鋁殼型繞線電阻器
ALUMINUM HOUSED WIRE WOUND RESISTORS

AH

PRECISION POWR RESISTORS
Aluminum Housed (Chassis Mount)



FEATURE:
- Highpower rating, smallsizeandultraprecision
- Standardwinding&non-inductivewindingtypes.
- Highstability, strongconstruction.

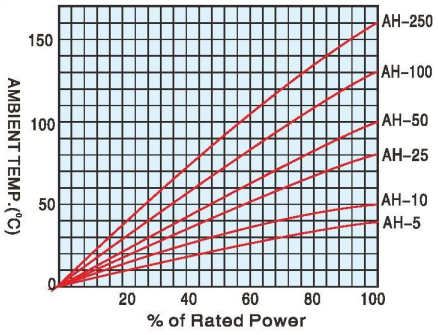
GENERAL SPEC:
WattageRange:6stylestochooserangingfrom 5to250watts.
ResistanceTlolerance:10%, 5%, 3%, 2%, 1%, , 0.5%
OperatingTemperatureRange:-55%to+275℃
DielectricStrength:AH-5AH-10AH-251000VAH-50 1500VAH-100AH-2502500V

TemperatureCoefficientofResistance:StandardT.C.: ±20PPM/℃~±250PPM/℃

STANDARD ELECTRICAL SPEC.

Type	MIL Style	Wartage Rating	Resistance Range (Ω) AN Inauctive	AHN Norrductie	MAX Wcring (V) AH	AHN	(g) MAX Weight	Properheatsink (aluminumctassis)
AH- 5	RE60	5	0.05 -3k	0.1 -1 k	120	70	3	152X102X51Xlt
AH-10	RE65	10	0.02 -6k	0.03-2.3k	245	180	7	152X102X51Xlt
AH-25	RE70	25	0.012-15k	0.02-5.5k	500	300	15	178X127X51Xlt
AH-50	RE75	50	0.01 -40k	0.02-12 k	1300	500	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

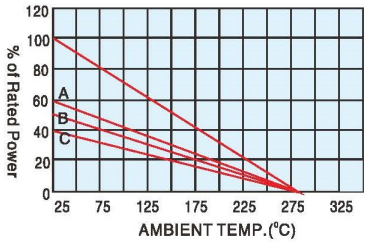
SURFACE TEMPERATURE VERSUS POWER LOAD (on Chassls)



PERFORMANCE

Parameters	Test Conaitions	Specifications
ShortTime OrerLoed	5Xmattagerating•5sec.	△R±(0.5X+0.05Ω) MAX
MOisture Resistance	tenp40℃ moisture95:0C100v5COHr	△R±(0.5X+0.05Ω) MAX
MOisture LoadLife	tenp40℃ moisture95:1/10Xwattagefating (1.5HrON-0.5HrCFF)•Repeat1000Hr	△R±(0.5X+0.05Ω) MAX
LoadLife	LoadRating(Chassismounted) (1.5HrON0.5HrOFF)Repeat1C00Hr	△R±(1.5X+0.05Ω) MAX
V10ratton	10c/s-50c/s-10c/s(1min)-2Hreachof Paralleledandrightangle	△R±(0.5X+0.05Ω) MAX
Heat Resistance	275℃ 2Hr	△R±(0.5X+0.05Ω) MAX
Dielectric Strength	AH-5 AH-10 AH-25 1000V AH-50 1500V AH-100 AH-250 2500V	△R±(0.2X+0.05Ω) MAX
Insulation Resistance		100 M ohm
Ternlna1 Strength	(1)PullTest(30secNin) AH-51kg.AH-102.3kg.AH-25.AH-504.5kg (2)TorqueTest(5~15sec) AH-10027kg•cm.AH-25036kg-cm	△R±(0.2X+0.05Ω) MAX

DERATING



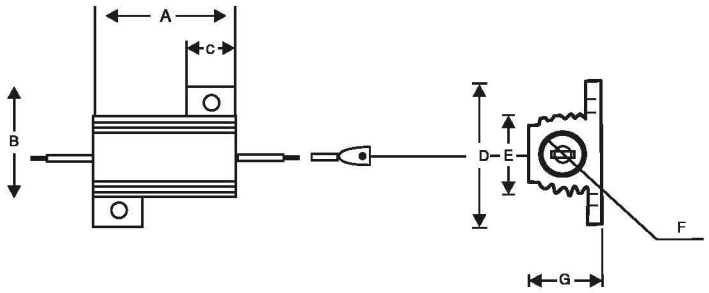
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A-S&10watluris.unmourdcd.
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C-50.100&250watlunas. unmouncd

Materials:
Encapsulant:Silicone
Endcaps:Stainlesssteel
Core:Ceramicsteatiteoralumina
Housing:Aluminumwithhardanodiccoating
Element:Copper-nickelalloy,nickel-chromealloyor manganesecopper
StandardTenminals:5~50WTinnedterminals 100~250WThreadedterminals

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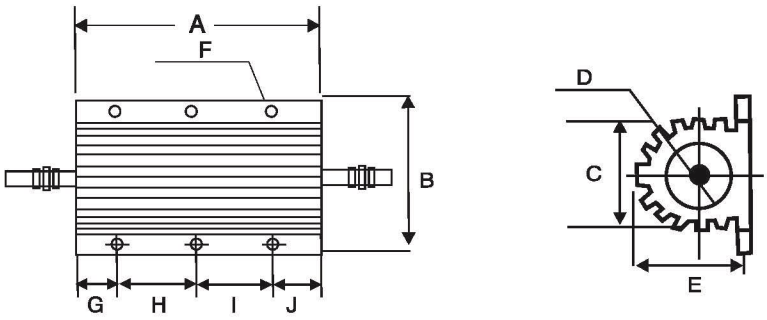
AH

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



TYPE	DIMENSIONS (mm)						
	A±1	B±0.5	C±0.5	D±1	E±0.5	F	G
AH-5 AHN-5	15	13	4	17	9.5	6	8
AH-10 AHN-10	19	17	6	23	10.5	7.5	10.5
AH-25 AHN-25	27	23	9	28	15	10	15
AH-50 AHN-50	50	23	10.5	29.5	15	11	15.5

DIMENSIONS
AH-75-500
AHN-75-500



TYPE	DIMENSIONS (mm)									
	A±1	B±1	C±0.5	D±0.5	E±0.5	F	G	H	I	J
AH-75 AHN-75	60	47	23	17	26	4	16	TWO HOLES		16
AH-100 AHN-100	98	48	22	17	26	6	14	35	35	14
AH-150 AHN-150	136	48	22	17	26	6	12	56	56	12
AH-200 AHN-200	155	48	22	17	26	6	12.5	65	65	12.5
AH-250 AHN-250	170	48	22	17	26	6	20	65	65	20
AH-300 AHN-300	128	72	45	32	41	6	12	52	52	12
AH-500 AHN-500	200	72	45	32	41	6	12	52	52	12

AH

功率型铝外壳固定电阻器 **Power type aluminum shell fixed resistor**

技术说明 Technical Specifications

	单位 unit	电阻特性 Resistance characteristics
温度系数 Temperature coefficients	ppm/℃	0.1Ω ~ 0.99Ω:±50ppm/℃、 ± 100ppm/℃ > 1Ω;±200ppm/℃、 ± 50ppm/℃、 ± 100ppm/℃
绝缘电压 Insulation voltage	V_{AC}	1000 V_{AC}; 1500 V_{AC} ; 3000 V_{AC}
短期过载 short time overload	-	5 倍额定功率 ， 5 秒钟 (5xrated power for 5seconds)
最大工作电压 maximum working voltage	V	√ P × R
绝缘电阻 Insulation resistance	Ω	After temperature testing: ≥ 100M Ω
引出端强度 Terminal tensile strength	N	22.2N; 44.4N
可焊性 solderability	-	符合 MIL-PRF-18546 标准, 符合 ANSI. J-STD-002 标准 Compliant with MIL-PRF-18546 standard and ANSI J-STD-002 standard
温度范围 Temperature range	℃	-55/+250

性能试验 Performance Parameters

试验项目 Pilot projects	实验条件 experimental condition	实验要求 Requirements
热冲击 thermal shock	额定电压下工作直至热稳定再放置 -55 度下保持 15分钟 Work at rated voltage until thermal stability, then place at -55 degrees Celsius for 15 minutes	△R ≤±(0.5%R +0.05Ω)
短期过载 short time overload	5倍额定功率5秒钟 5 times rated power for 5 seconds	△R ≤±(0.5%R +0.05Ω)
绝缘电压 Insulation voltage	1000VAC; 2000VAC; 4500VAC	△R ≤±(0.2%R +0.05Ω)
温度 Temperature	250℃, 2 小时	△R ≤±(0.5%R +0.05Ω)
耐潮湿 Moisture proof		△R ≤±(1.0%R +0.05Ω)
耐脉冲 Pulse resistant	100g, 6 毫秒, 10 times	△R ≤±(0.2%R +0.05Ω)
高频率振动 Vibration high frequency	频率 10 ~ 200HZ,峰值 20g,2 个方向,时间为 6 个小时 Frequency 10~200HZ, peak 20g, 2 directions, time 6 hours	△R ≤±(0.2%R +0.05Ω)
长期寿命 Load life	额定功率,25℃下工作 1000 个小时,1.5 小时通,0.5 小时断 Rated power, working for 1000 hours at 25 ℃, with 1.5 hours on and 0.5 hours off	△R ≤±(1.0%R +0.05Ω)
引出端强度 Terminal tensile strength	拉力: 22.2N, 44.4N 时间:30S 扭矩:2.7N· m. 3.6N· m Tensile force: 22.2N, 44.4N Time: 30S Torque: 2.7N · m 3.6N · m	△R ≤±(0.2%R +0.05Ω)