

SEMI-PRECISION POWER WIREWOUNDS

AS SERIES

- ☐ ½ watt to 10 watts
- ☐ $\pm 5\%$, $\pm 3\%$, $\pm 1\%$, $\pm .5\%$,
 $\pm .25\%$, $\pm .1\%$ tolerance
- ☐ 0.1 ohm to 175k ohms
- ☐ ± 20 ppm/ $^{\circ}\text{C}$

Alloy resistance wire wound to specific parameters including ± 20 ppm TCR.

All welded cap and lead assembly

Digital marking

Silicone conformal coating

Heat conducting ceramic substrate

AS Wirewound available as surface mount resistor -
(see page 5)

SPECIFICATIONS

TRW Type	Equivalent MIL-R-26 Style	TRW Power Rating 275°C Max. Hot Spot (watts)		Commercial Range (ohms)		Voltage Rating (volts)	Non-Inductive Range† (ohms)		Available Resistance (ohms)‡			
		125°C	25°C	Min.	Max.		Min.	Max.	0.1% Tol.	0.25% Tol.	0.5%, 1% Tol.	3%, 5% Tol.
AS-½		0.5	1	0.1	6K	100	*	*	5-2K	2.5-2K	1-6K	0.1-6K
AS-1	RW70U	1	2	0.1	7.5K	130	0.1	3.8K	5-3K	2.5-3K	1-7.5K	0.1-7.5K
AS-2	RW69V/RW79U	2	3	0.1	20K	140	0.5	10K	5-4.2K	2.5-4.2K	1-20K	0.1-20K
AS-2B		3	4	0.1	24K	185	0.5	12K	5-4.5K	2.5-4.5K	1-24K	0.1-24K
AS-2C		2	3	0.1	18K	160	0.2	7.5K	5-4.2K	2.5-4.2K	1-18K	0.1-18K
AS-3		3	5	0.1	30K	200	0.5	15K	5-6.5K	2.5-6.5K	1-30K	0.1-30K
AS-5	RW74U/RW67V	5	7	0.1	60K	400	0.8	30K	5-15.5K	2.5-15.5K	1-60K	0.1-60K
AS-7		7	9	0.1	90K	600	1.0	45K	5-22K	2.5-22K	1-90K	0.1-90K
AS-10	RW68V/RW78U	10	14	0.1	175K	1000	3.0	50K	5-55K	2.5-55K	1-175K	0.1-175K

* Inductance on AS-½ is less than 1 μH at 1 MHz.

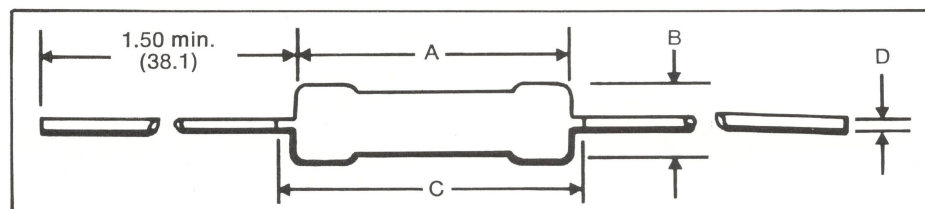
† To order non-inductive types, add the prefix "N". Example: NAS-1, NAS-2C, etc.

‡ Lower values available upon request.

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%

Test Condition	Max. ΔR
Low Temperature Operation	0.5%
Solder Heat	0.25%
Shock	0.5%
Vibration	0.5%



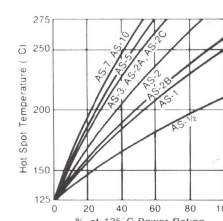
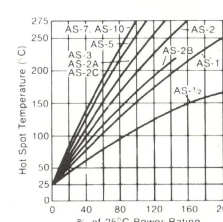
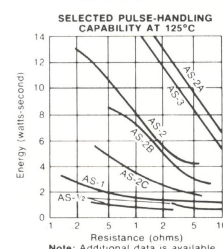
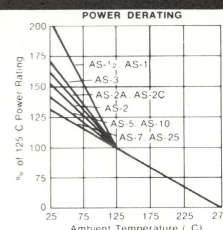
DIMENSIONS — IN. AND (mm)

TRW Type	Dim. A ± 0.32	Dim. B (Max.)	Dim. C (Max.)	Dim. D (Lead Dia.)
AS-½	.312 (.79)	.094 (2.4)	.375 (9.6)	.020 (.5)
AS-1	.375 (9.6)	.125 (3.2)	.450 (11.4)	.020 (.5)
AS-2	.500 (12.7)	.250 (6.35)	.625 (15.9)	.032 (.8)
AS-2B	.562 (14.3)	.219 (5.6)	.687 (17.5)	.032 (.8)
AS-2C	.469 (11.9)	.157 (4.0)	.562 (14.3)	.032 (.8)
AS-3	.687 (17.5)	.282 (7.2)	.812 (20.6)	.040 (1.0)
AS-5	.875 (22.2)	.344 (8.8)	1.000 (25.4)	.040 (1.0)
AS-7	1.250 (31.8)	.344 (8.8)	1.375 (35.0)	.040 (1.0)
AS-10	1.812 (46.0)	.407 (10.4)	1.937 (49.2)	.040 (1.0)

Made in Barbados.

AVAILABLE THROUGH AUTHORIZED TRW RESISTOR DISTRIBUTORS

NOTE: Consult factory for specific information on resistance to various solvents.



HOW TO ORDER

Sample Part No.:

AS - 3 - 27Ω - .25%

TRW Type

Power

3 = 3 watts (See specification chart for other power ratings)

Resistance Value

Expressed in ohms (Standard EIA/MIL Values)

Tolerance

$\pm 5\%$, $\pm 3\%$, $\pm 1\%$,
 $\pm .5\%$, $\pm .25\%$, $\pm .1\%$ standard

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