

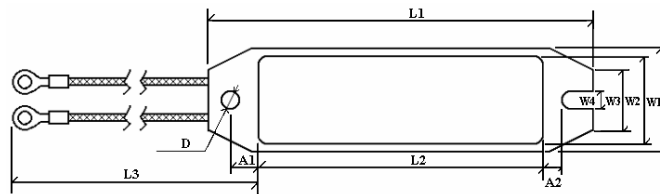
# HIGH POWER WIRE-WOUND RESISTORS

## Features

- **Flameproof** – Safety flameproof construction
- **Exclusive Surge Characteristics** - Wire-wound resistors has excellent characteristics to resist a large current without damage.
- **Uniform Quality** - An exclusive automated process and strict quality control system, combining fine solutions of resistance wires and associated qualified materials resulting to a uniform quality and consistent performance in reliability.



## HAWR

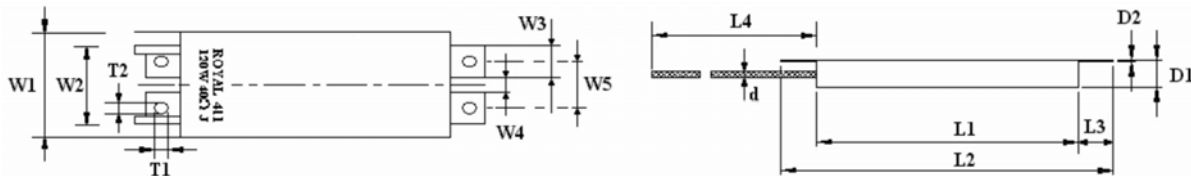


Dimension (mm):

Type	$L_1 \pm 1.0$	$L_2 \pm 1.0$	$L_3 \pm 2.0$	$A_1 \pm 0.5$	$A_2 \pm 0.5$	$W_1 \pm 0.5$	$W_2 \pm 0.2$	$W_3 \pm 0.2$	$W_4 \pm 0.2$	$D \pm 0.2$
HAWR 80W	150	123	300	8	6	34.2	30	16	4.5	4.5
HAWR 220W	230	191	440	14.5	14.5	64.5	56.5	47	4.4	4.4

Resistance range  $\pm 10\% = 4\Omega$  (other value can be supplied on a case to case basis).

## HPWR

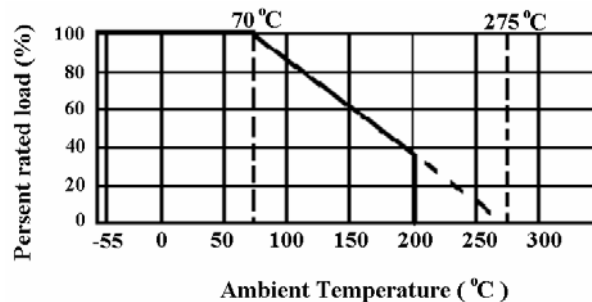


Dimension (mm):

Type	$L_1 \pm 1.0$	$L_2 \pm 1.0$	$L_3 \pm 1.0$	$L_4 \pm 1.0$	$D_1 \pm 1.0$	$D_2 \pm 0.1$	$d \pm 0.2$
HPWR 120W	121	150	15	26	11.45	0.85	3.5
Type	$W_1 \pm 1.0$	$W_2 \pm 1.0$	$W_3 \pm 0.5$	$W_4 \pm 0.5$	$W_5 \pm 0.5$	$T_1 \pm 0.1$	$T_2 \pm 0.1$
HPWR 120W	44	32	13.25	19.25	6	5.85	4.35

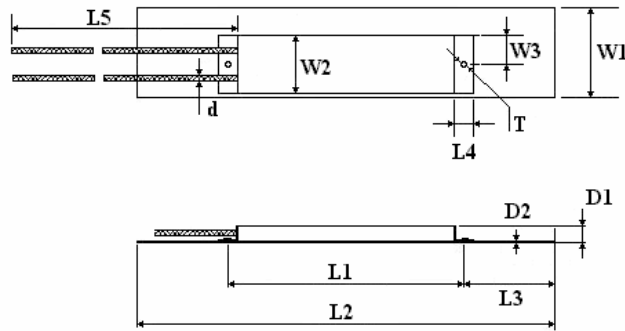
Resistance Range  
 $\pm 5\% = 1\Omega \sim 1K\Omega$

### Derating Curve:



# HIGH POWER WIRE-WOUND RESISTORS

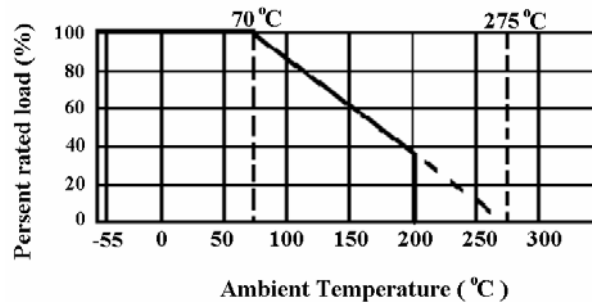
## HMWR



Dimension (mm)

Type	L <sub>1</sub> ±1.0	L <sub>2</sub> ±1.0	L <sub>3</sub> ±2.0	L <sub>4</sub> ±0.5	L <sub>5</sub> ±1.0	D <sub>1</sub> ±1.0	D <sub>2</sub> ±0.1
HMWR 800W	176	310	67	15	39	12	1
Type	W <sub>1</sub> ±0.5	W <sub>2</sub> ±2.0	W <sub>3</sub> ±0.5	T±0.5	d±0.2		
HMWR 800W	67	45	21.5	2.5	3.5	Resistance Range ±5% = 1Ω ~ 600Ω	

Derating Curve:



## Performance Specifications

Temperature coefficient	≤ ±350PPM/°C
Short-time overload	ΔR/R ≤ ±(5.0% + 0.05Ω), with no evidence of mechanical damage.
Dielectric withstanding voltage	No evidence of mechanical damage, arcing or insulation breakdown.
Temperature cycling	ΔR/R ≤ ±(5.0% + 0.05Ω), with no evidence of mechanical damage.
Humidity	ΔR/R ≤ ±(5.0% + 0.05Ω), with no evidence of mechanical damage.
Load life in humidity	ΔR/R ≤ ±(5.0% + 0.05Ω), with no evidence of mechanical damage.
Load life	ΔR/R ≤ ±(5.0% + 0.05Ω), with no evidence of mechanical damage.

\* More details, please see pages 77-78.