

# Flame Proof Wire Wound Fixed Resistors

## RGH-Type (RoHS-compliant products)

### Introduction

This resistor is manufactured in accordance with the JIS-C-6401 standard. It is wound from carefully selected resistive wire and coated with special flame proof coating. Smoke is rarely generated during overload, and there is no danger of fire or melting.

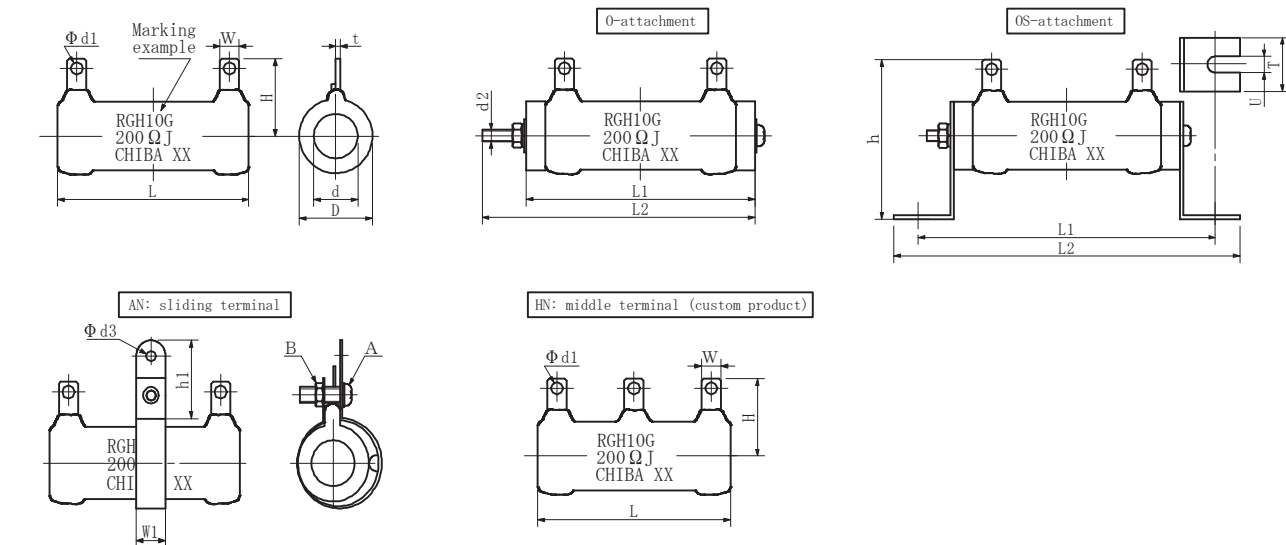
### Features

- Wide range of power ···· With 18 types manufactured in the range from 5W to 1kW, it is a basic power resistor type.
- Overload safety ···· Compared to conventional enameled resistors, there is no danger of fire or melting, so safety is ensured.

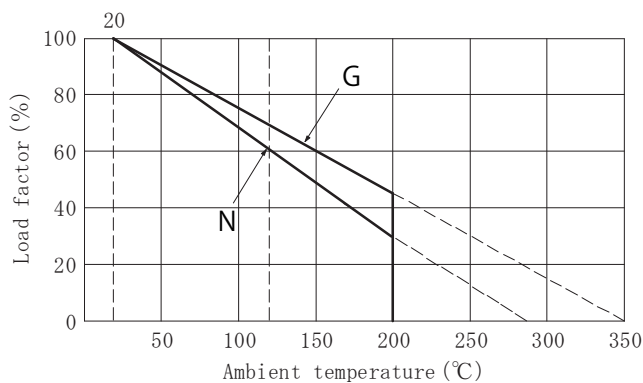
### Type descriptions

<b>RGH50</b> Style	<b>A1</b> Terminal code	<b>G</b> Spec. code	<b>(OS)</b> Assembly code	<b>120Ω</b> Nominal resistance	<b>J</b> Resistance tolerance
RGH5~RGH1000	A1: sliding terminal (1pc) AN: sliding terminal (Npcs) HN: middle terminal (Npcs)	G: wire wound N: non-inductive	No: single O: O-attachment OS: OS-attachment	Ω or kΩ indication (E-24 series)	J: ±5% K: ±10%

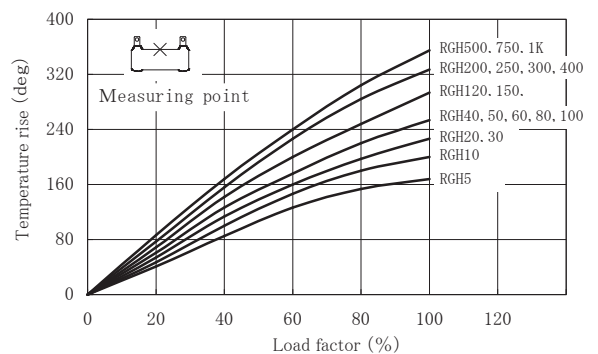
(\*1) All types except A1 are custom products. Please consult manufacturer.



### Load derating curve



### Temperature rise curve (reference)



## ■ Dimensions & Resistance range

Style	Power rating (W)		Resistance Range ( $\Omega$ )			Dimensions (mm)							
	Wire wound	Non-inductive	Wire wound(*1)	Non-inductive(*2)	Sliding terminal	L	D	H	d	W $\pm 0.5$	d1	t	d2
RGH5	5	3	0.10~ 3.9K	0.10~ 1.8K	0.10~ 270	30 $\pm 1.2$	15MAX	17.5 $\pm 1.5$	6.0 $\begin{smallmatrix} +1 \\ -2 \end{smallmatrix}$	5	3.2 $\pm 0.3$	1.0	M3
RGH10	10	5	0.12~ 6.8K	0.12~ 4.7K	0.12~ 560	45 $\pm 1.2$	"	"	"	"	"	"	"
RGH20	20	10	0.22~ 15.0K	0.22~ 8.2K	0.22~ 1.0K	50 $\pm 1.2$	22MAX	21.0 $\pm 1.5$	11.5 $\begin{smallmatrix} +1 \\ -2 \end{smallmatrix}$	"	"	"	"
RGH30	30	15	0.33~ 22.0K	0.33~15.0K	0.33~ 1.5K	75 $\pm 1.5$	"	"	"	"	"	"	"
RGH40	40	20	0.39~ 27.0K	0.39~18.0K	0.39~ 2.4K	90 $\pm 1.5$	"	"	"	"	"	"	"
RGH50	50	22	"	0.39~18.0K	0.39~ 2.7K	75 $\pm 1.5$	32MAX	32.0 $\pm 1.5$	16.0 $\begin{smallmatrix} +1 \\ -2 \end{smallmatrix}$	8	4.2 $\pm 0.3$	1.6	M4
RGH60	60	25	0.56~ 43.0K	0.56~22.0K	0.56~ 3.3K	90 $\pm 1.5$	"	"	"	"	"	"	"
RGH80	80	35	0.68~ 56.0K	0.68~33.0K	0.68~ 4.7K	115 $\pm 1.5$	"	"	"	"	"	"	"
RGH100	100	43	1.00~ 62.0K	1.00~39.0K	1.00~ 5.6K	140 $\pm 2.0$	"	"	"	"	"	"	"
RGH120	120	50	1.20~ 82.0K	1.20~47.0K	1.20~ 6.8K	165 $\pm 2.0$	"	"	"	"	"	"	"
RGH150	150	66	1.50~ 82.0K	1.50~56.0K	1.50~ 7.5K	195 $\pm 2.0$	"	"	"	"	"	"	"
RGH200	200	88	2.20~100.0K	2.20~82.0K	2.20~ 9.1K	254 $\pm 2.0$	"	"	"	"	"	"	"
RGH250	250	108	3.30~100.0K	3.30~82.0K	3.30~10.0K	305 $\pm 2.0$	"	"	"	"	"	"	"
RGH300	300	130	4.70~100.0K	4.70~82.0K	4.70~10.0K	254 $\pm 2.0$	46MAX	44.0 $\pm 3.0$	25.0 $\pm 1.5$	13	6.0 $\pm 0.5$	2.0	—
RGH400	400	168	"	"	"	330 $\pm 2.0$	"	"	"	"	"	"	—
RGH500	500	210	10.00~100.0K	10.00~82.0K	10.00~10.0K	300 $\pm 2.0$	57MAX	49.0 $\pm 3.0$	30.0 $\pm 1.5$	"	"	"	—
RGH750	750	315	"	"	—	300 $\pm 2.0$	82MAX	62.0 $\pm 3.0$	50.0 $\pm 1.5$	"	"	"	—
RGH1000	1000	420	"	"	—	300 $\pm 2.0$	110MAX	75.0 $\pm 3.0$	70.0 $\pm 1.5$	"	"	"	—

Style	Dimensions (mm)			O (*4)		OS		Sliding terminal(*5)			Screw	Nut	Weight (g) (*3)
	h	U	T	L1	L2 $\begin{smallmatrix} +0 \\ -1.5 \end{smallmatrix}$	L1	L2	W1 $\pm 0.5$	d3 $\pm 0.3$	h1 $\pm 1$	A	B	
RGH5	29.5 $\pm 3$	3.5 $\pm 0.3$	12 $\pm 0.3$	38 $\pm 1.5$	50	48 $\pm 1.5$	58 $\pm 1.5$	6	2.8	15	M3*10	1種	7
RGH10	"	"	"	53 $\pm 1.5$	65	63 $\pm 1.5$	73 $\pm 1.5$	"	"	"	"	"	11
RGH20	36.0 $\pm 3$	4.5 $\pm 0.3$	18 $\pm 0.3$	60 $\pm 1.5$	70	74 $\pm 1.5$	86 $\pm 1.5$	"	3.2	"	M3*12	"	24
RGH30	"	"	"	85 $\pm 2.0$	95	99 $\pm 2.0$	111 $\pm 2.0$	"	"	"	"	"	37
RGH40	"	"	"	100 $\pm 2.0$	110	114 $\pm 2.0$	126 $\pm 2.0$	"	"	"	"	"	40
RGH50	56.0 $\pm 3$	6.0 $\pm 0.3$	27 $\pm 0.4$	87 $\pm 2.0$	100	103 $\pm 2.0$	125 $\pm 2.0$	8	4.2	16	M3*15	"	71
RGH60	"	"	"	102 $\pm 2.0$	115	118 $\pm 2.0$	140 $\pm 2.0$	"	"	"	"	"	90
RGH80	"	"	"	127 $\pm 2.0$	140	143 $\pm 2.0$	165 $\pm 2.0$	"	"	"	"	"	110
RGH100	"	"	"	152 $\pm 2.5$	165	168 $\pm 2.5$	190 $\pm 2.5$	"	"	"	"	"	125
RGH120	"	"	"	177 $\pm 2.5$	190	193 $\pm 2.5$	215 $\pm 2.5$	"	"	"	"	"	150
RGH150	"	"	"	207 $\pm 2.5$	220	223 $\pm 2.5$	245 $\pm 2.5$	"	"	"	"	"	190
RGH200	"	"	"	266 $\pm 2.5$	280	282 $\pm 2.5$	304 $\pm 2.5$	"	"	"	"	"	250
RGH250	"	"	"	317 $\pm 2.5$	330	333 $\pm 2.5$	355 $\pm 2.5$	"	"	"	"	"	300
RGH300	84.0 $\pm 4$	10.0 $\pm 0.5$	40 $\pm 0.5$	—	—	304 $\pm 3.0$	334 $\pm 3.0$	11	4.3	20	M4*20	"	530
RGH400	"	"	"	—	—	380 $\pm 3.0$	410 $\pm 3.0$	"	"	"	"	"	630
RGH500	99.0 $\pm 5$	"	58 $\pm 0.5$	—	—	350 $\pm 3.0$	380 $\pm 3.0$	"	4.5	25	"	"	1000
RGH750	112.0 $\pm 5$	"	"	—	—	358 $\pm 3.0$	388 $\pm 3.0$	—	—	—	—	—	1500
RGH1000	160.0 $\pm 5$	8.5 $\pm 0.5$	100 $\pm 1.0$	—	—	389 $\pm 3.0$	440 $\pm 3.0$	—	—	—	—	—	3100

(\*1) General wire wound resistors below 10 $\Omega$  may not support J( $\pm 5\%$ ) specification.

(\*2) Please consult about resistance tolerance of non-inductive resistors.

(\*3) The weight is given for resistors without assembly.

(\*4) O-attachment can not be used on types from RGH300 and above.

(\*5) Non-inductive resistors are not provided with sliding terminal.