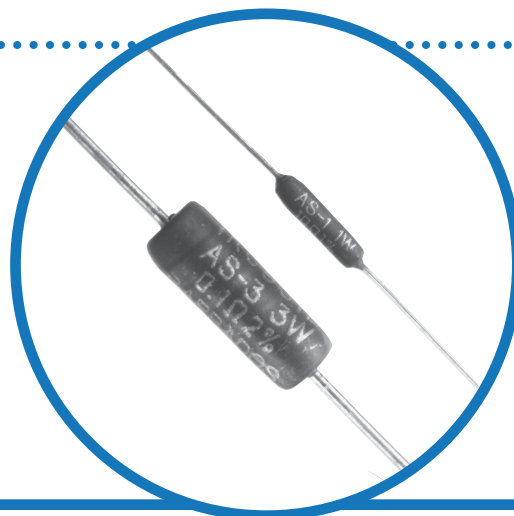


# Semi-Precision Power Wirewound Resistor

(N)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/ $^{\circ}\text{C}$
- Non inductive (NAS) option
- Pb-free option is RoHS compliant

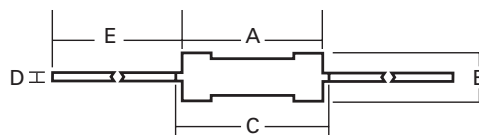


## Electrical Data

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%
(N)AS-1/4	RW81	0.25	1	0R1	1K0	0R2	60R	1R0-1K0	0R1-1K0
(N)AS-1/2		0.5	1	0R1	6K0	0R5	60R	1R0-6K0	0R1-6K0
(N)AS-1	RW70U	1	2	0R1	7K5	0R2	3K8	1R0-7K5	0R1-7K5
(N)AS-1C		1	2	R05	2K0	10R	1K0	1R0-2K0	R05-2K0
(N)AS-2	RW79U	2	3	0R1	20K	R25	10K	1R0-20K	0R1-20K
(N)AS-2B		3	4	0R1	24K	0R1	12K	1R0-24K	0R1-24K
(N)AS-2C		2	3	0R1	18K	0R2	7K5	1R0-18K	0R1-18K
(N)AS-3		3	5	0R1	30K	0R1	15K	1R0-30K	0R1-30K
(N)AS-5	RW74U	5	7	0R1	60K	0R1	30K	1R0-60K	0R1-60K
(N)AS-7		7	9	0R1	90K	0R2	45K	1R0-90K	0R1-90K
(N)AS-10	RW78U	10	14	0R1	175K	0R2	50K	1R0-175K	0R1-175K

## Physical Data

Dimensions Inches (mm)					
Type	A $\pm 0.032$ (0.81)	B (max)	C (max)	D (nom)	E (min)
(N)AS-1/4	0.250(6.4)	0.094 (2.4)	0.312 (7.9)	0.020 (0.5)	1.50 (38.1)
(N)AS-1/2	0.312(7.9)	0.094 (2.4)	0.375 (9.5)	0.020 (0.5)	1.50 (38.1)
(N)AS-1	0.367(9.3)	0.125 (3.2)	0.429 (10.9)	0.020 (0.5)	1.50 (38.1)
(N)AS-1C	0.256(6.5)	0.115 (2.9)	0.303 (7.7)	0.025 (0.64)	1.50 (38.1)
(N)AS-2	0.480(12.2)	0.250 (6.3)	0.600 (15.2)	0.032 (0.8)	1.50 (38.1)
(N)AS-2B	0.540(13.7)	0.219 (5.6)	0.663 (16.6)	0.032 (0.8)	1.30 (33.0)
(N)AS-2C	0.489(11.0)	0.157 (4.0)	0.594 (15.1)	0.032 (0.8)	1.30 (33.0)
(N)AS-3	0.687(17.5)	0.282 (7.2)	0.812 (20.6)	0.040 (1.0)	1.50 (38.1)
(N)AS-5	0.875(22.2)	0.344 (8.8)	0.980 (24.9)	0.040 (1.0)	1.50 (38.1)
(N)AS-7	1.250(31.8)	0.344 (8.8)	1.375 (35.0)	0.040 (1.0)	1.50 (38.1)
(N)AS-10	1.812(46.0)	0.385 (9.8)	1.937 (49.2)	0.040 (1.0)	1.50 (38.1)

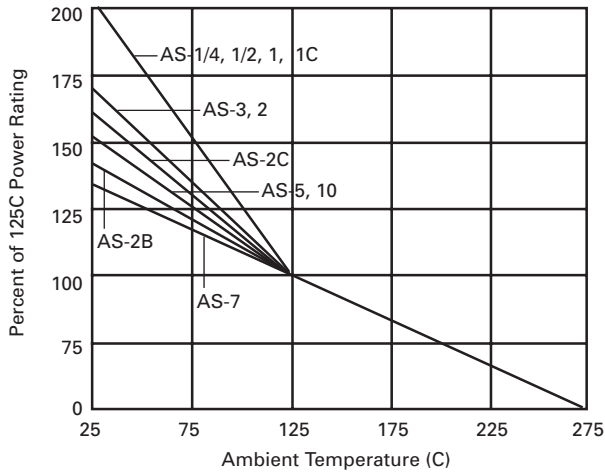


### General Note

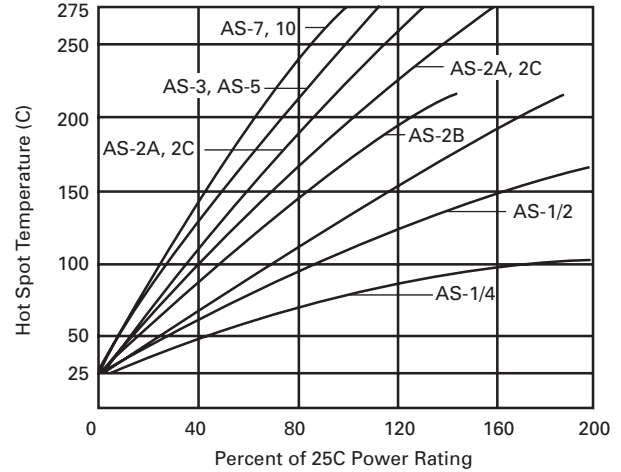
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## Performance Data

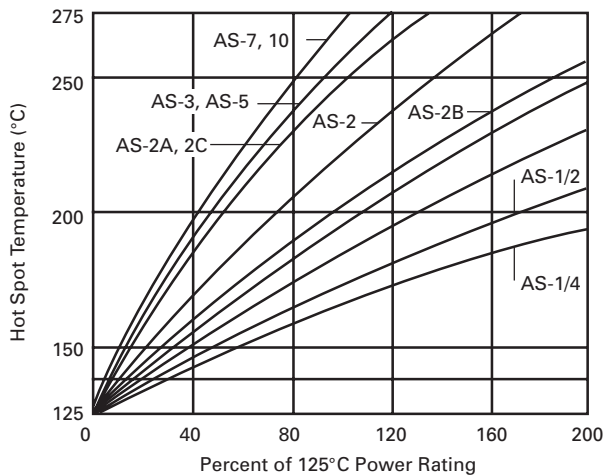
**Power Derating**



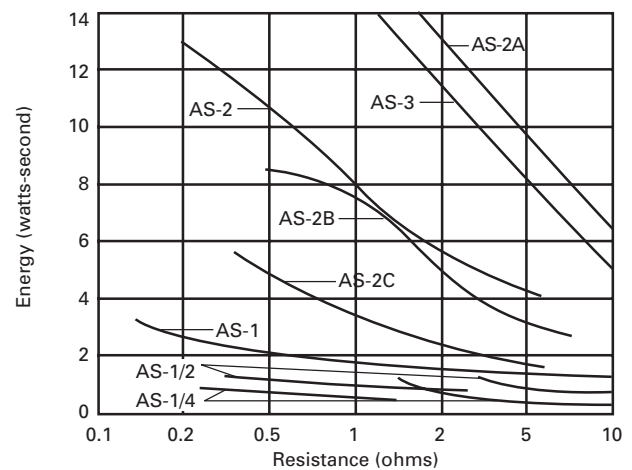
**Temperature Rise @ 25°C**



**Temperature Rise @ 125°C**



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



## Environmental Testing

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%

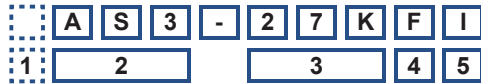
**General Note**

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## Ordering Procedure

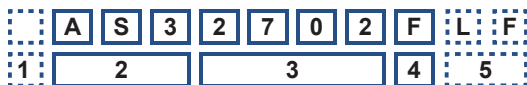
This product has two valid part numbers:

**European (Welwyn) Part Number: AS3-27KFI** (AS3, 27 kilohms  $\pm 1\%$ , Pb-free)



1	2	3	4	5	
Winding	Type	Value	Tolerance	Termination & Packing	
Omit for standard	AS1/4, AS1/2	E24 = 3/4 characters R = ohms K = kilohms	D = $\pm 0.5\%$	I = Pb-free, Standard packing	
	AS1, AS1C		F = $\pm 1\%$	AS1/4, 1/2, 1C	up to 2000/reel
N = non-inductive	AS2, AS2B		H = $\pm 3\%$	AS1, 2, 2B, 2C, 3, 5, 7	1000/reel
	AS2C, AS3		J = $\pm 5\%$	AS10	500/reel
	AS5, AS7, AS10				

**USA (IRC) Part Number: AS32702FLF** (AS3, 27 kilohms  $\pm 1\%$ , Pb-free)



1	2	3	4	5	
Winding	Type	Value	Tolerance	Termination & Packing	
Omit for standard	AS1/4, AS1/2	3 digits + multiplier	D = $\pm 0.5\%$	Omit for SnPb, Standard packing	
	AS1, AS1C		F = $\pm 1\%$	LF = Pb-free, Standard packing	
N = non-inductive	AS2, AS2B	R = ohms for values <100 ohms	H = $\pm 3\%$	AS1/4, 1/2, 1C	up to 2000/reel
	AS2C, AS3		J = $\pm 5\%$	AS1, 2, 2B, 2C, 3, 5, 7	1000/reel
	AS5, AS7, AS10			AS10	500/reel

### General Note

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