

POWER TYPE METAL CLAD WIRE-WOUND RESISTORS

RH / RHF

Features:

Small size, high power rating and high performance. (Heatproof cement molding)
 Excellent short time overload.
 Low temperature coefficient.
 Both standard winding type (RH) and non-inductive winding type (RHF) are available.

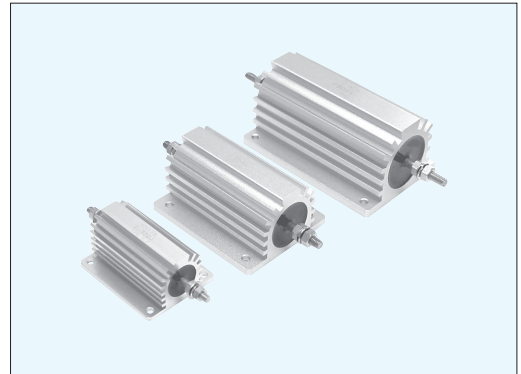
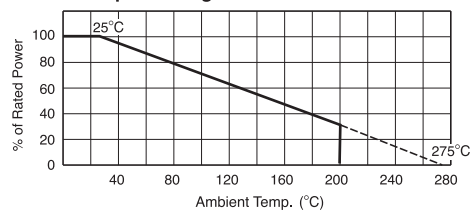


FIG.1

Type	Wattage Rating (W)		Resistance Range (Ω)		Resistance Tolerance (%)	MAX Working (V)		Dielectric Strength. (V)	Operating Temp. (°C)	MIL Type	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) $R \geq 10\Omega$ ± 1 (F) $R \geq 0.1\Omega$	1500	1050	AC4500	-55~+200	—	200
RH-100	120	50	0.4 ~ 50K	0.12 ~ 25K	± 2 (G) ± 3 (H) ± 5 (J) ± 10 (K)	1900	1340			RE77	450
RH-250	200	75	0.6 ~ 80K	0.1 ~ 40K		2500	1750			RE80	800

Ambient Temp. Derating Curve

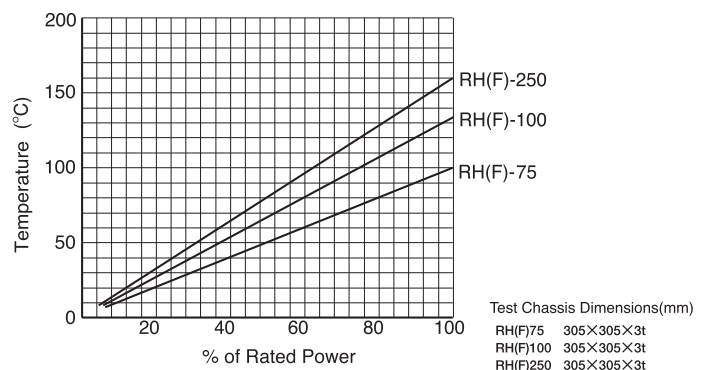


Temp. Coefficient

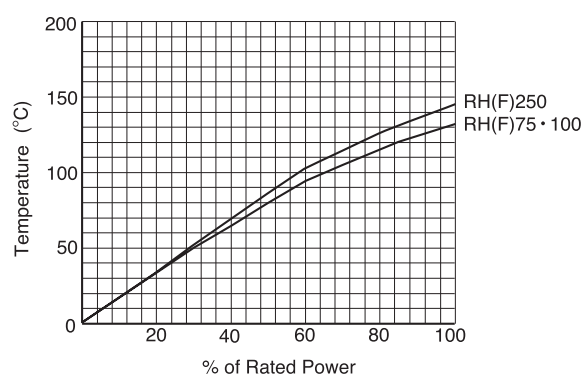
(Standard Temp. +25°C Test Temp. -55°C, +125°C, +200°C)

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

Surface Temp. Versus Power Load. (on chassis)



Surface Temp. Versus Power Load. (Free air)



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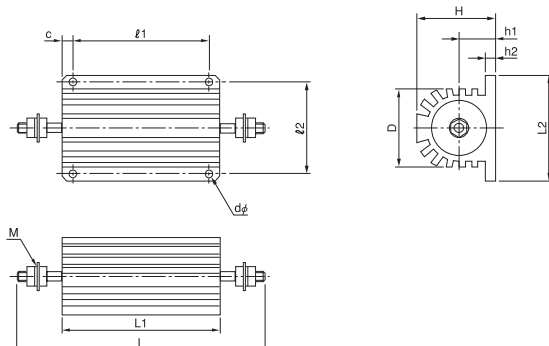
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POWER TYPE METAL CLAD WIRE-WOUND RESISTORS

RH / RHF

RH (F) 75~RH (F) 250



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) 2Hr each of paralleled and right angle	±(0.2%+0.05Ω)

How to order

RH-250 100Ω F
Type Resistance Tolerance

- in case of Non-inductive type use RHF
- Standard Resistance E-24 Series J (±5%)



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