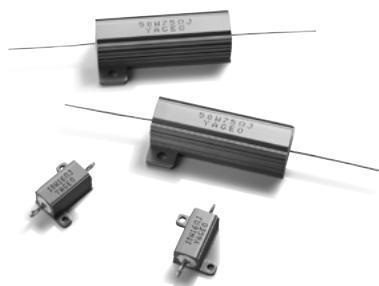


Aluminum Housed Resistors

Power Wirewound Type

Lug / Threaded Style [AHA Series]
Straight Leadwire Style [AHP Series]

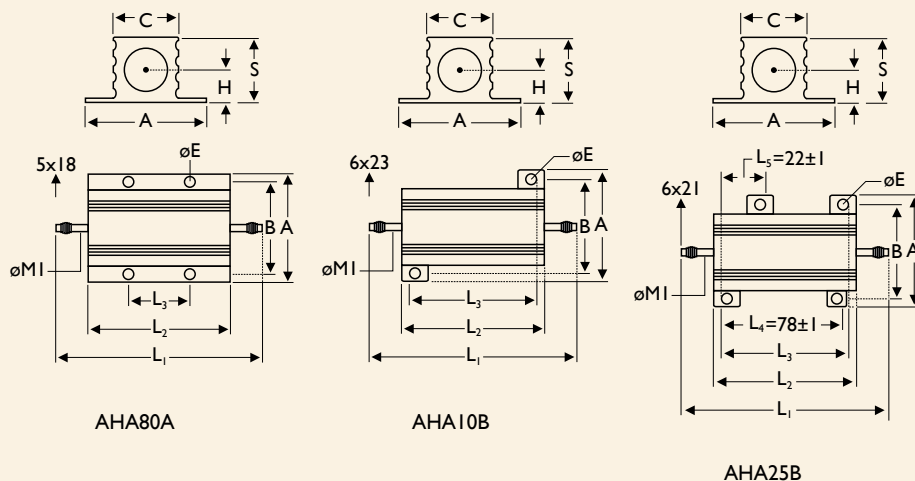
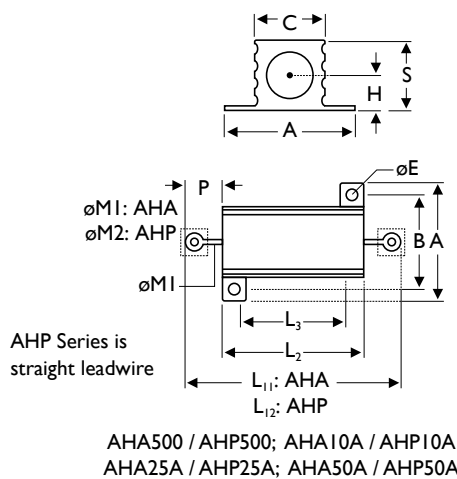


FEATURES

Power Rating	5W, 10W, 25W, 50W, 80W, 100W, 250W
Resistance Tolerance	$\pm 0.25\%$, $\pm 0.5\%$, $\pm 1\%$, $\pm 5\%$, $\pm 10\%$
T.C.R.	$\pm 50\text{ppm}/^{\circ}\text{C}$, $\pm 100\text{ppm}/^{\circ}\text{C}$, $\pm 200\text{ppm}/^{\circ}\text{C}$

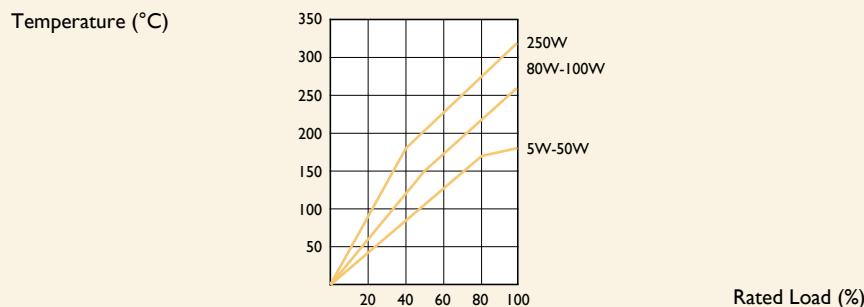
DIMENSIONS

Unit: mm



STYLE	DIMENSION													
Normal	L11	L12	L2	L3	A	B	C	ØE	S	H	P	M1	M2	
AHA500/AHP500	28.6±1.5	71.2±1.5	15.2±0.5	11.5±0.5	16.4±0.5	12.5±0.5	8.5±0.5	2.4±0.3	8.1±1.0	3.8±1.0	6.7±1.0	1.5±0.05	0.8±0.05	
AHA10A/AHP10A	34.9±1.5	75.0±1.5	19.0±0.5	14.2±0.5	20.3±0.5	15.9±0.5	10.7±0.5	2.4±0.3	9.9±1.0	4.2±1.0	7.95±1.0	2.0±0.05	0.8±0.05	
AHA25A/AHP25A	49.2±1.5	80.0±1.5	27.0±0.5	18.2±0.5	27.4±0.5	19.8±0.5	14.0±0.5	3.2±0.3	13.9±1.0	5.9±1.0	11.1±1.0	2.0±0.05	0.8±0.05	
AHA50A/AHP50A	70.6±1.5	106±1.5	50.0±0.5	40.0±0.5	29.0±0.5	21.4±0.5	16.0±0.5	3.2±0.3	15.5±1.0	6.6±1.0	10.3±1.0	2.0±0.05	0.8±0.05	
AHA80A	102±2.0	-	66.0±1.0	35.0±0.5	47.0±0.5	37.0±0.5	28.0±0.5	4.5±0.3	25.0±1.0	12.0±1.0	-	2.0±0.05	-	
AHA10B	139±2.0	-	89.0±1.0	70.0±0.5	71.2±0.5	57.2±0.5	46.0±0.8	4.8±0.3	44.6±1.0	19.6±1.0	-	5.0±0.05	-	
AHA25B	177±2.0	-	144.4±1.0	76.2±0.5	76.0±0.5	64.0±0.5	54.0±0.8	4.8±0.3	55.6±1.0	24.4±1.0	-	6.0±0.05	-	

TEMPERATURE RISE



ELECTRICAL CHARACTERISTICS

STYLE	AHA500 AHP500	AHA10A AHP10A	AHA25A AHP25A	AHA50A AHP50A	AHA80A	AHA10B	AHA25B
Power Rating on std. heatsink at 25°C	5W	10W	25W	50W	80W	100W	250W
Voltage Proof on Insulation	1,000V			2,000V		4,500V	
Resistance Range	0.1Ω - 1KΩ	0.1Ω - 1.5KΩ	0.1Ω - 10KΩ	0.1Ω - 33KΩ	0.1Ω - 39KΩ	0.1Ω - 51KΩ	
Operating Temp. Range	-55°C to +250°C						
Temperature Coefficient	±50ppm/°C, ±100ppm/°C, ±200ppm/°C						

Note: Special value is available on request.

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD		APPRAISE
Short Time Overload	IEC 60115-1 4.13	5 times of rated power for 5 sec.	±1.0%+0.05Ω
Voltage Proof on Insulation	IEC 60115-1 4.7	in V-block for 60 Sec., test voltage by type	By type
Temperature Coefficient	IEC 60115-1 4.8	-55°C to +250°C	By type
Insulation Resistance	IEC 60115-1 4.6	in V-block for 60 Sec.	>100MΩ
Solderability	IEC 60115-1 4.17	235±5°C for 3±0.5 Sec.	95% Min. coverage
Solvent Resistance of Marking	IEC 60115-1 4.30	IPA for 5±0.5 Min. with ultrasonic	No deterioration of coatings and markings
Robustness of Terminations	IEC 60115-1 4.16	Pull test (30 Sec. Min): 5W: 1kg, 10W: 2.3kg, 25 - 50W: 4.5kg Torque test (5 - 15 Sec): 80W: 2N, 100W: 2.7N, 250W: 3.7N	±0.2%+0.05Ω
Damp Heat Steady State	IEC 60115-1 4.24	40±2°C, 90-95% RH for 56 days, loaded with 0.1 times RCWV	±5.0%+0.05Ω
Endurance at 70°C	IEC 60115-1 4.25	70±2°C at RCWV for 1,000 Hr. (1.5 Hr. on, 0.5 Hr. off)	±5.0%+0.05Ω
Temperature Cycling	IEC 60115-1 4.19	-55°C ⇌ Room Temp. ⇌ +155°C ⇌ Room Temp. (5 cycles)	±1.0%+0.05Ω
Resistance to Soldering Heat	IEC 60115-1 4.18	260±3°C for 10±1 Sec., immersed to a point 3±0.5mm from the body	±1.0%+0.05Ω

Note: Rated Continuous Working Voltage (RCWV) = $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$ or Max. working voltage listed above, whichever less.

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