



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 : $\pm 25 \text{ ppm}/^\circ\text{C}$
- Thin film structure enabling low noise and anti-sulfur



Applications

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

◆ Part numbering system

RGV 3216 P - 2004 - B - T5

Series code

Size : RGV1608, RGV2012, RGV3216, RGV3225

Temperature coefficient of resistance

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

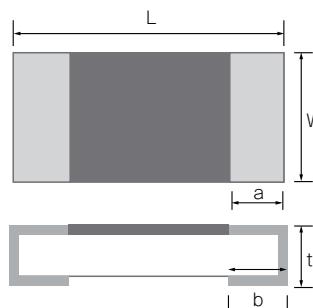
Resistance tolerance

Nominal resistance value(all 4 digit)

◆ Electrical Specification

Type	Power ratings	Temperature coefficient of resistance (ppm/ $^\circ\text{C}$)	Resistance range(Ω) Resistance tolerance		Maximum voltage	Resistance value series	Operating temperature	Packaging quantity				
			$\pm 0.1\%$ (B)	$\pm 0.5\%$ (D)								
RGV1608	1/10W	$\pm 25\text{(P)}$	$100\text{K}\Omega \leq R \leq 1\text{M}\Omega$		200V	E-24, E-96	-55 $^\circ\text{C} \sim 155\text{ }^\circ\text{C}$	T1 T5				
		$\pm 50\text{(Q)}$										
RGV2012	1/8W	$\pm 25\text{(P)}$	$100\text{K}\Omega \leq R \leq 2\text{M}\Omega$		300V	E-24, E-96	-55 $^\circ\text{C} \sim 155\text{ }^\circ\text{C}$	T1 T5				
		$\pm 50\text{(Q)}$										
RGV3216	1/4W	$\pm 5\text{(V)}$	$2\text{M}\Omega$		700V	E-24, E-96	-55 $^\circ\text{C} \sim 155\text{ }^\circ\text{C}$	T1 T5				
		$\pm 25\text{(P)}$	$120\text{K}\Omega \leq R \leq 3\text{M}\Omega$									
		$\pm 50\text{(Q)}$										
RGV3225	1/3W	$\pm 25\text{(P)}$	$120\text{K}\Omega \leq R \leq 4.3\text{M}\Omega$		1000V	E-24, E-96	-55 $^\circ\text{C} \sim 155\text{ }^\circ\text{C}$	T1 T5				
		$\pm 50\text{(Q)}$										

◆ Dimensions



Type	Size (inch)	L	W	a	b	t
RGV1608	0603	1.60 ± 0.20	0.80 ± 0.20	0.30 ± 0.20	0.30 ± 0.20	$0.40 \pm 0.15/-0.10$
RGV2012	0805	2.00 ± 0.20	1.25 ± 0.20	0.40 ± 0.20	0.40 ± 0.20	$0.40 \pm 0.15/-0.10$
RGV3216	1206	3.20 ± 0.20	1.60 ± 0.25	0.50 ± 0.25	0.50 ± 0.20	$0.40 \pm 0.15/-0.1$
RGV3225	1210	3.20 ± 0.20	2.50 ± 0.25	0.50 ± 0.25	0.50 ± 0.20	$0.40 \pm 0.15/-0.1$

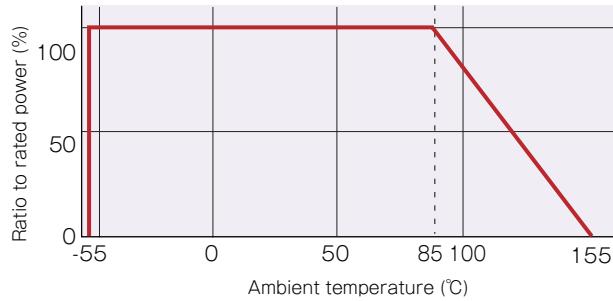
(unit : mm)

◆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

[>>SUSUMU\(进工业\)](#)