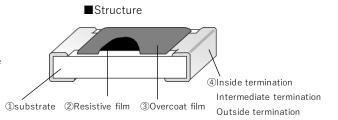
Anti-sulfurated · Small size chip resistors (RXC series)

RXC01 (0201) RXC03 (0402) RXC05 (0603) RXC10 (0805) **RXC18 (1206) RXC33 (1210)** RXC50 (2010) **RXC1S** (2512) *(): Inch size

Not recommended: RXC18(1206), RXC33(1210) EOL (End of life) : RXC50(2010) , RXC1S(2512)

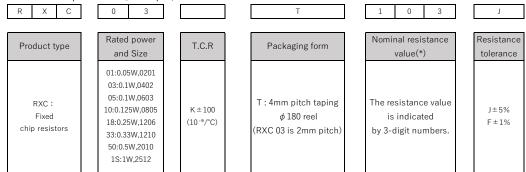
■ Features

- · 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.

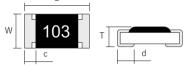
■Part No. Explanation (Example)



^{*}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.

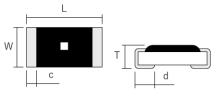
Overcoat film color: Black

The resistance value is indicated by 3-digit numbers. There are no resistance indication in RXC01.

Indication color of resistance value: yellow

	L	W	Т	С	d
RXC01	0.60 ± 0.03	0.30 ± 0.03	0.23 ± 0.03	0.10 ± 0.05	0.15 ± 0.05
RXC33	3.10 ^{+0.20} -0.10	2.60 ± 0.15	0.60 ± 0.10	0.45 ± 0.20	0.35 ± 0.15
RXC50	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

Not recommended : RXC33(1210) (Unit: mm) : RXC50(2010), RXC1S(2512) EOL (End of life)



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

The resistance	value	is i	indicated	hy 1	3-digit	numbers

*RXC03 has no indication of resistance value.

The resistance value is indicated by 3-digit numbers	s.
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	L	W	T	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	

Not recommended: RXC18(1206)

(Unit: mm)

Yellow ■ shows anti-sulfuration series.

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

■ Ratings

Rati	ligo								
	Rated power	Limiting element voltage(*1)	Maximum overload voltage(*2)	Range of rated resistance	Tolerance on rated resistance	Category temperature range		Temperature Resistan	
DV004				1.0Ω~3.3MΩ	J(±5%)	-55°C~+125°C		1.0 Ω ~ 9.1 Ω	+500×10 ⁻⁶ /°C -100×10 ⁻⁶ /°C
RXC01	0.05W	25V	50V					10 Ω ~ 3.3 M Ω	$\pm 200 \times 10^{-6}$ /°C
				10 Ω~1 M Ω	F(±1%)	-55°C~+125°C		10Ω~1ΜΩ	±200×10-6/°C
DV000	50V	100V	1.0Ω~10MΩ	J(±5%)	-55°C~+155°C		1.0Ω∼9.1Ω	+500×10 ⁻⁶ /°C -100×10 ⁻⁶ /°C	
RXC03	0.1W	50 V	1000					10Ω~3.3MΩ	$\pm 200 \times 10^{-6}$ /°C
				$10\Omega{\sim}1M\Omega$	F(±1%)	-55°C~+125°C	Κ	10Ω~1ΜΩ	$\pm100\times10^{-6}/^{\circ}C$
D. 2001			100V	1.0Ω~10MΩ	J(±5%)	-55°C~+155°C		1.0Ω∼9.1Ω	+500×10 ⁻⁶ /°C -100×10 ⁻⁶ /°C
RXC05	0.1W	50V						10Ω~10ΜΩ	$\pm 200 \times 10^{-6}$ /°C
				10 Ω ~ 1 M Ω	F(±1%)	-55°C~+125°C	Κ	10Ω~1ΜΩ	±100×10-6/°C
				1.0Ω~10ΜΩ	J(±5%)	-55°C~+155°C		1.0Ω~9.1Ω	+500×10 ⁻⁶ /°C -100×10 ⁻⁶ /°C
RXC10 0.125W	150V	200V					10 Ω~10 Μ Ω	±200×10-6/°C	
				10Ω~2.2MΩ	F(±1%)	-55°C~+125°C	Κ	10Ω~2.2MΩ	±100×10-6/°C
	RXC18 0.25W 200V		400V	1.0Ω~10MΩ	J(±5%)	-55°C~+155°C		1.0Ω~9.1Ω	+500×10 ⁻⁶ /°C -100×10 ⁻⁶ /°C
RXC18		200V						10 Ω~10 M Ω	±200×10-6/°C
				10Ω~2.2MΩ	F(±1%)	-55°C~+125°C	Κ	10Ω~2.2MΩ	±100×10-6/°C
		40014	1.0 Ω ~10 M Ω	J(±5%)	-55°C~+155°C		1.0Ω~9.1Ω	+500×10 ⁻⁶ /°C -100×10 ⁻⁶ /°C	
RXC33	0.33W	200V	400V					10Ω~10MΩ	±200×10-6/°C
				10Ω~1MΩ	F(±1%)	-55°C~+125°C	Κ	10Ω~1ΜΩ	±100×10-6/°C
RXC50 0.5W	V 200V	400V	1.0Ω~10MΩ	J(±5%)	-55°C~+155°C		1.0 Ω ~ 9.1 Ω	+500×10 ⁻⁶ /°C -100×10 ⁻⁶ /°C	
							10Ω~10ΜΩ	±200×10-6/°C	
				10Ω~1MΩ	F(±1%)	-55°C~+125°C	Κ	10Ω~1ΜΩ	±100×10-6/°C
DV013	1111	LW 200V	400V	1.0Ω~10ΜΩ	J(±5%)	-55°C~+155°C		1.0Ω~9.1Ω	+500×10 ⁻⁶ /°C -100×10 ⁻⁶ /°C
RXC1S	1W							10Ω~10ΜΩ	±200×10-6/°C
				10 Ω ~ 1M Ω	F(±1%)	-55°C~+125°C	Κ	10Ω~1MΩ	±100×10-6/°C

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

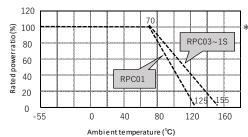
In the case of rated voltage over above limiting element voltage, limiting element voltage will be the maximum.

- (*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.
- $\ensuremath{\ast}$ 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%+0.05 Ω)	JIS C5201-1 8.1				
Overload	± (2%+0.05Ω)	2.5 × Rated voltage, for 5 seconds				
Bend strength of the	± (1%+0.05 Ω)	JIS C5201-1 9.8				
face plating	± (1%+0.05Ω)	Bending distance : 3mm				
Resistance to	± (1%+0.05 Ω)	JIS C5201-1 11.2				
soldering heat	± (1%+0.05Ω)	260 ± 5°C.10(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%+0.05 Ω)	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%+0.05 Ω)	JIS C5201-1 7.1				
Eliquialice at 70°C	± (3 /0+0.05 \(\tau \)	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.