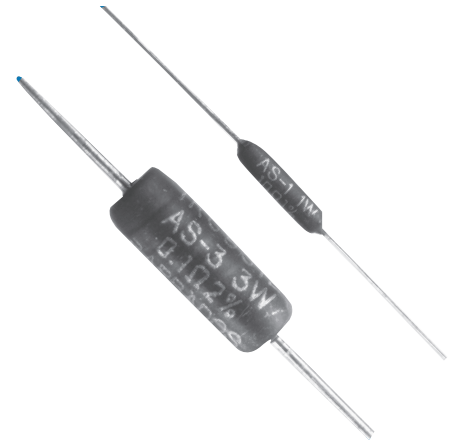


Semi-Precision Power Wirewound Resistor

(N)AS Series

- 0.25 to 10 watts
- Tolerance down to $\pm 0.5\%$
- 0.1 ohm to 150K ohms
- Resistance wire TCR ± 20 ppm/ $^{\circ}\text{C}$
- Non inductive (NAS) option
- Pb-free option is RoHS compliant



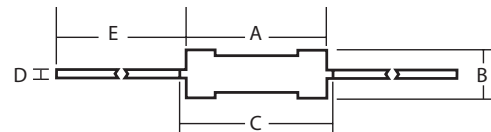
All Pb-free parts comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Electrical Data

| Type | Equivalent MIL-R-26 Style | Power Rating (watts) | | AS Standard Range (ohms) | | NAS Non-inductive Range (ohms) | | Available Tolerance (%) | |
|-----------|---------------------------|------------------------|-----------------------|--------------------------|------|--------------------------------|------|-------------------------|-------------------|
| | | 125 $^{\circ}\text{C}$ | 25 $^{\circ}\text{C}$ | Min. | Max. | Min. | Max. | <1R0 | $\geq 1\text{R}0$ |
| (N)AS-1/4 | RW81 | 0.25 | 1 | 0R2 | 4K0 | 1R0 | 500R | 3, 5 | 0.5, 1, 3, 5 |
| (N)AS-1/2 | | 0.5 | 1 | 0R24 | 6K0 | 1R0 | 3K0 | | |
| (N)AS-1 | RW70U | 1 | 2 | 0R1 | 7K5 | 0R1 | 3K8 | | |
| (N)AS-1C | | 1 | 2 | R05 | 2K0 | 10R | 1K0 | | |
| (N)AS-2 | RW79U | 2 | 3 | 0R1 | 20K | 0R5 | 10K | | |
| (N)AS-2B | | 3 | 4 | 0R1 | 33K | 0R5 | 12K | | |
| (N)AS-2C | | 2 | 3 | 0R1 | 18K | 0R2 | 7K5 | | |
| (N)AS-3 | | 3 | 5 | 0R1 | 30K | 0R5 | 15K | | |
| (N)AS-5 | RW74U | 5 | 7 | 0R1 | 60K | 0R8 | 30K | | |
| (N)AS-7 | | 7 | 9 | 0R1 | 90K | 1R0 | 45K | | |
| (N)AS-10 | RW78U | 10 | 14 | 0R1 | 150K | 0R3 | 51K | | |

Physical Data

| Dimensions Inches (mm) | | | | | |
|------------------------|----------------------|-------------|--------------|--------------|-------------|
| Type | A ± 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) |



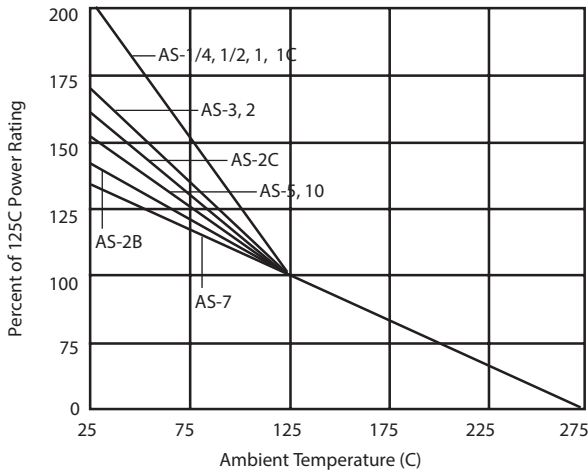
General Note

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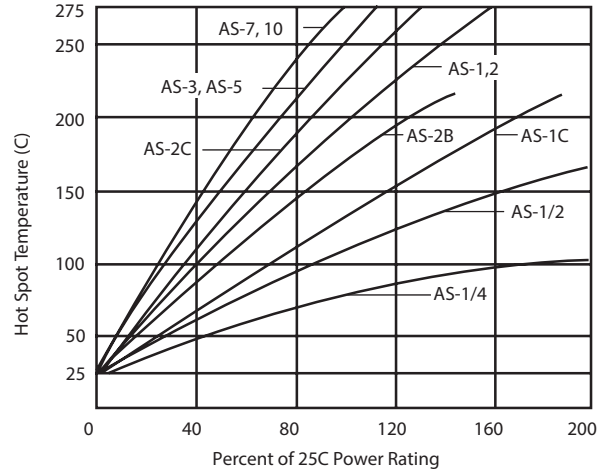
(N)AS Series

Performance Data

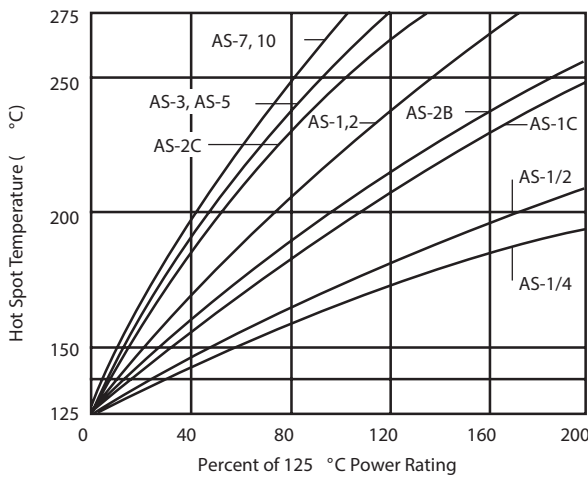
Power Derating



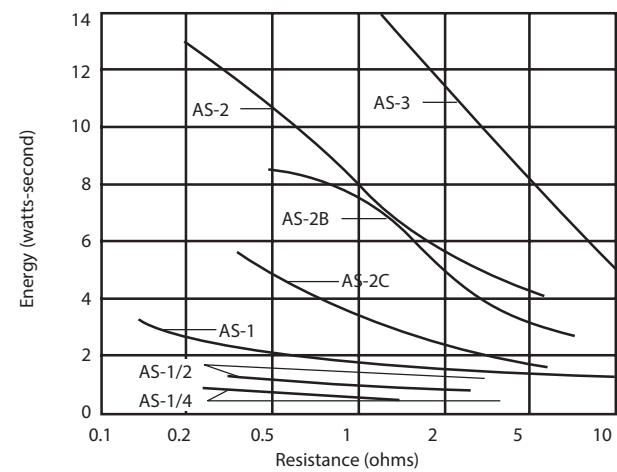
Temperature Rise @ 25°C



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

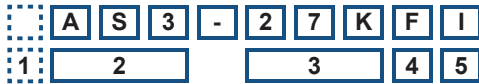
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(N)AS Series

Ordering Procedure

This product has two valid part numbers:

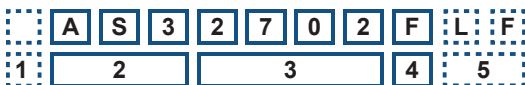
European (Welwyn) Part Number: AS3-27KFI (AS3, 27 kilohms $\pm 1\%$, Pb-free)



| 1 | 2 | 3 | 4 | 5 | |
|-------------------|---|---|-----------------|-------------------------------------|----------|
| Winding | Type | Value | Tolerance | Termination & Packing | |
| Omit for standard | AS1/4, AS1/2 AS1, AS1C AS2, AS2B AS2C, AS3 AS5, AS7, AS10 | E24 = 3/4 characters R = ohms K = kilohms | D = $\pm 0.5\%$ | I = Pb-free, Standard packing bulk* | |
| N = non-inductive | | | F = $\pm 1\%$ | AS1/4, 1/2, 1, 1C, 2, | 1000/box |
| | | | H = $\pm 3\%$ | 2B, 2C, 3, 5 | |
| | | | J = $\pm 5\%$ | AS7, 10 | 500/box |

* Tape and reel available on request

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 AS1, AS1C AS2, AS2B AS2C, AS3 AS5, AS7, AS10 | 3 digits + multiplier R = ohms for values <100 ohms | D = $\pm 0.5\%$ | LF=Pb-free, Omit for SnPb | |
| N = non-inductive | | | F = $\pm 1\%$ | Standard packing bulk* | |
| | | | H = $\pm 3\%$ | AS1/4, 1/2, 1, 1C, 2, 2B | 1000/box |
| | | | J = $\pm 5\%$ | AS7, 10 | 500/box |

* Tape and reel available on request

General Note

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[RWR81SR619FRBSL](#) [RWR89S9310FPB12](#) [27J1K0](#) [93J62RE](#) [AC10000002208JAB00](#) [1HJ-25](#) [FSQ5WR47J](#) [25J39K](#) [25J5R0-B](#) [25W1D0](#)
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[RWR89S6R81FRB12](#) [RWR89N30R1FRB12](#) [RWR81S4R99FPB12](#) [RWR74S4R02FRRSL](#)