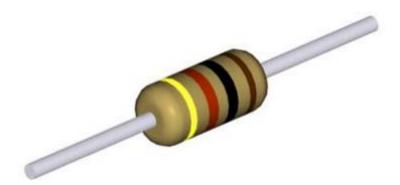


Professionally approved products.

Datasheet

RS Series Axial Carbon Resistor 120 Ω ±5% 1W -500 \rightarrow +350ppm/°C

RS Stock number 707-8634



■Features

- —The most economic industrial investment
- -Standard tolerance: +/-5%
- -Excellent long term stability
- -Termination: Standard solder-plated copper lead

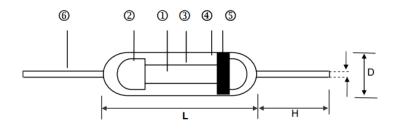
Applications

- Automotive
- Telecommunication
- Medical Equipment



Professionally approved products. Datasheet

■Construction



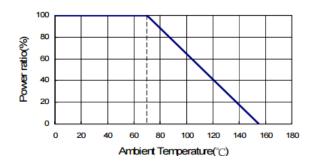
①	Ceramic Rod	4	Non-flame Paint With Sol Vent-proof
2	Tinned Iron Caps	(5)	Colour Code
3	Carbon Film	6	Lead Wire

■Dimensions

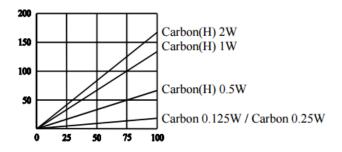
Unit: mm

Туре	L	D	н	d	Weight (g) (1000pcs)
Carbon 0.125W	3.3+0.4/-0.2	1.8±0.3	29.3±2.0	0.452.3±0.03	92
Carbon 0.25W	6.3±0.5	2.3±0.3	28±2.0	0.55±0.03	155
Carbon 0.5W (H)	6.3±0.5	2.3±0.3	28±2.0	0.55±0.03	155
Carbon 1W (H)	9.0±0.5	3.2±0.5	26±2.0	0.65±0.03	352
Carbon 2W (H)	11.5±1.0	4.5±0.5	35±2.0	0.78±0.03	775

■Derating Curve



■Hop-Spot Temperature





Professionally approved products. **Datasheet**

■Electrical Specifications

	Power Rating		working Overload withstanding		Resistance Range	
Type	at 70°C	Temp. Range	Voltage	Voltage	Voltage	±5%
Carbon	0.125W		150V	300V	300V	0.1Ω - 22ΜΩ
Carbon	0.25W	1	250V	500V	500V	1Ω - 10ΜΩ
Carbon(H)	0.5W	-55 ~ +155°C	300V	500V	500V	0.1Ω - 22ΜΩ
Carbon(H)	1W		400V	800V	800V	1Ω - 10ΜΩ
Carbon(H)	2W		500V	1000V	1000V	0.1Ω - 10ΜΩ

■Environmental Characteristics

Item	Requirement	Test Method
Short Time Overload	±(0.75%+0.05Ω)	JIS-C-5201-1 5.5 RCWV*2.5 or Max. overload voltage for 5 seconds
Insulation Resistance	>1000ΜΩ	JIS-C-5201-1 5.6 Apply 100V _{pc} for 1 minute
Endurance	±(3%+0.05Ω)	JIS-C-5201-1 7.10 70±2°C, Max. working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Damp Heat with Load	□100KΩ±3% □100KΩ±5%	JIS-C-5201-1 7.9 40±2°C, 90~95% R.H. Max. working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Solderability	90% min. Coverage	JIS-C-5201-1 6.5 245±5°C for 3 seconds
Dielectric Withstanding Voltage	Ву Туре	JIS-C-5201-1 5.7 Apply Max. Overload Voltage for 1 minute
Temperature Coefficient	< 100KΩ +350ppm~-500ppm 100KΩ~1MΩ -0ppm~-700ppm > 1 MΩ -0ppm~-1500ppm	Resistance value at room temperature and room Temperature+100°C
Pulse Overload	±(1%+0.05Ω)	JIS-C-5201-1 5.8 4 times RCWV for 10000 cycles with 1 second "ON" and 25 seconds "OFF"
Resistance To Solvent	No deterioration of coatings and markings	JIS-C-5201-1 6.9 Trichroethane for 1 min. with ultrasonic
Terminal Strength	Tensile: □2.5 kg	Direct Load for 10 seconds In the direction off the terminal leads

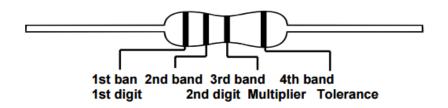
[■] Rated Continuous Working Voltage(RCWV) = √P*R

[■] Storage Temperature: 25±3°C; Humidity < 80%RH



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■Marking & Resistance Tolerance



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I	±5%	E-24	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.6	3.9	4.3	4.7	5.1	5.6	6.2	6.8	7.5	8.2	9.1

Cold	Digit	Multiplier	Toler	rance		
Without	-	-	-	-		
Silver	-	10 ⁻²	-	-		
Gold	-	10 ⁻¹	±5.0%	J		
Black	0	10°	-	-		
Brown	1	10 ¹	-	-		
Red	2	10 ²	-	-		
Orange	3	10 ³	-	-		
Yellow	4	10⁴	-	-		
Green	5	10 ⁵	-	-		
Blue	6	10 ⁶	-	-		
Violet	7	10 ⁷	-	-		
Grey	8	10 ⁸	-	-		
White	9	10 ⁹	-	-		