



Vishay Dale

# Fast Acting, Molded Styles, **Custom Designed For Your Application**



#### **FEATURES**





- 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

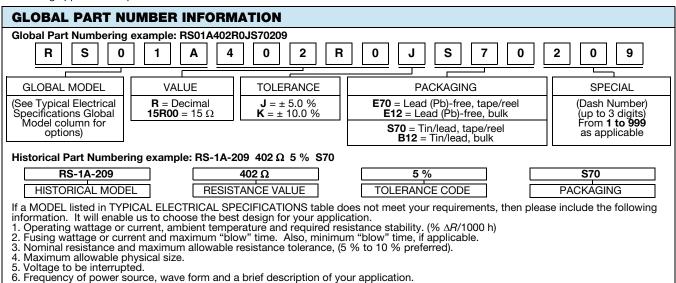
The following are offered as examples of reliable designs. Hundreds of possible combinations are available for meeting your requirements. Contact factory by using email address in the footer of this page, for assistance. Higher wattages available.

GLOBAL MODEL	HISTORICAL MODEL	FUSING PARAMETERS				1.0 W CONTINUOUS POWER (1)	
		FUSING CURRENT A	TYPICAL FUSING TIME ms	RESISTANCE RANGE $\Omega$	TOLERANCE ± %	CONTINUOUS CURRENT A	CROSSOVER VALUE Ω
RS01A209	RS-1A-209	0.5	4	49 to 500	5, 10	0.10	100.0
RS01A118	RS-1A-118	1.0	9	6.8 to 185	5, 10	0.25	16.0
RS01A212	RS-1A-212	1.25	8	4.7 to 107	5, 10	0.30	11.11
RS01A213	RS-1A-213	1.5	15	3.5 to 68	5, 10	0.35	8.16
RS01A143	RS-1A-143	2.0	15	2.2 to 35	5, 10	0.40	6.25
RS01A214	RS-1A-214	2.5	23	1.7 to 23	5, 10	0.45	4.94
RS01A162	RS-1A-162	3.0	48	1.1 to 12	5, 10	0.55	3.31
RS01A208	RS-1A-208	4.0	47	0.72 to 6.44	5, 10	0.75	1.78
RS01A207	RS-1A-207	6.0	70	0.35 to 2.17	5, 10	1.0	1.0
RS01A215	RS-1A-215	8.0	48	0.29 to 1.61	5, 10	1.25	0.64
RS01A173	RS-1A-173	10.0	50	0.23 to 1.16	5, 10	1.50	0.44
RS01A216	RS-1A-216	15.0	35	0.19 to 0.82	5, 10	1.75	0.33
RS01A217	RS-1A-217	20.0	46	0.12 to 0.42	5, 10	2.0	0.25

#### **Notes**

Revision: 17-Feb-11

- 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.



Document Number: 30232 For technical questions, contact: <a href="ww2aresistors@vishay.com">ww2aresistors@vishay.com</a>

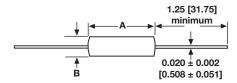
# **RS Style Wirewound Fuse Resistor**

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### **DIMENSIONS** in inches [millimeters]



MODEL	Α	В	
RS01Axxx	0.422 ± 0.015 [10.72 ± 0.381]	0.110 ± 0.015 [2.79 ± 0.381]	

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	TYPICAL WIREWOUND FUSE RESISTOR CHARACTERISTICS		
Temperature Coefficient	ppm/°C	$\pm$ 30 for 10 $\Omega$ and above; $\pm$ 50 for 1.0 $\Omega$ thru 9.9 $\Omega;$ $\pm$ 90 for 0.1 $\Omega$ thru 0.99 $\Omega$		
Power Rating	W	1.0 standard, higher power ratings available		
Dielectric Strength	V <sub>AC</sub>	500		
Insulation Resistance	ΜΩ	1000 minimum dry		
Fusing Times	s	0.001 to 1.0		
Minimum Fusing Current	А	Approximately 4 times the continuous operating current obtainable on some designs. Larger ratios produce better designs.		
Terminal Strength Ib		5 minimum		

### **MATERIAL SPECIFICATIONS**

Element: Copper-nickel alloy or nickel-chrome alloy,

depending on resistance value

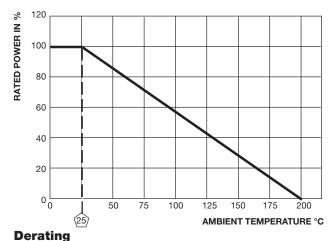
Core: Alumina ceramic

Encapsulant: Thermoset silicone mold compound

End Caps: Stainless steel

Terminals: Tinned copperweld

Part Marking: Dale, model, value, tolerance, date code



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