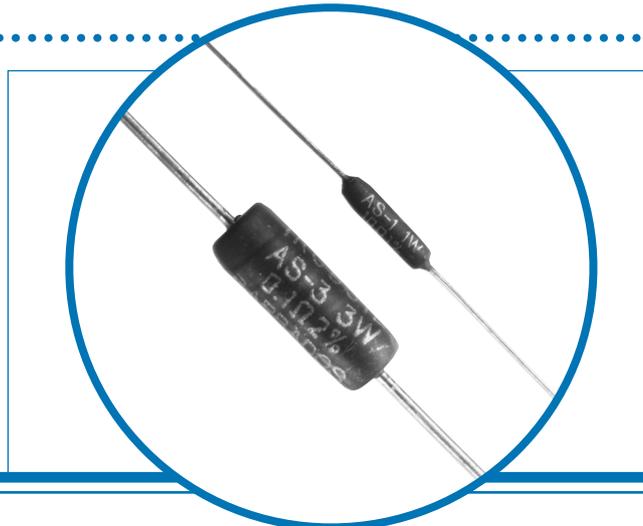


Semi-Precision Power Wirewound Resistor

AS Series

- 0.25 to 10 watts
- Tolerance down to $\pm 0.5\%$
- 0.1 ohm to 175K ohms
- Resistance wire TCR ± 20 ppm/ $^{\circ}\text{C}$



Electrical Data

| Type | Equivalent MIL-R-26 Style | Power Rating (watts) | | Commercial Range (ohms) | | Non-Inductive Range (ohms) | | Available Resistance (ohms) | |
|--------|---------------------------|------------------------|-----------------------|-------------------------|------|----------------------------|------|-----------------------------|----------|
| | | 125 $^{\circ}\text{C}$ | 25 $^{\circ}\text{C}$ | Min. | Max. | Min. | Max. | 0.5%, 1% | 3%, 5% |
| AS-1/4 | RW81 | 0.5 | 1 | 0.1 | 1.0K | * | * | 1-1K | 0.1-1K |
| AS-1/2 | | 0.5 | 1 | 0.1 | 6.0K | * | * | 1-6K | 0.1-6K |
| AS-1 | RW70U | 1 | 2 | 0.1 | 7.5K | 0.1 | 3.8K | 1-7.5K | 0.1-7.5K |
| AS-1C | | 1 | 2 | .05 | 2K | * | * | 1-2K | .05-2K |
| AS-2 | RW-69V/ RW79U | 2 | 3 | 0.1 | 20K | 0.5 | 10K | 1-20K | 0.1-20K |
| AS-2B | | 3 | 4 | 0.1 | 24K | 0.5 | 12K | 1-24K | 0.1-24K |
| AS-2C | | 2 | 3 | 0.1 | 18K | 0.2 | 7.5K | 1-18K | 0.1-18K |
| AS-3 | | 3 | 5 | 0.1 | 30K | 0.5 | 15K | 1-30K | 0.1-30K |
| AS-5 | RW74U/ RW67U | 5 | 7 | 0.1 | 60K | 0.8 | 30K | 1-60K | 0.1-60K |
| AS-7 | | 7 | 9 | 0.1 | 90K | 1.0 | 45K | 1-90K | 0.1-90K |
| AS-10 | RW68V/ RW78U | 10 | 14 | 0.1 | 175K | 3.0 | 50K | 1-175K | 0.1-175K |

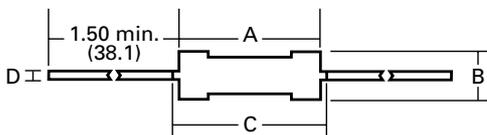
Inductance of AS-1/2 is less than 1 μH at 1MHz.

To order non-inductive types, add the prefix 'N'. Example: NAS-1, NAS-2C, etc.

* Typical inductance of AS-1C <5ohms is <1 μH . Lower values available upon request.

Physical Data

| Dimensions (mm) | | | | |
|-----------------|--------------|---------|---------|-------------------|
| Type | A ± 0.81 | B (max) | C (max) | D (Lead Diameter) |
| AS-1/4 | 6.4 | 2.4 | 7.9 | 0.5 |
| AS-1/2 | 7.9 | 2.4 | 9.5 | 0.5 |
| AS-1 | 9.3 | 3.2 | 10.9 | 0.5 0.64 |
| AS-1C | 6.5 | 2.9 | 7.7 | 0.64 0.8 |
| AS-2 | 12.2 | 6.3 | 15.2 | 0.8 |
| AS-2B | 13.7 | 5.6 | 16.6 | 0.8 |
| AS-2C | 11.0 | 4.0 | 15.1 | 0.8 |
| AS-3 | 17.5 | 7.2 | 20.6 | 1.0 |
| AS-5 | 22.2 | 8.8 | 24.9 | 1.0 |
| AS-7 | 31.8 | 8.8 | 35.0 | 1.0 |
| AS-10 | 46.0 | 9.8 | 49.2 | 1.0 |



Please note lead length dimension change on the following two items only:
AS-2B 33.0mm (min)
AS-2C 33.0mm (min)

Note:

- Coating and marking is resistant to normal freon degreasing. Consult factory for special requirements.
- AS marking available in Alpha Numeric or Colourbanding - identification available.

* Leads are solder plated. AS-1C leads are copper. All others are 40% conductivity copper sheathed steel.

General Note

Welwyn Components reserves the right to make changes in product specification without notice or liability. All information is subject to Welwyn's own data and is considered accurate at time of going to print.

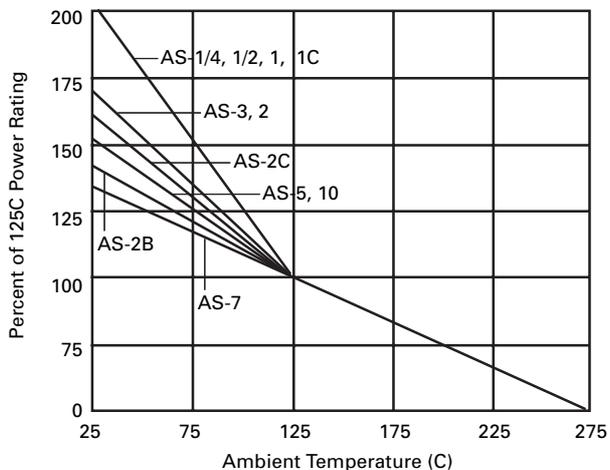
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Telephone: +44 (0) 1670 822181 · Facsimile: +44 (0) 1670 829465 · Email: info@welwyn-tt.com · Website: www.welwyn-tt.com

Semi-Precision Power Wirewound Resistor

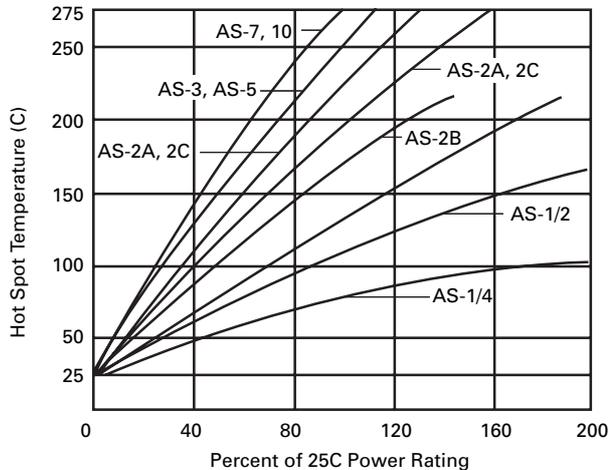
AS Series



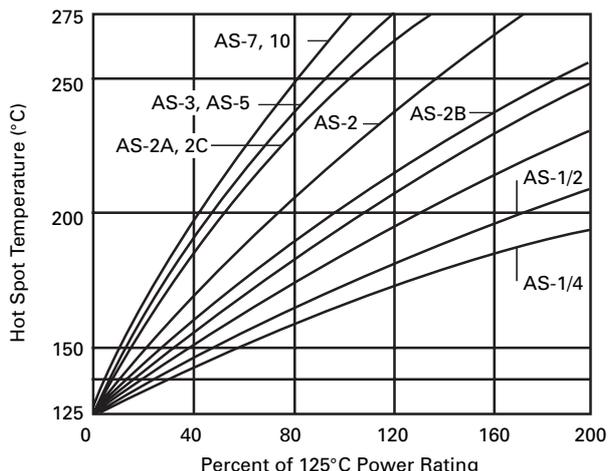
Power Derating



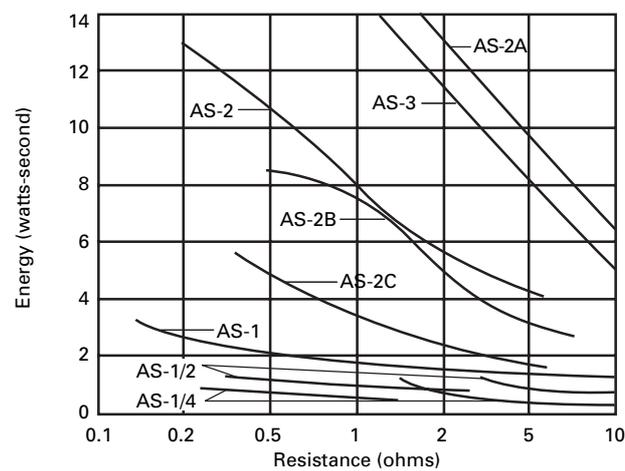
Temperature Rise @ 25°C



Temperature Rise @ 125°C



Selected Pulse-Handling Capability @ 125°C



Environmental Testing at 25°C

| Test Condition | Max ΔR |
|---------------------------|--------|
| Load Life 1000 hours | 1.0% |
| Moisture Resistance | 1.0% |
| Temperature Cycle | 0.5% |
| Short Time Overload | 0.5% |
| Low Temperature Operation | 0.5% |
| Solder Heat | 0.25% |
| Shock | 0.5% |
| Vibration | 0.5% |

Semi-Precision Power Wirewound Resistor

AS Series



Ordering Procedure

Example: AS1/4 at 1 kilohm and 5% tolerance on a reel of 2000 pieces -

