



Type UAL Aluminum Housed Power Resistors

- Power Rating 5 to 250 Watts
- Resistances from 0.01 to 250K Ohms
- Low TCR: ± 20 ppm/ $^{\circ}\text{C}$ Standard
- High Stability: As low as 0.001% / year
- All Welded Construction
- Four Terminal Versions Available



Riedon's aluminum housed wirewound power resistors use centerless ground ceramic cores for heat distribution. Molded in a special high temperature material and mounted in an extruded aluminum finned housing, these designs provide optimum power dissipation and reliability. Leads are tinned copperweld for solderability.

SPECIFICATIONS

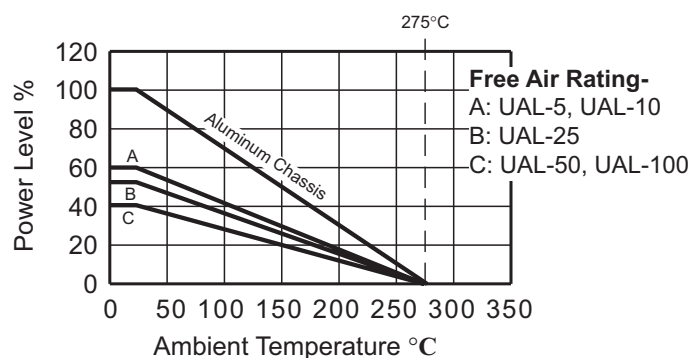
Standard Type	MIL-R-39009/ MIL-R-18546	Power Rating (W) Riedon	MIL	Resistance (Ω) Min.	Max.	Working Voltage
UAL-5	RER-60 / RE-60	7.5	5	0.01	22K	160
UAL-10	RER-65 / RE-65	12.5	10	0.01	47K	265
UAL-25	RER-70 / RE-70	25	20	0.01	90K	550
UAL-50	RER-75 / RE-75	50	30	0.01	250K	1250
UAL-100	RER-77 / RE-77	100	-	0.01	50K	-
UAL-180	-	180	-	0.01	50K	-
UAL-250	RER-80 / RE-80	250	-	0.01	50K	-

Tolerances -	$\pm 0.01\%$ to $\pm 5\%$ (Standard)
Temperature Coefficient -	1 to 10Ω , $\pm 50\text{ppm}/^{\circ}\text{C}$ $>10\Omega$, $\pm 20\text{ppm}/^{\circ}\text{C}$ $<1\Omega$, (Call factory)
Dielectric Strength -	1000 VAC; UAL-5, UAL-10 2500 VAC; All others
Operating Temperature -	-55°C to $+275^{\circ}\text{C}$

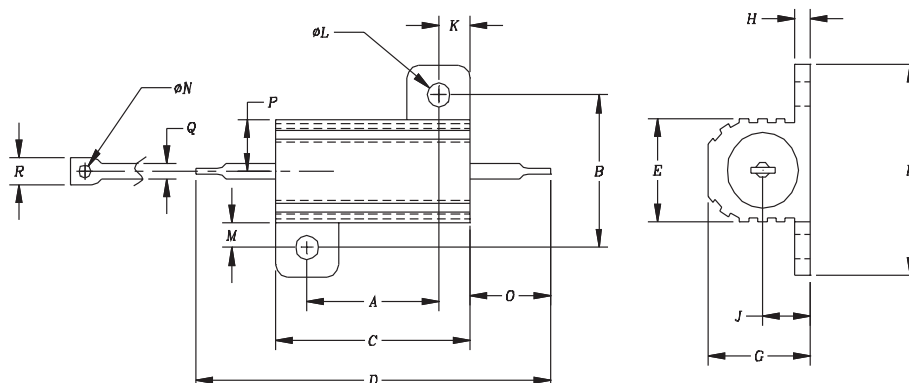
Heat Sink Requirements:

UAL-5, 10	4" x 6" x 2" x 0.040" Aluminum Heat Sink
UAL-25, 50	5" x 7" x 2" x 0.040" Aluminum Heat Sink
UAL-100, 180, 250	12" x 12" x 0.125" Aluminum Plate

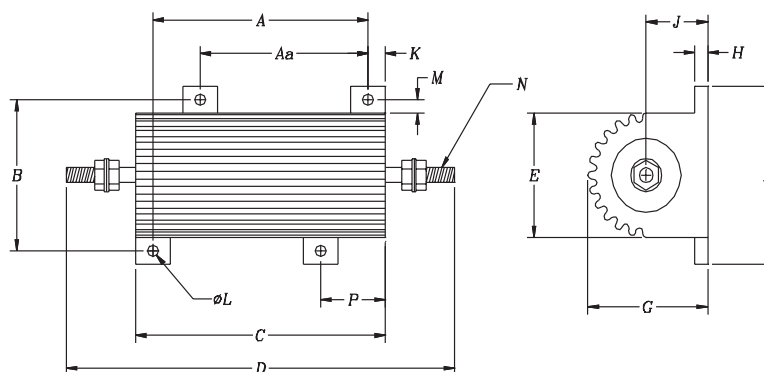
Power Derating Curve



DIMENSIONS



Type	A ±.005	B ±.005	C ±.031	D ±.062	E ±.015	F ±.015	G ±.015	H ±.010	J ±.010	K ±.010	L ±.005	M ±.015	N ±.005	O ±.062	P ±.031	Q AWG	R ±.031
UAL-5	.444	.490	.600	1.125	.334	.646	.320	.065	.140	.078	.093	.078	.050	.266	.245	16	.085
UAL-10	.562	.625	.750	1.375	.430	.800	.400	.075	.190	.093	.093	.102	.086	.312	.312	12	.140
UAL-25	.719	.781	1.062	1.938	.530	1.08	.560	.085	.260	.172	.125	.125	.086	.438	.391	12	.140
UAL-50	1.563	.844	1.968	2.781	.615	1.140	.615	.085	.300	.196	.125	.125	.086	.438	.422	12	.140
SP1219A	Specifications and dimensions same as UAL-50 except 12AWG flexible leads and 1000V working voltage.																



Type	A ±.005	Aa ±.005	B ±.005	C ±.031	D ±.062	E ±.015	F ±.015	G ±.015	H ±.010	J ±.015	K ±.015	L ±.005	M ±.015	N ±.015	P ±.015	Mtg. Screw
UAL-100	2.750	-	2.250	3.50	5.48	1.80	2.81	1.75	.188	.800	.375	.188	.250	12-24	-	(2) #8
UAL-180	2.750	-	2.500	3.50	5.48	2.13	3.00	2.19	.250	.950	.375	.188	.200	12-24	-	(2) #8
UAL-250	3.875	3.000	2.500	4.50	7.00	2.13	3.00	2.19	.250	1.000	.312	.188	.200	1/4-20	.875	(4) #8

Ordering information:

Part Number - Resistance - Tolerance - TCR

Example: **UAL-50 - 5K - 1 - 20**