



RS Pro SKU From 1852275 to 1852307

ENGLISH

# Datasheet

## RS PRO Low Profile Braking Resistor

### Product details :

This range of high Quality, Aluminium housed Power Resistors designed for direct heat sink attachment.

- High Power density.
- Low Profile.
- Heat Sink mountable for increased power dissipation.
- UL approved cables.
- RoHS Compliant



### Specifications :

Series	Power Rating on Std Heatsink (W)	Power Rating with No Heat Sink (W)	Resistance Range( $\Omega$ )	Standard Heat Sink	
				cm <sup>2</sup>	Thickness
R150	150	75	1 $\Omega$ - 1K $\Omega$	930	3
R250	250	125	1 $\Omega$ - 1.5K $\Omega$	930	3
R300	300	150	1 $\Omega$ - 1.7K $\Omega$	1600	3
R500	500	250	1 $\Omega$ - 3K $\Omega$	1600	3



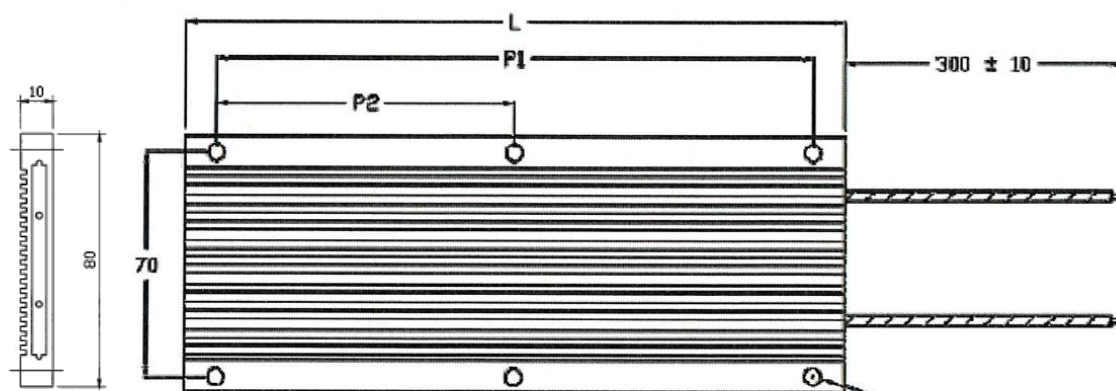
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### Test Specifications :

Characteristics	Condition	Compliance
Tolerance		±5%
Temperature Co- Efficient		<±100PPM/°C
Insulation Resistance	Dry/Normal	>500MΩ
Endurance	1.5Hrs ON, 1.5Hrs OFF for 1000 Hrs @ Room Temperture	ΔR<±1%
Short Term OverLoad	5 x Rated Power for 5 Sec	ΔR<±(1% + 0.05Ω)
Operating Temperture	-25°C to 250°C	
Dielectric Strength	1500VAC rms for 1 minute	No Breakdown or flashover
Power Derating		Linearly from 100% at 25°C to 0 at 260°C

### Dimensions mm:

Series	L	P1	P2
R150	120	100	N/A
R250	180	160	N/A
R300	210	190	95
R500	330	310	155

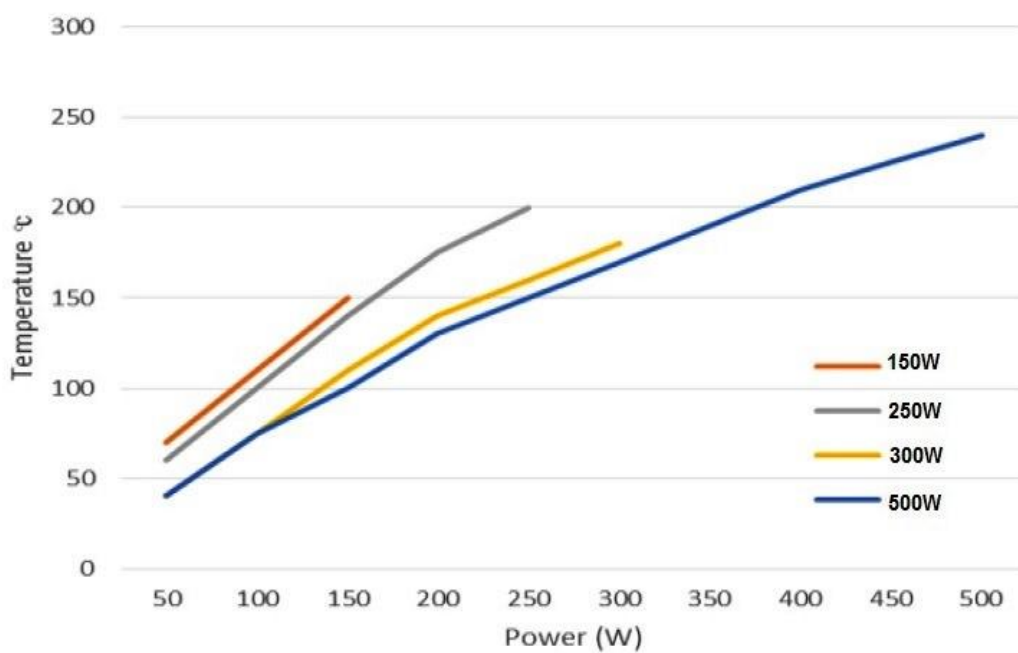


∅5.3 x4 - R150/R250
∅5.3 x6 - BR300/R500



Test Specifications :

Typical Surface Temp Vs Power



Article	Rated Power	Resistance Value
1852275	150	2R2
1852281	150	47R
1852282	250	2R2
1852285	250	6R
1852286	250	8R
1852288	250	47R
1852289	300	2R2
1852293	300	8R
1852294	300	10R
1852295	300	16R
1852297	300	47R
1852298	300	68R
1852299	500	2R2
1852301	500	8R
1852302	500	10R
1852303	500	12R
1852306	500	47R
1852307	500	68R