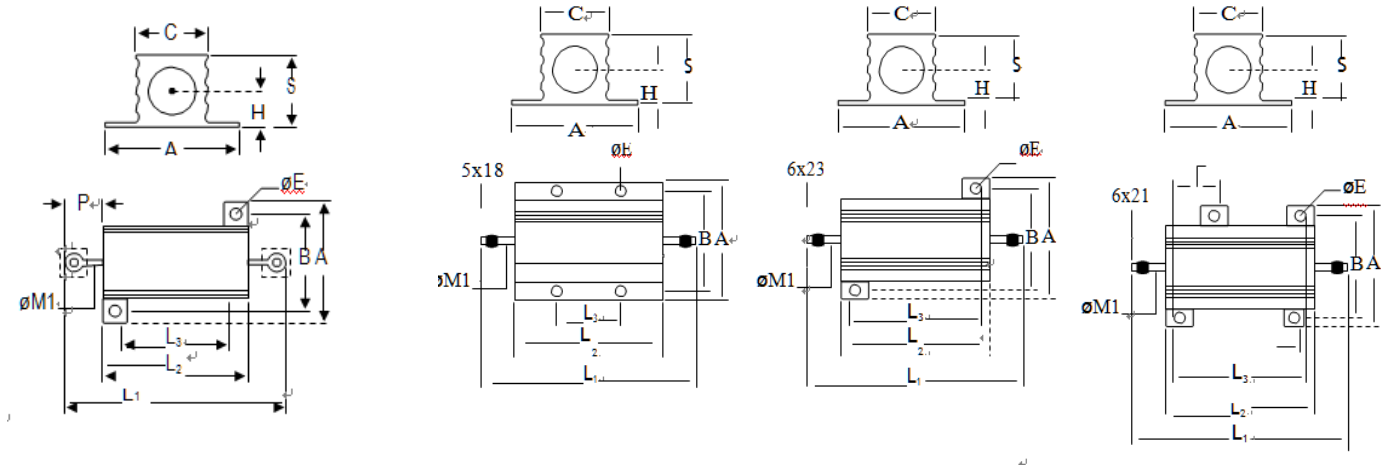
HITANO
ENTERPRISE CORP.®

ALUMINUM HOUSED RESISTORS AH SERIES

Feature

- Extremely stable capability.
- Super heat dissipation, instant overload capability.
- Instant overload capability
- Standard tolerance: ±1%, ±5% in E-24 series

Dimension



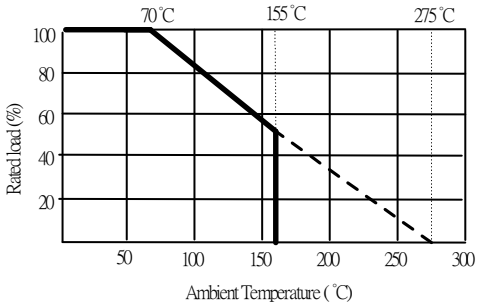
AH10W/25W/50W AH80W AH100W AH250W

General Specification

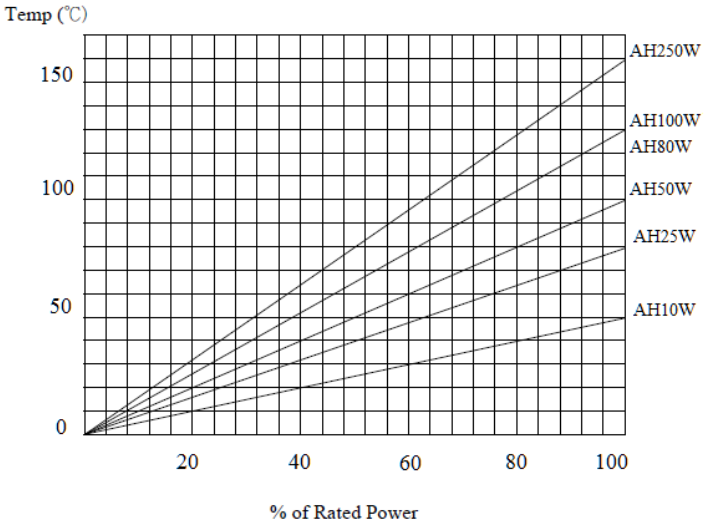
TYPE	DIMENSION											POWER RATING	RESISTANCE RANGE
	L1±2	L2±1	L3±1	A±1	B±1	C±1	E±0.3	S±1	H±0.5	P±2	M1±0.05		
AH10W	32	19	14	20	15.5	10.5	2	10	5	6	2.0	10W	0.1Ω-50KΩ
AH25W	47	27	18	27	19	15	3.2	15.5	7	10	2.0	25W	0.1Ω-50KΩ
AH50W	70	50	39	29	21	15	3.2	15.5	7	10	2.0	50W	0.1Ω-100KΩ
AH80W	102	66	35	47	37	28	4.5	25	12	5x18	5.0	80W	0.1Ω-3KΩ
AH100W	135	89	69	70	48	46	5	44.5	19.5	6x23	6.0	100W	0.1Ω-3KΩ
AH250W	175	114	98	77	64	53	5	55.5	25	6x21	6.0	250W	0.1Ω-3KΩ

* Maximum Working Voltage determined by E=√P*R, Maximum Overload Voltage equals to 2.5 x E

Derating Curve



Surface Temperature Rise (Mounted)



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Characteristics

Item	Requirement	Test Method
Short Time Overload	±2%+0.05Ω	JIS-C-5201-1 5.5 RCWV*2.5 or Max. overload voltage for 5 seconds
Insulation Resistance	＞100MΩ	JIS-C-5201-1 5.6 Apply 100VDC for 1 minute
Endurance	±5%+0.05Ω	JIS-C-5201-1 7.10 70±2℃, Max. RCWV for 1000 hrs with 1.5 hrs “ON” and 0.5hrs “OFF”
Damp Heat with Load	±5%+0.05Ω	JIS-C-5201-1 7.9 40±2℃, 90~95% R.H. RCWV for 1000 hrs with 1.5 hrs “ON” and 0.5hrs “OFF”
Solderability	90% min. Coverage	JIS-C-5201-1 6.5 235±5°C for 3 seconds
Dielectric Withstanding Voltage	1000V	JIS-C-5201-1 5.7 Apply Max. Overload Voltage for 1 minute
Temperature Coefficient	±200PPM/℃ (50ppm, 100ppm is available)	Resistance value at room temperature and room Temperature+100°C
Resistance To Solvent	No deterioration of coatings and markings	JIS-C-5201-1 6.9 Trichroethane for 1 min. with ultrasonic
Shelf Life	ΔR=±0.1%	12 months at room temperature 25±3°C, 80%RH Max.

***Storage Temperature : 25±3℃; Humidity＜80%RH**

Part Numbering

AH	50W	J	-	100R
↓	↓	↓		↓
Type	Power	Tol.		Resistance
	10W	F=±1%		0R1 = 0.1Ω
	25W	J=±5%		10R = 10Ω
	50W			1K2R = 1.2KΩ
	80W			
	100W			
	250W			