPC1S	6.30 ± 0.20	3.20 ± 0.20	0.60 ± 0.10	0.60 ± 0.20	0.60 ± 0.20

Not recommended : RPC18(1206), RPC33(1210) (Unit: mm)
 EOL (End of life) : RPC50(2010), RPC1S(2512)

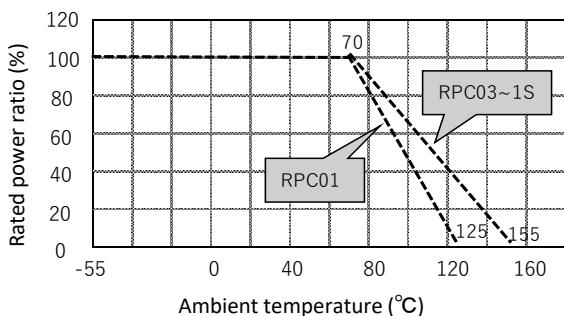
■ Ratings

	Rated current	Maximum overload current	Conducted resistance value	Category temperature range
RPC01	1A	2A	50mΩ or less	-55°C~+125°C
RPC03	1A	2.5A	50mΩ or less	-55°C~+155°C
RPC05	2A	5A	50mΩ or less	-55°C~+155°C
RPC10	2A	5A	50mΩ or less	-55°C~+155°C
RPC18	2A	5A	50mΩ or less	-55°C~+155°C
RPC33	2A	5A	50mΩ or less	-55°C~+155°C
RPC50	2A	5A	50mΩ or less	-55°C~+155°C
RPC1S	2A	5A	50mΩ or less	-55°C~+155°C

■ Specifications and test methods

Item	Specifications	Test method
Resistance value	50mΩ or less	JIS C5201-1 4.5
Overload	50mΩ or less	JIS C5201-1 8.1 Testing current = maximum overload current
Bend strength of the face plating	50mΩ or less	JIS C5201-1 9.8 Bending distance : 3mm
Resistance to soldering heat	50mΩ or less	JIS C5201-1 11.2 260±5°C.10(sec.)
Solderability	Covered with more than 95%	JIS C5201-1 11.1 245±3°C.2(sec.)
Rapid change of temperature	50mΩ or less	JIS C5201-1 10.1 -55°C↔+125°C,1000(times)
Loadlife in humidity	50mΩ or less	60±2°C.90~95% R.H 1000h Testing current = maximum overload current
Endurance at 70°C	50mΩ or less	JIS C5201-1 7.1 70±2°C.1000h Testing current = maximum overload current

■ Derating curve



* Rated power of the resistor is the maximum power which can be loaded continuously at the ambient temperature of 70 °C. For the ambient temperature above 70°C, please use according to the load derating curve (dotted line). Please note that the component surface temperature does not exceed operating temperature range.