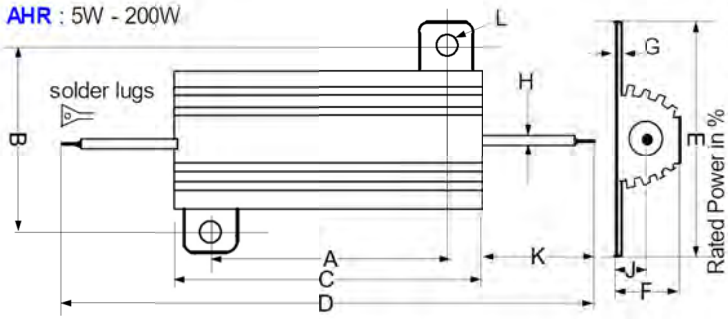
Aluminium Housed Resistor - AHR series

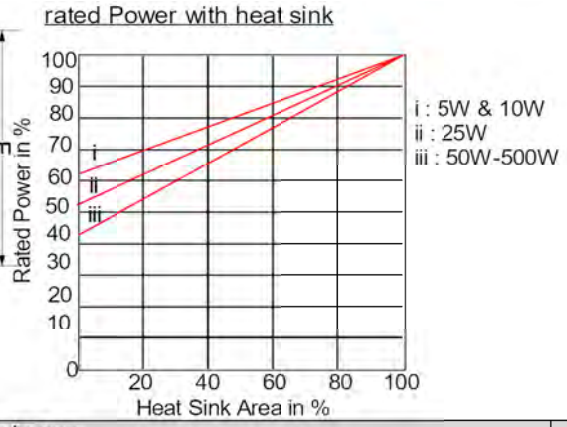
Also known as Aluminium Chassis Mounted Wire Wound Resistors

- **Application** : Braking Resistor, Dumping Resistor for motor control, Rush Current Protection, Gate Resistor, Snubber Resistors
- Aluminium housed resistors are wound with nickel copper or nickel chromium wire on ceramic core fitted with end caps. The winded assembly is then encapsulated in an anodized Heat sink using high temperature moulding compound.
- Low Inductance type is available – **AHRN**
- Support pulse current applications
- Resistance range : 0.01 ohm - 100k ohm
- It is low cost, light weight and compact

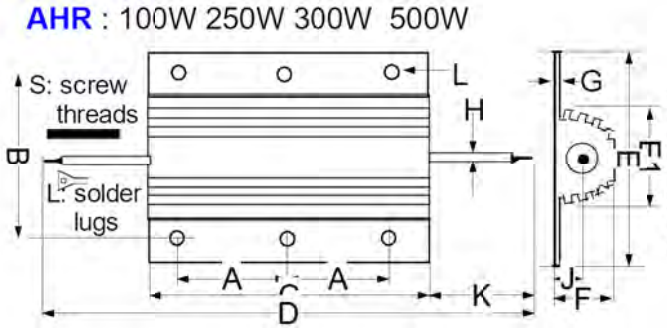
Electrical Specifications :

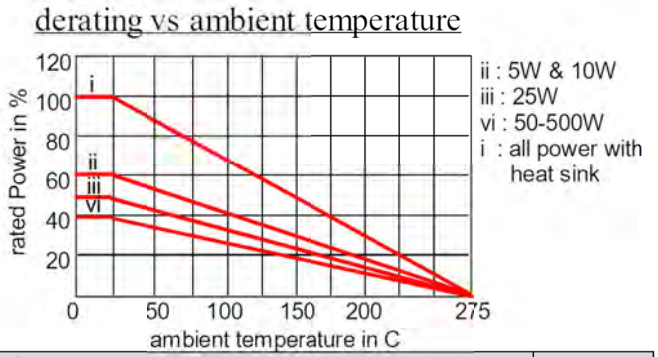
Rated Power	5Watts to 500Watts
Terminals	Soldering Lugs : 5 – 50W; Screw Threads : 75 – 500W
Temperature Coefficient	+/-20ppm/C, +/-50ppm/C, +/-100ppm/C, +/-200ppm/C, +/-250ppm/C,
Tolerance	+/-0.1%, +/-0.5%, +/-1%, +/-5%, +/-10%, -0/+5%, -0/+10%
Dielectric Voltage	1000Vac : 5 – 25W, 1500Vac : 50 – 500W
Operating Temperature	-55 to 250C
Overload – short time	5 time of rated power in 5 seconds
Derating	Derating is needed to reduce chassis mounted area and for high ambient temperatures. Derate to zero Power Linearly at 250C ambient. Derating necessary for unmounted resistors at ambient temperatures of 25C, 5W & 10W - 40%, 25W-50% 50W & above 60%.





Rated Power	Dimensions in mm											Weight gram
	A +/- 0.2	B +/-0.2	C +/-0.2	D+/-4	E +/-0.5	F +/-0.4	G +/-0.2	H +/-0.1	J +/-0.5	K +/-2	L +/-0.2	
5W	11.2	12.5	15.2	28.5	16.5	8.0	1.7	1.2	3.8	7.0	2.2	3
10W	14.3	15.8	19.5	35.0	20.3	10.0	1.9	2.0	4.2	8.0	2.2	11
25W	18.3	19.8	27.5	49.0	27.4	14.0	2.2	2.0	6.0	11.0	3.2	18
50W	40.0	21.5	50.0	72.0	29.2	15.5	2.2	2.0	6.6	13.0	3.2	30





Rated Power	Dimensions in mm												Weight gram
	A +/-0.5	B +/- 0.5	C +/-1	D+/-4	E +/-1	E1 +/- 0.5	F +/-0.5	G +/- 0.2	H +/- 0.2	J +/-0.3	K +/-2	L +/-0.3	
75W	23.5	38.0	65.5	105	48	27	26	3.3	2.8	11.5	20	4.2	90
100W	35.5	38.0	98.0	138	48	27	26	3.3	2.8	11.5	20	4.2	160
150W	52.0	38.0	135.0	175	48	27	26	3.3	2.8	11.5	20	4.2	240
200W	70.0	38.0	165.0	205	48	27	26	3.3	2.8	11.5	20	4.2	420
250W	45.5	58.0	112.0	152	73	46.5	45	5.0	6.0	21.0	20	5.3	480
300W	51.5	58.0	130.0	170	73	46.5	45	5.0	6.0	21.0	20	5.3	580
500W	87.0	58.0	204.0	244	73	46.5	45	5.0	6.0	21.0	20	5.3	970

Part Number :

Series + Rated Power + Resistance Value (ohm) + Resistance Tolerance + Terminals + Drawing Number

AHR	5 - 50W	0.1 ohm	= R1	F = +/-1% G= +/-2%	S : screw threads
	75 - 500W	1 ohm	= 1R	J = +/-5% K= +/-10%	L : solder lugs
		15 ohm	= 15R	R= -0/+5% T= -0/+10%	W : electrical wires