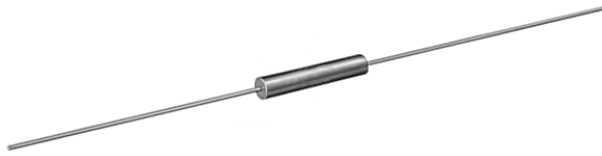


Fast Acting, Molded Styles Custom Designed For Your Application



FEATURES

- Low temperature coefficient (down to 30 ppm/°C)
- High temperature silicone molded package (derated to 200 °C)
- Performs function of resistor and series fuse and provides predictable fusing times
- Complete welded construction
- No flaming or distortion of unit under fusing conditions
- Ideal for Squib circuit applications and protection of semi-conductor devices
- Negligible noise and voltage coefficient



TYPICAL ELECTRICAL SPECIFICATIONS

The following are offered as examples of reliable designs. Hundreds of possible combinations are available for meeting your requirements. Contact factory by using email address in the footer of this page, for assistance. Higher wattages available.

GLOBAL MODEL	HISTORICAL MODEL	FUSING PARAMETERS		RESISTANCE RANGE Ω $\pm 5\%$, $\pm 10\%$ Available	1.0 W CONTINUOUS POWER ⁽¹⁾	
		FUSING CURRENT Amperes	TYPICAL FUSING TIME Milliseconds		CONTINUOUS CURRENT A	CROSSOVER VALUE Ω
RS01A...209	RS-1A-209	0.5	4	49 - 500	0.10	100.0
RS01A...118	RS-1A-118	1.0	9	6.8 - 185	0.25	16.0
RS01A...212	RS-1A-212	1.25	8	4.7 - 107	0.30	11.11
RS01A...213	RS-1A-213	1.5	15	3.5 - 68	0.35	8.16
RS01A...143	RS-1A-143	2.0	15	2.2 - 35	0.40	6.25
RS01A...214	RS-1A-214	2.5	23	1.7 - 23	0.45	4.94
RS01A...162	RS-1A-162	3.0	48	1.1 - 12	0.55	3.31
RS01A...208	RS-1A-208	4.0	47	0.72 - 6.44	0.75	1.78
RS01A...207	RS-1A-207	6.0	70	0.35 - 2.17	1.0	1.0
RS01A...215	RS-1A-215	8.0	48	0.29 - 1.61	1.25	0.64
RS01A...173	RS-1A-173	10.0	50	0.23 - 1.16	1.50	0.44
RS01A...216	RS-1A-216	15.0	35	0.19 - 0.82	1.75	0.33
RS01A...217	RS-1A-217	20.0	46	0.12 - 0.42	2.0	0.25

Note:

⁽¹⁾ The Continuous Current Rating applies only to values equal to or less than the Crossover Value. The Continuous Power Rating applies only to values equal to or higher than the Crossover Value.

Be aware that the inherent compromise involved between resistive and fusing functions sometimes makes certain exact combinations unattainable. However, in nearly all cases, this does not prevent the production of a functional, reliable fuse resistor thoroughly capable of meeting application requirements.

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: RS01A402R0JS70209 (preferred part number format)

R S 0 1 A 4 0 2 R 0 J S 7 0 2 0 9

GLOBAL MODEL	VALUE	TOLERANCE	PACKAGING	SPECIAL
(See Typical Electrical Specifications Global Model column for options)	R = Decimal K = Thousand 15R00 = 15 Ω 10K00 = 10 k Ω	J = $\pm 5.0\%$ K = $\pm 10.0\%$	E70 = Lead (Pb)-free, tape/reel E12 = Lead (Pb)-free, bulk S70 = Tin/lead, tape/reel B12 = Tin/lead, bulk	(Dash Number) (up to 3 digits) From 1 - 999 as applicable

Historical Part Number example: RS-1A-209 402 Ω 5% S70 (will continue to be accepted)

RS-1A-209	402 Ω	5%	S70
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING

If a MODEL listed in TYPICAL ELECTRICAL SPECIFICATIONS table does not meet your requirements, then please include the following information. It will enable us to choose the best design for your application.

1. Operating wattage or current, ambient temperature and required resistance stability. (% ΔR /1000 hours.)
2. Fusing wattage or current and maximum "blow" time. Also, minimum "blow" time, if applicable.
3. Nominal resistance and maximum allowable resistance tolerance, (5% to 10% preferred).
4. Maximum allowable physical size.
5. Voltage to be interrupted.
6. Frequency of power source, wave form and a brief description of your application.

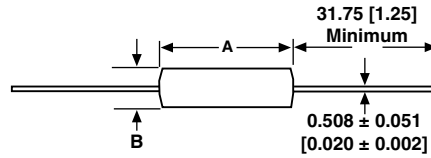


RS Style Wirewound Fuse Resistor

Fast Acting, Molded Styles
Custom Designed For Your Application

Vishay Dale

DIMENSIONS in millimeters [inches]



MODEL	A	B
1.0 W	10.72 ± 0.381 [0.422 ± 0.015]	2.79 ± 0.381 [0.110 ± 0.015]

TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	TYPICAL WIREWOUND FUSE RESISTOR CHARACTERISTICS
Resistance Tolerance	± %	3, 5, 10
Temperature Coefficient	ppm/°C	90 for 0.1 Ω thru 0.99 Ω; 50 for 1.0 Ω thru 9.9 Ω; 30 for 10 Ω and above
Power Rating	W	1.0 standard, higher power ratings available
Dielectric Strength	V _{AC}	500
Insulation Resistance	MΩ	1000 minimum dry
Fusing Times	s	0.001 to 1.0
Minimum Fusing Current	A	Approximately 4 times the continuous operating current obtainable on some designs. Larger ratios produce better designs.
Terminal Strength	lb	5 minimum
Solderability	-	Terminals are 60/40 electro tin plated to facilitate soldering

MATERIAL SPECIFICATIONS

Element: Copper-nickel alloy or nickel-chrome alloy, depending on resistance value

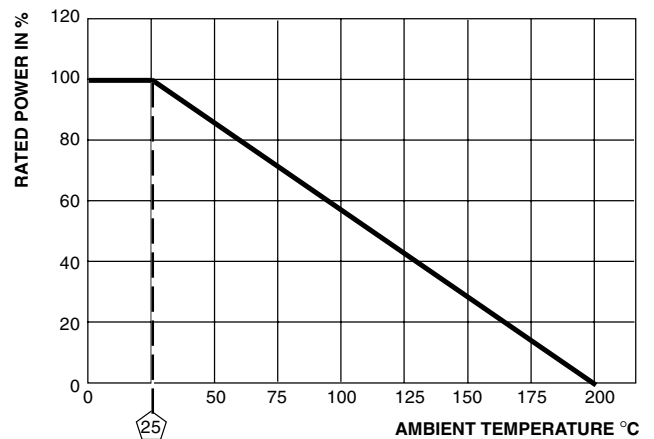
Core: Alumina ceramic

Encapsulant: Thermoset silicone mold compound

End Caps: Stainless steel

Terminals: Tinned copperweld

Part Marking: DALE, Model, Value, Tolerance, Date Code



Derating



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All product specifications and data are subject to change without notice.

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