



ALUMINUM HOUSED. WIREWOUND RESISTORS

PRECISION POWR RESISTORS Aluminum Housed (Chassis Mount)

FEATURE:

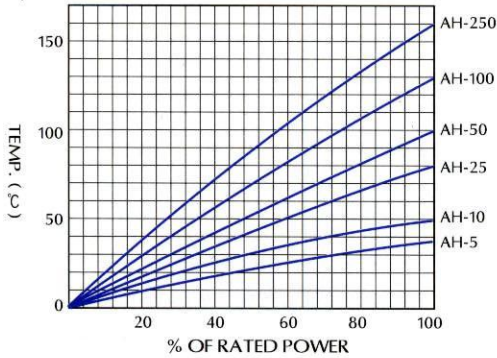
- High power rating, small size and ultra precision.
- Standard winding & non-inductive winding types.
- High stability, strong construction.

GENERAL SPEC:

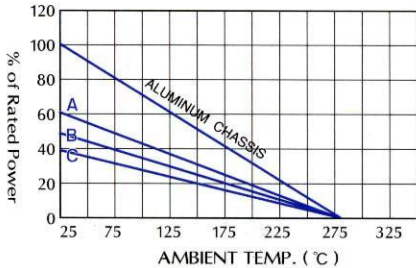
Wattage Range: 6 styles to choose ranging from 5 to 250 watts.
 Resistance Tolerance: 10%, 5%, 3%, 2%, 1%, 0.5%
 Operating Temperature Range: -55°C to +275°C
 Dielectric Strength: AH-5 AH-10 AH-25 1000V AH-50 1500V AH-100 AH-250 2500V

Temperature Coefficient of Resistance: Standard T.C.:
 ± 30PPM/°C = 10 Ω and up, ± 50PPM/°C = 1 to 9.99 Ω
 ± 90PPM/°C = below 1 Ω

SURFACE TEMPERATURE VERSUS POWER LOAD (on Chassis)



DERATING

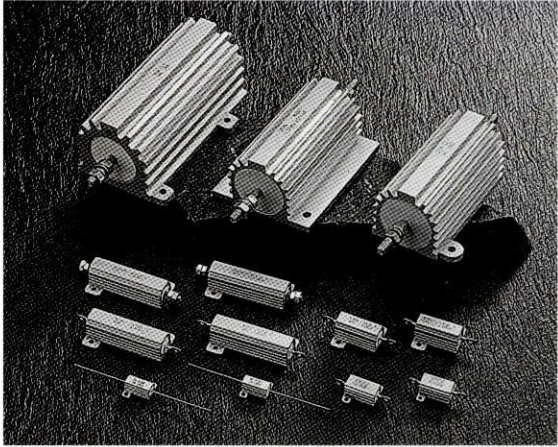


Derating is required to reduce chassis mounting area and for high ambient temperatures. Curves A=5 & 10 watt units, unmounted. B=25 watt units, unmounted. C=50, 100 & 250 watt units, unmounted.

HOW TO ORDER

AH50 20 Ω D
 Type Resistance Tolerance

Resistance Tolerance	
D	± 0.5%
F	± 1%
G	± 2%
H	± 3%
J	± 5%
K	± 10%



STANDARD ELECTRICAL SPEC.

Type	MIL Style	Wattage Rating	Resistance Range (Ω)		MAX Working (V)		(g) MAX Weight	proper heat sink (aluminum chassis)
			AH Inductive	AHN Non-inductive	AH	AHN		
AH-5	RE60	5	0.05 ~ 3K	0.1 ~ 1 K	120	70	3	152X102X51X1t
AH-10	RE65	10	0.02 ~ 6K	0.03 ~ 2.3K	245	180	7	152X102X51X1t
AH-25	RE70	25	0.012 ~ 15K	0.02 ~ 5.5K	500	300	15	178X127X51X1t
AH-50	RE75	50	0.01 ~ 40K	0.02 ~ 12 K	1300	600	33	305X305X1.5t
AH-100	RE77	100	0.4 ~ 50K	0.12 ~ 25 K	1900	1340	450	305X305X3t
AH-250	RE80	250	0.6 ~ 80K	0.15 ~ 40 K	2500	1750	800	305X305X3t

PERFORMANCE

Parameters	Test Conditions	Specifications
Short Time Over Load	5X wattage rating-5sec.	ΔR±(0.5%+0.05Ω) MAX
Moisture Resistance	temp 40°C moisture 95% DC 100v500Hr	ΔR±(0.5%+0.05Ω) MAX
Moisture Load Life	temp 40°C moisture 95% 1/10 X wattage rating (1.5Hr ON-0.5Hr OFF) - Repeat 1000Hr	ΔR±(0.5%+0.05Ω) MAX
Load Life	Load Rating (chassis mounted) (1.5Hr ON 0.5Hr OFF) Repeat 1000Hr	ΔR±(1.5%+0.05Ω) MAX
Vibration	10c/s-50c/s-10c/s (1min)-2Hr each of paralleled and right angle	ΔR±(0.2%+0.05Ω) MAX
Heat Resistance	275°C 2Hr	ΔR±(0.5%+0.05Ω) MAX
Dielectric Strength	AH-5 AH-10 AH-25 1000V AH-50 1500V AH-100 AH-250 2500V	ΔR±(0.2%+0.05Ω) MAX
Insulation Resistance	Under the same test condition of Dielectric Strength, Load DC500V and measure the Insulation R.	1000M Ω min
Terminal Strength	(1) Pu11 Test (30 sec Min) AH-5 1kg, AH-10 2.3kg, AH-25, AH-50 4.5kg (2) Torque Test (5-15sec) AH-100 27kg-cm, AH-250 36kg-cm	ΔR±(0.2%+0.05Ω) MAX

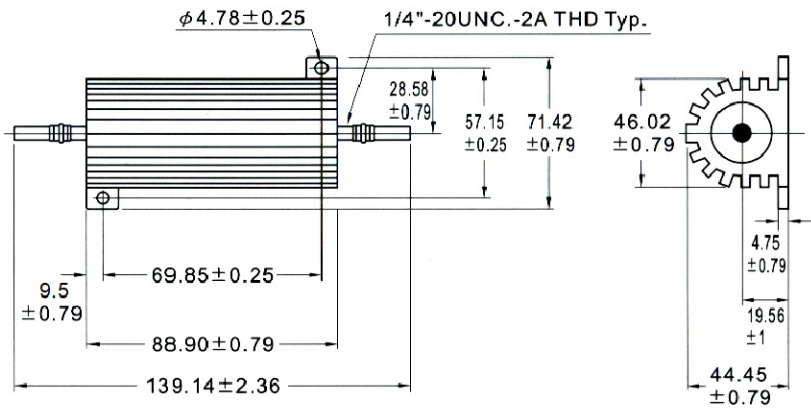
Materials:

- Encapsulant: Silicone
- End caps: Stainless steel
- Core: Ceramic steatite or alumina
- Housing: Aluminum with hard anodic coating
- Element: Copper-nickel alloy, nickel-chrome alloy or manganese copper
- Standard Terminals: 5~50W Tinned terminals
100~250W Threaded terminals

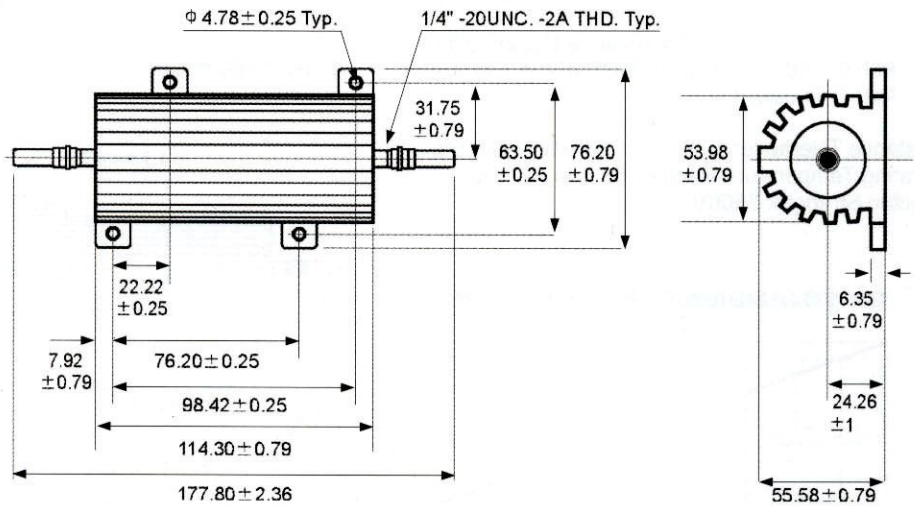


PRECISION POWER RESISTORS DIMENSIONS – 5~50W. 100W. 250W

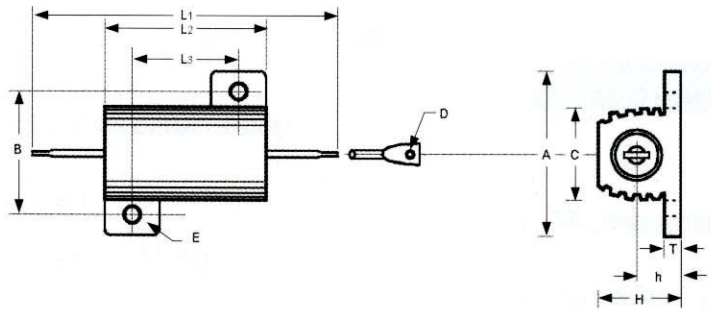
DIMENSIONS
AH-100
AHN-100



DIMENSIONS
AH-250
AHN-250



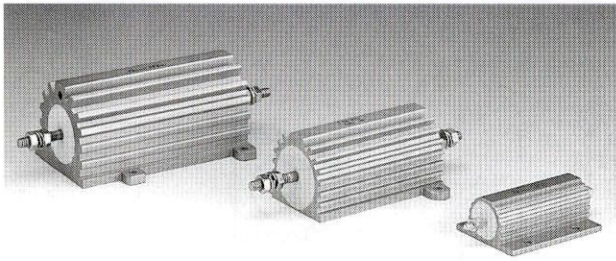
DIMENSIONS
AH-5 AH-10
AHN-5 AHN-10
AH-25 AH-50
AHN-25 AHN-50



TYPE	Dimensions (mm)										
	L1	L2 ±1	L3 ±0.8	A ±1	B ±0.8	C ±1	D ±0.1	E ±0.3	H ±1	h ±1	T ±0.2
AH-5 AHN-5	28.6	15.3	11.3	16.5	12.4	8.5	1.3	2.4	8.2	4	1.6
AH-10 AHN-10	35	19	14.3	20.4	15.9	11	2.2	2.4	10	5	2
AH-25 AHN-25	49	27	18.3	27.2	19.8	14	2.2	3.2	14	6.5	2
AH-50 AHN-50	70	50	39.7	29.2	21.5	16	2.2	3.2	16	7	2



TYPE AS INCREASED POWER ALUMINUM HOUSED WIREWOUND RESISTORS

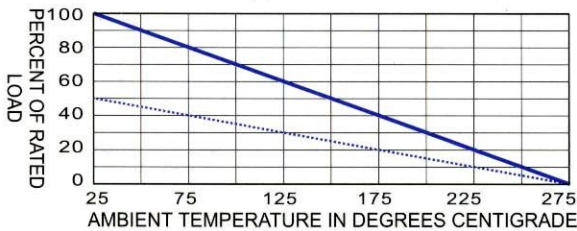


**INCREASED POWER!
PRECISION POWER RESISTORS
Aluminum Housed(Chassis Mount)**

GENERAL SPECS.

- Temperature Coefficient of Resistance: Standard T.C:
 $\pm 30\text{PRM}/^{\circ}\text{C} = 10\Omega$ and up, $\pm 50\text{PRM}/^{\circ}\text{C} = 1$ to 9.99Ω
 $\pm 90\text{PRM}/^{\circ}\text{C} =$ below 1Ω
- Resistance Tolerance: 10%, 5%, 3%, 2%, 1%, 0.5%
- Operating Temperature Range: -55% to $+275^{\circ}\text{C}$
- Dielectric Strength: 2500V

WATTAGE VS. AMBIENT TEMP. DERATING



— MOUNTED ON ALUMINUM CHASSIS
 UN-MOUNTED
 (ALUMINUM CHASSIS 305X305X3T)

HOW TO ORDER

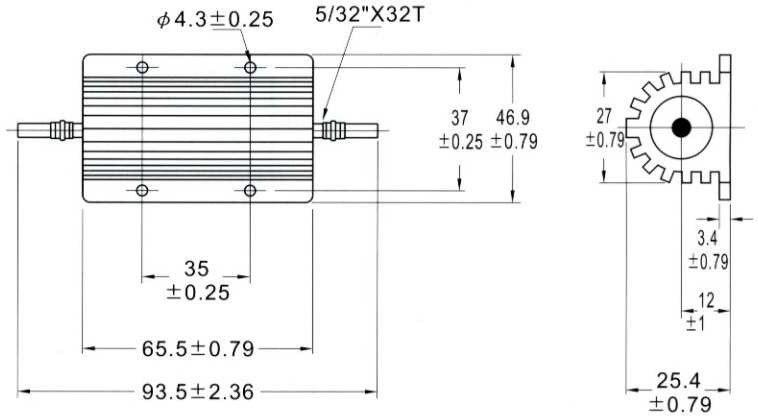
AS 100W TYPE N 80Ω RESISTANCE F TOLERANCE

In case of Non-inductive type, use the N

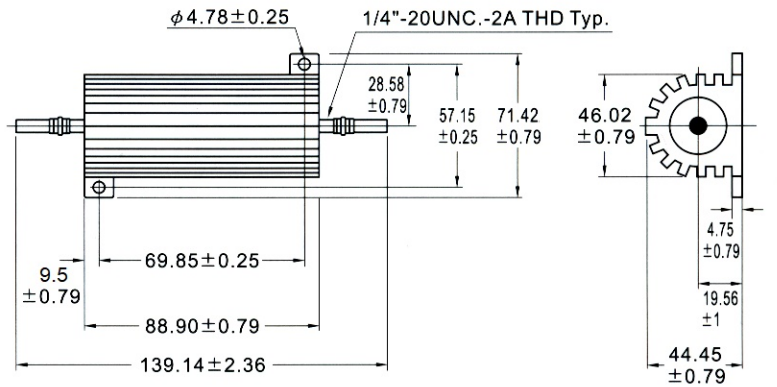
RESISTANCE TOLERANCE

D	±0.5%
F	±1%
G	±2%
H	±3%
J	±5%
K	±10%

TYPE: AS100W DIMENSIONS(MM)



TYPE: AS200W DIMENSIONS(MM)



TYPE: AS300W DIMENSIONS(MM)

