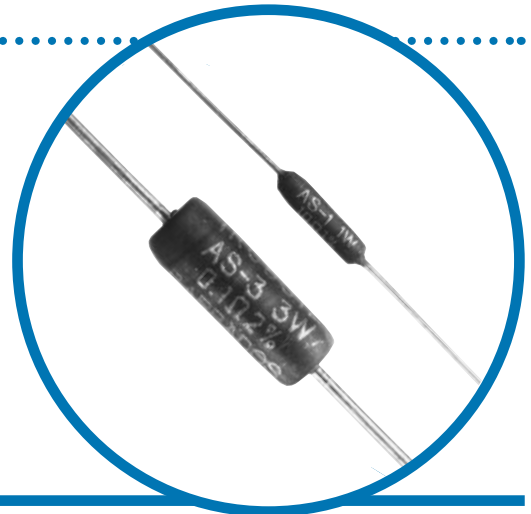


# Semi-Precision Power Wirewound Resistor

AS Series

- 0.25 to 10 watts
- Tolerance down to  $\pm 0.5\%$
- 0.1 ohm to 175K ohms
- Resistance wire TCR  $\pm 20$  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	

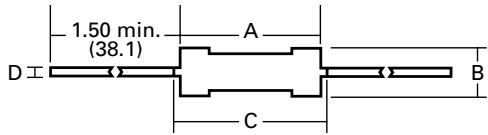
Inductance of AS-1/2 is less than 1 $\mu\text{H}$  at 1MHz.

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

\* Typical inductance of AS-1C <5ohms is <1 $\mu\text{H}$ . Lower values available upon request.

## Physical Data

Dimensions (mm)				
Type	A $\pm 0.81$	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:

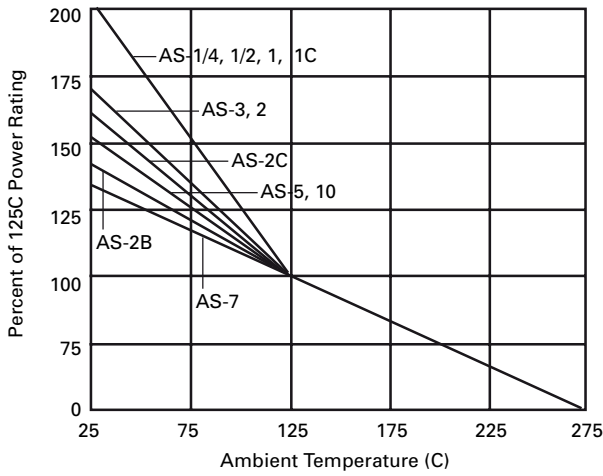
- Coating and marking is resistant to normal freon degreasing.
- Consult factory for special requirements.
- AS marking available in Alpha Numeric or Colourbanding - identification available.

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

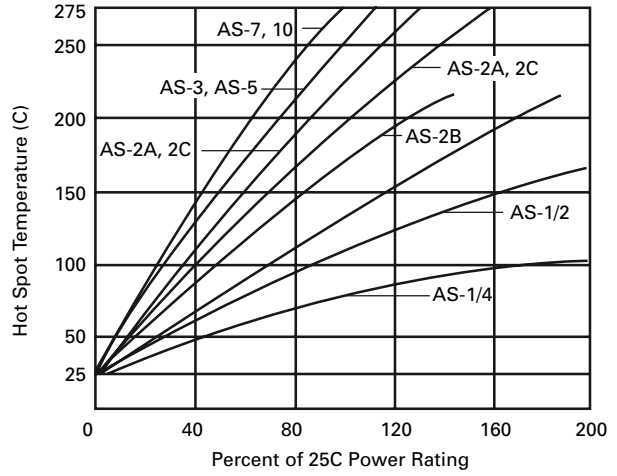
### General Note

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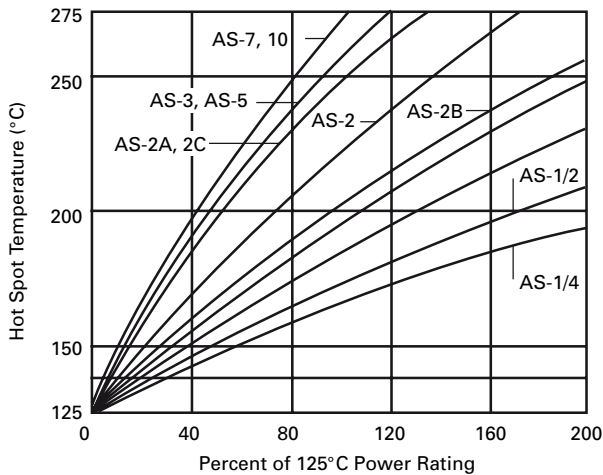
**Power Derating**



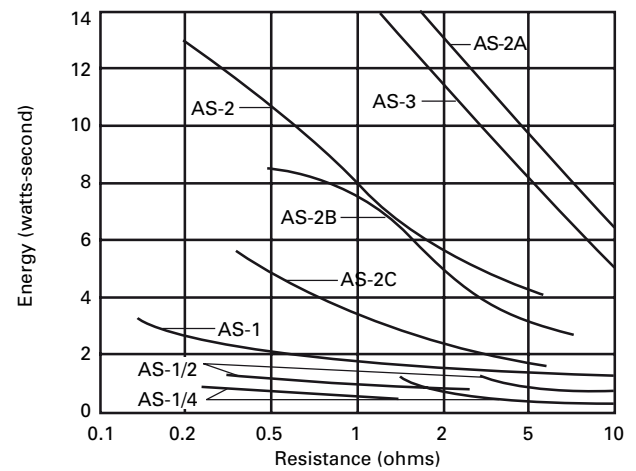
**Temperature Rise @ 25°C**



**Temperature Rise @ 125°C**



**Selected Pulse-Handling Capability @ 125°C**



**Environmental Testing at 25°C**

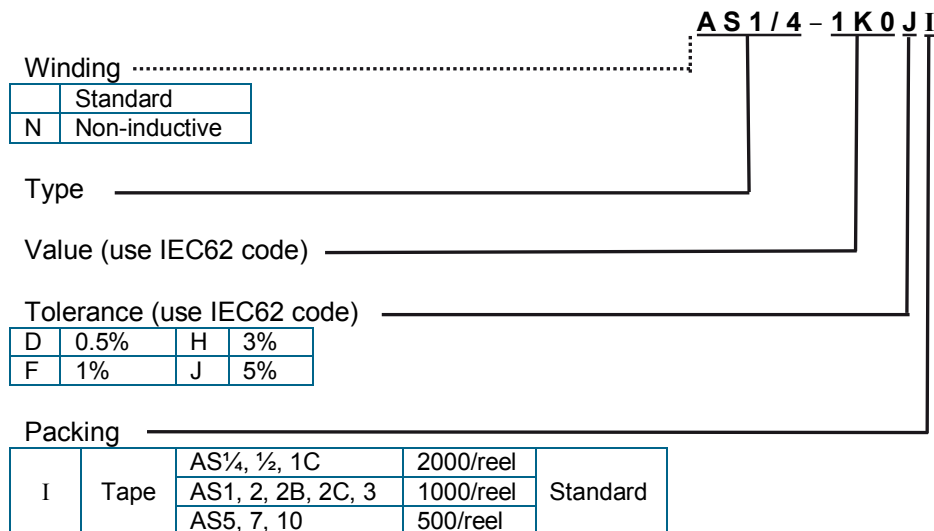
Test Condition	Max ΔR
Load Life 1000 hours	1.0%
Moisture Resistance	1.0%
Temperature Cycle	0.5%
Short Time Overload	0.5%
Low Temperature Operation	0.5%
Solder Heat	0.25%
Shock	0.5%
Vibration	0.5%

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## Ordering Procedure

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



### General Note

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