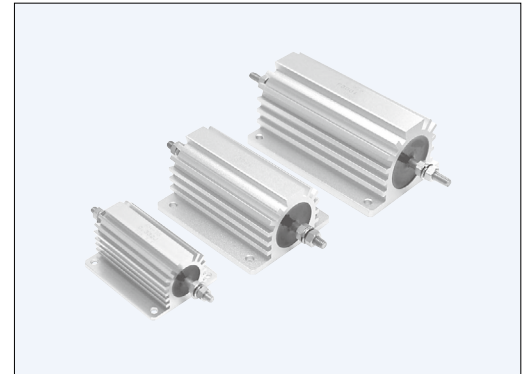


**POWER TYPE METAL CLAD WIRE-WOUND RESISTORS** RH / RHF

Compact but high-power metal clad wire-wound resistor sealed with heat-resistant cement

**Features:**

- Excellent short time overload characteristics
- Low TCR
- Non-inductive type as well as Inductive type available

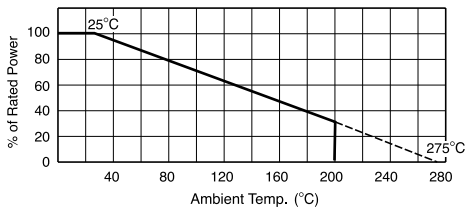


**FIG.1**

Type	Wattage Rating (W)		Resistance Range (Ω)		Resistance Tolerance (%)	MAX Working (V)		Dielectric Strength (V)	Operating Temp. (°C)	MAX Weight (g)
	Chassis Mounted	Free Air	Inductive(RH)	Non-Inductive (RHF)		RH	RHF			
RH-75	75	30	0.2 ~ 20K	0.07 ~ 10K	±0.5(D) R ≧ 10Ω ±1 (F) R ≧ 0.1Ω ±2 (G) ±3 (H) ±5 (J) ±10 (K)	1500	1050	AC4500	-55~+200	200
RH-100	120	50	0.4 ~ 50K	0.12 ~ 25K		1900	1340			450
RH-250	200	75	0.6 ~ 80K	0.1 ~ 40K		2500	1750			800

The smaller one among the two values below needs to be dealt as maximum working voltage.  
 Rated voltage =  $\sqrt{\text{Rated power} \times \text{Nominal resistance value}}$  or the maximum working voltage specified in the table.

**Ambient Temp. Derating Curve**

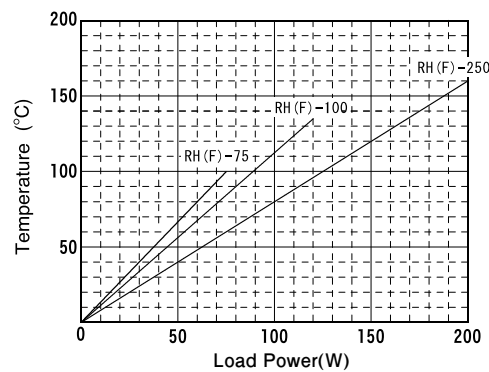


**Temp. Coefficient**

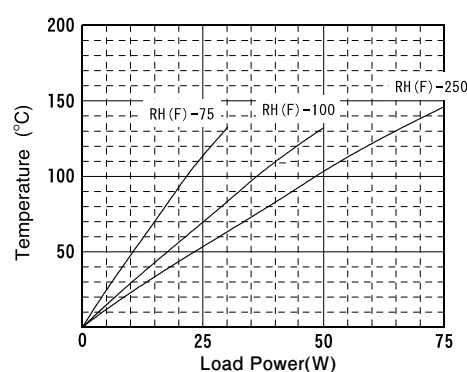
(Standard Temp. +25°C Test Temp. -55°C, +125°C, +200°C)

Type	Temp. Coefficient (ppm/°C)		
	±30	±50	±100
RH-75	2KΩ ≤ R	0.3Ω ≤ R < 2KΩ	0.2Ω ≤ R < 0.3Ω
RH-100	4KΩ ≤ R	0.5Ω ≤ R < 4KΩ	0.4Ω ≤ R < 0.5Ω
RH-250	6KΩ ≤ R	0.8Ω ≤ R < 6KΩ	0.6Ω ≤ R < 0.8Ω
RHF75	1KΩ ≤ R	0.5Ω ≤ R < 1KΩ	0.07Ω ≤ R < 0.5Ω
RHF100	2KΩ ≤ R	0.7Ω ≤ R < 2KΩ	0.12Ω ≤ R < 0.7Ω
RHF250	3KΩ ≤ R	1Ω ≤ R < 3KΩ	0.1Ω ≤ R < 1Ω

**Surface Temp. Versus Load Power. (on chassis)**



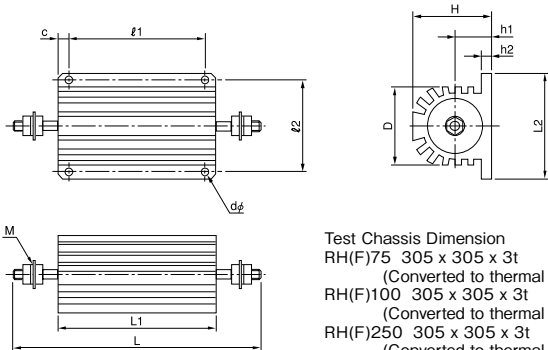
**Surface Temp. Versus Load Power. (Free air)**



**POWER TYPE METAL CLAD WIRE-WOUND RESISTORS**

**RH / RHF**

RH (F) 75~RH (F) 250



Test Chassis Dimension  
 RH(F)75 305 x 305 x 3t  
 (Converted to thermal resistance:1 °C/W)  
 RH(F)100 305 x 305 x 3t  
 (Converted to thermal resistance:1 °C/W)  
 RH(F)250 305 x 305 x 3t  
 (Converted to thermal resistance:1 °C/W)

Type	Dimensions (mm)											
	L	L1±1	L2±0.8	ℓ1±0.8	ℓ2±0.8	D±1	H±0.8	d±0.3	c±0.8	h1±1	h2±0.5	M
RH-75	110	66	52	56	42	32	33	4.8	5	16	3.2	5
RH-100	140	88.9	71.4	69.9	57.2	46	44.5	4.8	9.5	19.5	4.8	6
RH-250	177.8	114.3	76.2	98.4	63.5	54	55.6	4.8	7.9	25.4	6.4	6

**Performance:**(Following figures are not applied to the resistors less than 0.1Ω)

Parameters	Test Condition	Specification
Terminal Strength	Torque Test (5~15 sec) RH-75 2.7N·m, RH-100 RH-250 3.6N·m	±(0.2%+0.05Ω)
Heat Resistance	275°C 2Hr	±(0.5%+0.05Ω)
Dielectric Strength	FIG.1 1min.	±(0.2%+0.05Ω)
Insulation Resistance	Under the same test condition of Dielectric Strength, load DC500V and measure the Insulation R.	1000MΩ MIN
Short Time Over Load	5×Wattage Rating 5 sec	±(0.5%+0.05Ω)
Moisture Resistance	Temp. 40°C Moisture 95% 1/10×Wattage Rating (1.5Hr ON 0.5Hr OFF) Repeat 500Hr	±(0.5%+0.05Ω)
Load Life	Load Rating (chassis mounted) 1.5Hr ON 0.5Hr OFF Repeat 1000Hr	RH(F)5~RH(F)55 ±(1%+0.05Ω) RH(F)60~RH(F)250 ±(3%+0.05Ω)
Vibration	10Hz - 55Hz - 10Hz(1 min) Horizontal and vertical direction for 2 Hr each	±(0.2%+0.05Ω)

**About Pulsed Load Power**

Please refer to "How to select a wire-wound resistor at a short time overload"(Document #PDB101-2-1f). It is available by sending us a request form on our website.

**How to order**

RH-250   100Ω   F  
 Type            Resistance    Tolerance

- Type: "RHF" for non-inductive wire winding
- Standard Resistance E-24 Series J (±5%)
- Order for a single piece accepted for any resistance value within the standard resistance range



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