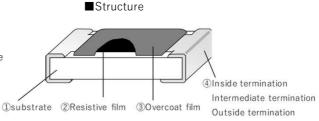
Anti-sulfurated · Small size chip resistors (RXC series)

RXC01 (0201) RXC03 (0402) RXC05 (0603) RXC10 (0805) **RXC18 (1206) RXC33 (1210)**

RXC50 (2010) **RXC1S** (2512) *(): Inch size EOL (End of life) : RXC50(2010) , RXC1S(2512)

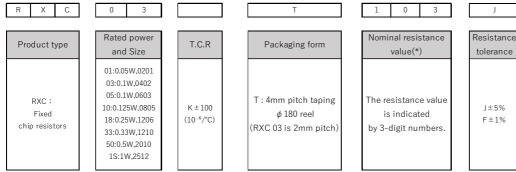
■Features

- · High reliability metal thick film
- · The use of special inside termination contribute to high performance of anti-sulfuration.
- · RoHS qualified
- · ELV qualified
- · AEC-Q200 qualified



^{*}This is only a schematic drawing of the structure.

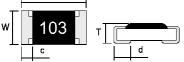
■Part No. Explanation (Example)



^{*}The first two numbers are significant numbers,

and the third one is the number of zeros "0" following to the first two numbers (multiple of 10).

■Dimensions



* External dimensions are for reference only. Overcoat film color: Black

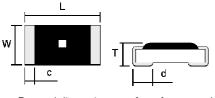
The resistance value is indicated by 3-digit numbers.

W С d 0.60 ± 0.03 RXC01 0.30 ± 0.03 0.23 ± 0.03 0.10 ± 0.05 0.15 ± 0.05 +0.20 0.60 ± 0.10 RXC33 2.60 ± 0.15 0.35 ± 0.15 3.10 0.45 ± 0.20 -0.10RXC50 5.00 ± 0.15 2.50 ± 0.15 0.60 ± 0.10 0.60 ± 0.20 0.60 ± 0.20 RXC1S 6.30 ± 0.20 3.20 ± 0.20 0.60 ± 0.10 0.60 ± 0.20 0.60 ± 0.20

EOL (End of life) : RXC50(2010), RXC1S(2512) (Unit: mm)

There are no resistance indication in RXC01.

Indication color of resistance value: yellow



* External	dimension	ıs are	for r	eference	only
Overcoa	t film color	: Bla	ck		

Yellow ■ shows anti-sulfuration series.

coat film	color :	Blac	:k			-	RXC18	3.10 -0.10
					_			

The resistance value is indicated by 3-digit numbers.

* RXC03 has no indication of resistance value.

	L	W	Т	С	d
RXC03	1.00 ± 0.05	0.50 ± 0.05	0.35 ± 0.05	0.20 ± 0.10	0.25 + 0.05 - 0.10
RXC05	1.60 ± 0.15	0.80 ± 0.15	0.45 ± 0.10	0.30 ± 0.15	0.20 ^{+ 0.20} - 0.10
RXC10	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
RXC18	3.10 ^{+ 0.20} - 0.10	1.55 ± 0.15	0.55 + 0.10 - 0.05	0.45 ± 0.20	0.35 ± 0.15

(Unit: mm)

^{*}If there is a decimal point in resistance value, it is indicated by "R" and all numbers are significant numbers.

■ Ratings

	Rated	Limiting element voltage(*1)	Maximum overload voltage (*2)	Range of rated resistance	Tolerance on rated resistance	Category temperature range		Temperature Resistano	
RXC01	0.05W	25V	50V	1.0 Ω ~3.3 M Ω	J(±5%)	-55°C~+125°C		1.0Ω~9.1Ω	+500×10-6/°C -100×10-6/°C
11/1001	0.03**	234	301					10Ω~3.3MΩ	± 200 × 10 - 6/°C
				10Ω~1MΩ	F(±1%)	-55°C~+125°C		10Ω~1MΩ	± 200 × 10 - 6/°C
DVOOD		50V		1.0 Ω~10 Μ Ω	J(±5%)	-55°C~+155°C		1.0Ω∼9.1Ω	+500×10 ⁻⁶ /°C -100×10 ⁻⁶ /°C
RXC03	0.1W		100V					10Ω~3.3MΩ	±200×10-6/°C
				10Ω~1MΩ	F(±1%)	-55°C~+125°C	Κ	10Ω~1MΩ	±100×10-6/°C
				1.0 Ω∼10 M Ω	J(±5%)	-55°C~+155°C		1.0Ω~9.1Ω	+500×10 ⁻⁶ /°C -100×10 ⁻⁶ /°C
RXC05	0.1W	50V	100V					10Ω~10ΜΩ	±200×10-6/°C
				10Ω~1MΩ	F(±1%)	-55°C~+125°C	Κ	10Ω~1MΩ	±100×10-6/°C
	0.125W	150V	200V	1.0Ω~10ΜΩ	J(±5%)	-55°C~+155°C		1.0Ω∼9.1Ω	+500×10 ⁻⁶ /°C -100×10 ⁻⁶ /°C
RXC10								10Ω~10ΜΩ	± 200 × 10 - 6/°C
				10Ω~2.2MΩ	F(±1%)	-55°C~+125°C	Κ	10Ω~2.2MΩ	±100×10-6/°C
	0.25W	200V	400V	1.0 Ω~10 Μ Ω	J(±5%)	-55°C~+155°C		1.0Ω~9.1Ω	+500×10-6/°C -100×10-6/°C
RXC18					3(=370)			10Ω~10MΩ	± 200 × 10 - 6/°C
				10Ω~2.2MΩ	F(±1%)	-55°C~+125°C	K		±100×10-6/°C
								1.0Ω~9.1Ω	+500×10-6/°C
RXC33	0.33W	200V	400V	1.0Ω~10ΜΩ	J(±5%)	-55°C~+155°C		11011 31111	-100 × 10 ⁻⁶ /°C
117.055								10Ω~10MΩ	± 200 × 10 - 6/°C
				10Ω~1MΩ	F(±1%)	-55°C~+125°C	K	10Ω~1MΩ	±100×10-6/°C
	0.5W	200V	400V	1.0Ω~10ΜΩ	J(±5%)	-55°C~+155°C		1.0Ω~9.1Ω	+500 × 10 ⁻⁶ /°C -100 × 10 ⁻⁶ /°C
RXC50								10Ω~10MΩ	± 200 × 10 - 6/°C
				10Ω~1MΩ	F(±1%)	-55°C~+125°C	K	10Ω~1MΩ	±100×10-6/°C
	1W	200V	400V	1.0 Ω~10 M Ω	J(±5%)	-55°C~+155°C		1.0 Ω~9.1 Ω	+500×10-6/°C
RXC1S									-100 × 10 - 6/°C
								10Ω~10MΩ	± 200 × 10 - 6/°C
				10Ω~1MΩ	F(±1%)	-55°C~+125°C	K	10Ω~1MΩ	± 100 × 10 - 6/°C

(*1) Rated voltage = $\sqrt{Rated\ power \times\ Resistance\ value}$

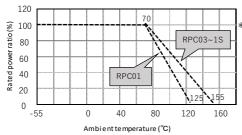
In the case of rated voltage over above limiting element voltage, limiting element voltage will be the maximum.

- (*2) The applied voltage in short time overload test = $2.5 \times \text{rated}$ voltage
 - In the case of the applied voltage in short time overload test over above maximum overload voltage, maximum overload voltage will be the maximum.
- $\boldsymbol{\ast}$ There are the supplementary information about rating on reference page.
- * Temperature Coefficient of Resistance (T.C.R) is based on JIS C5201-1 6.2 between two points: 25°C and 125°C.

■Specifications and test methods

Item	Specifications	Test method				
Overload	± (2%+0.05Ω)	JIS C5201-1 8.1				
Overload	± (2%+0.03\frac{1}{2})	2.5 × Rated voltage, for 5 seconds				
Bend strength of the	± (1%+0.05Ω)	JIS C5201-1 9.8				
face plating	⊥ (1%+0.05Ω)	Bending distance : 3mm				
Resistance to	± (1%+0.05Ω)	JIS C5201-1 11.2				
soldering heat	⊥ (1%+0.05Ω)	$260 \pm 5^{\circ} \text{C.} 10 \text{(sec.)}$				
Solderability	Covered with more than 95%	JIS C5201-1 11.1				
Solderability	Covered with more than 95%	245 ± 3°C.2(sec.)				
Rapid change of	± (1%+0.05Ω)	JIS C5201-1 10.1				
temperature	⊥ (1%+0.05Ω)	-55°C ⇔ +125°C,1000(times)				
Loadlife in humidity	± (3%+0.05Ω)	60 ± 2°C.90~95% R.H 1000h				
Endurance at 70°C	± (3%+0.05Ω)	JIS C5201-1 7.1				
Lindurance at 70 C	± (5%±0.05Ω)	70 ± 2°C.1000h				

■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.