

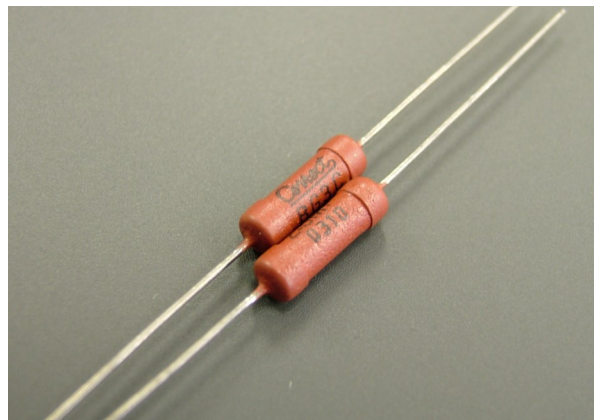
Correctohm-RG Series

RESISTOR

Metal Glaze Resistor

High range & High voltage

Anti Pulse / Surge



Dimensions

RG08

RG14

indication example

Brand-name
Product type / Coating-type / T.C.R / Rated
Resistance value / Tolerance
Date

Resistance value / Tolerance
Date

*RG14 2E is color code indication only.
*Product type of RGxx2H and RGxx2K is non-indication.
*Coating type of RGxx2H and RGxx2K is non-indication.
*Rated power of RGxx2H and RGxx2K is non-indication.
*Brand name of RGxx2H is non-indication.
*T.C.R of RGxx2H and RGxx2K, RGxx3C is non-indication.

Dimensions [mm]

Product type	D	L	d	L1	C
RG08 2H	3.0±0.5	9.0±1.0	0.6±0.05	38±3	-
RG08 2K	3.0±0.5	13.0±1.0	0.6±0.05	38±3	-
RG08 3C	5.0±0.5	15.0±1.5	0.8±0.05	38±3	-
RG08 3E	7.5±1.0	24.0±1.5	0.8±0.05	38±3	-
RG14 2E	2.3±0.2	6.3±0.5	0.6±0.05	27±2	7.5 or less
RG14 2H	3.6±0.5	9.0±0.5	0.6±0.05	27±2	10.5 or less
RG14 2K	3.6±0.5	13.5±1.0	0.6±0.05	38±3	15.0 or less
RG14 3C	5.5±0.5	16.0±1.5	0.8±0.05	38±3	18.5 or less

Materials

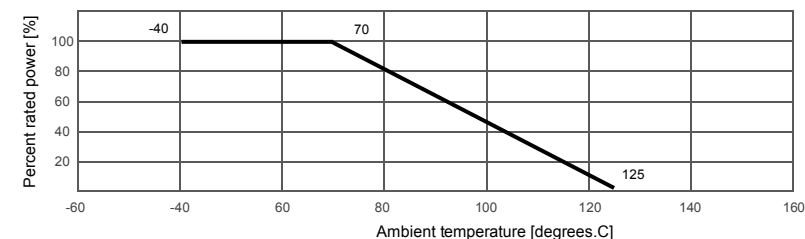
Insulation coating	epoxy resin (RG14)
	silicone resin (RG08)
Resistive film	Metal glaze
Lead wire	annealed copper wire
Core	ceramic

Model number

RG	08	V	3C	100Mohm	G
Product type	Coating type	Temperature	Rated power	Resistance value	Resistance tolerance
	08: silicone resin	coefficient			F: ±1%
	14: epoxy resin	of resistance			G: ±2%
					J: ±5%

Rating

Product type	Rated power [W] 70 degs.C	Highest usable voltage [KV]	Extreme highest overload voltage [KV]	Applicable temperature range [degs.C]
RG08 2H	0.5	0.6	1.2	-40~125 [degs.C]
RG08 2K	0.8	1.0	2.0	
RG08 3C	1.6	1.5	3.0	
RG08 3E	2.5	3.0	6.0	
RG14 2E	0.25	0.3	0.6	
RG14 2H	0.5	0.6	1.2	
RG14 2K	0.8	1.0	2.0	
RG14 3C	1.6	1.5	3.0	



Temperature coefficient of resistance

Symbol	K	V
T.C.R [ppm/degs.C]	±100	±300

Resistance tolerance

Symbol	F	G	J
Tolerance [%]	±1	±2	±5

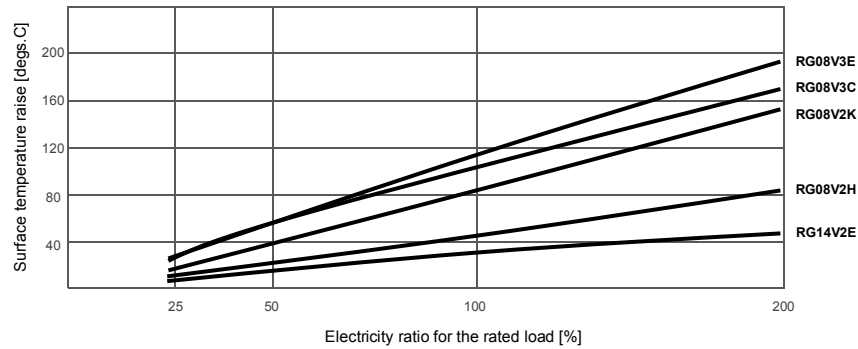
Production resistance value range

Product type	Temperature Coefficient of resistance	Production resistance value range [Mohm]				
		Rated power				
		2E	2H	2K	3C	3E
RG08	K	-	1~10	1~10	1~30	-
	V	-	1~510	1~510	1~510	1~510
RG14	K	0.301~10	1~10	1~10	1~30	-
	V	0.301~100	1~510	1~510	1~510	-

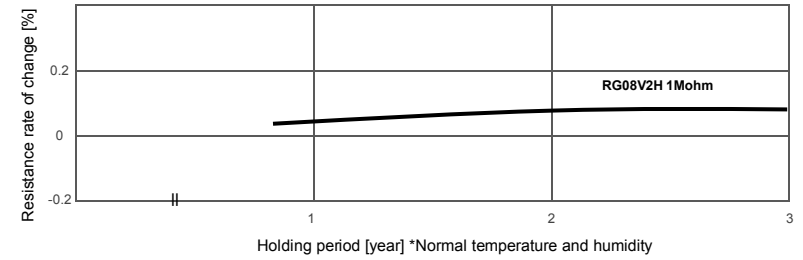
General specifications

	RG
Storage temp. range	-10 to +50 degrees C
Relative humidity	85%RH (No condensation)

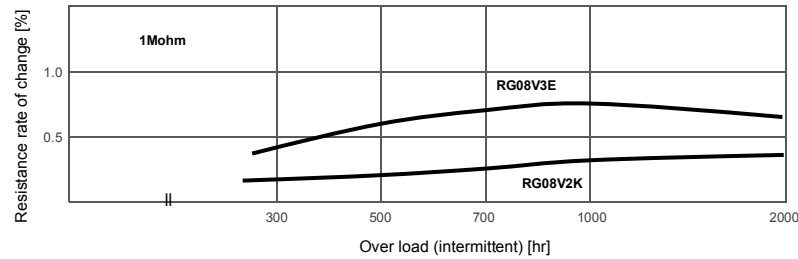
Surface temperature raise



Secular variation



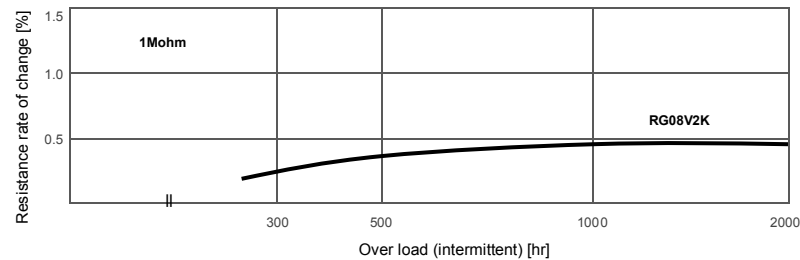
Humidity load life test



Performance

Performance test contents		Performance of Correctohm-RG	JIS C 5202
Electric	Resistance value	Rate value	5.1
	T.C.R	Rate value	5.2
	Overload (short time)	$\pm(0.25\%+0.05\text{ohm})$	5.5
	Insulation resistance	10,000Mohm Min. (*RG14)	5.6
	Voltage proof	$\pm(0.25\%+0.05\text{ohm})$ (*RG14)	5.7
Mechanic	Terminal strength	$\pm(0.25\%+0.05\text{ohm})$	6.1
	Vibration resistance	$\pm(0.25\%+0.05\text{ohm})$	6.3
	Solder dip resistance	$\pm(0.25\%+0.05\text{ohm})$	6.4
	Solderability	95% Min.	6.5
	Solvent resistance	Appearance not having a problem.	6.9
Weatherability	Temperature cycling test	$\pm(0.25\%+0.05\text{ohm})$	7.4
	Humidity resistance	$\pm(1.0\%+0.05\text{ohm})$	7.9
	Rated load	$\pm(2.0\%+0.05\text{ohm})$	7.10

Rated load life test [70degs.C]



Performance test contents		Performance of Correctohm-RG	JIS C 5201-1
Electric	Mono pulse high voltage overload test (Surge test)	$\pm(2\%+0.05\text{ohm})$	4.27
	Cycle pulse high voltage overload test (Pulse test)	$\pm(2\%+0.05\text{ohm})$	4.28

Note

* Use to the apparatus which may cause an in-vehicle apparatus (including the train), medical equipment, an aviation apparatus, an apparatus about human life including the ship apparatus and the serious damage;