

Metal thin film chip resistors (high voltage operation)

■ RGV series

AEC-Q200 Compliant

Features

- High voltage operation is possible because the limiting element voltage is high. (RGV3225 1000V)
- Long term stability with inorganic Passivation.
- Resistance tolerance : $\pm 0.1\%$, TCR : ± 25 ppm/ $^{\circ}\text{C}$
- Thin film structure enabling low noise and anti-sulfur

Applications

- Automotive electronics
- Industrial measurement instrumentation, Industrial machines.
- High voltage circuit and equipment.



Thin film surface mount resistors

RGT series

◆ Part numbering system

RGV 3216 P - 2004 - B - T5

Series code

Size : RGV3216, RGV3225

Temperature coefficient of resistance

Nominal resistance value(all 4 digit)

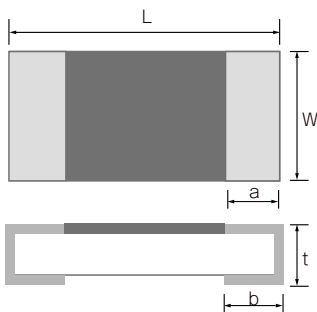
T1(1,000pcs) T5(5,000pcs)

Resistance tolerance

◆ Electrical Specification

Type	Power ratings	Temperature coefficient of resistance	Resistance range(Ω) Resistance tolerance		Maximum voltage	Resistance value series	Operating temperature	Packaging quantity
		(ppm/ $^{\circ}\text{C}$)	$\pm 0.1\%$ (B)	$\pm 0.5\%$ (D)				
RGV3216	1/4W	± 25 (P)	$120\text{K}\Omega \leq R \leq 3\text{M}\Omega$		700V	E-24, E-96	$-55^{\circ}\text{C} \sim 155^{\circ}\text{C}$	T1 T5
		± 50 (Q)						
RGV3225	1/3W	± 25 (P)	$120\text{K}\Omega \leq R \leq 4.3\text{M}\Omega$		1000V	E-24, E-96	$-55^{\circ}\text{C} \sim 155^{\circ}\text{C}$	T1 T5
		± 50 (Q)						

◆ Dimensions



Type	Size (inch)	L	W	a	b	t
RGV3216	1206	3.20 ± 0.20	1.60 ± 0.25	0.50 ± 0.25	0.50 ± 0.20	$0.40 + 0.15 / - 0.1$
RGV3225	1210	3.20 ± 0.20	2.50 ± 0.25	0.50 ± 0.25	0.50 ± 0.20	$0.40 + 0.15 / - 0.1$

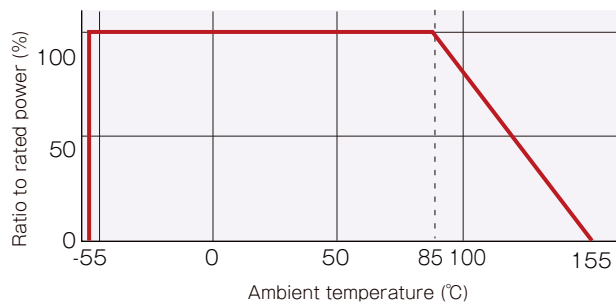
(unit : mm)

◆ Reliability specification

Test items	Condition(IEC60115-1/JIS C5201-1)	Standard
Life (biased)	85°C, rated voltage ^{*1} , 90min. ON/ 30min. OFF, 1000hours	±0.05%+0.05Ω
High temperature high humidity	85°C, 85%RH, 1/10 of rated power, 90min. ON/ 30min. OFF, 1000hours	±0.1%+0.05Ω
Temperature shock	-55°C (30min) ~ 125°C(30min) 1000 cycles	±0.1%+0.01Ω
High temperature exposure	155°C, no bias, not mounted, 1000h	±0.1%+0.01Ω
Resistance to soldering heat	260±5°C, 10seconds (reflow)	±0.05%+0.01Ω

*1 Rated voltage is given by $E = \sqrt{R \times P}$ E= rated voltage (V), R=nominal resistance value(Ω), P=rated power(W)
If rated voltage exceeds maximum voltage /element, maximum voltage/element is the rated voltage.

◆ Derating Curve



单击下面可查看定价，库存，交付和生命周期等信息

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