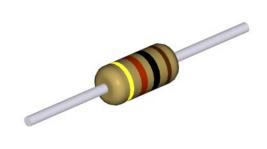
Data sheet Carbon Film Leaded Resistor - RS Series

■Features

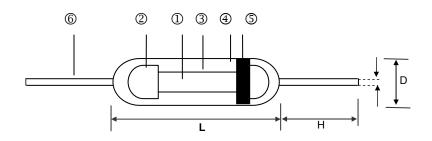
- -The most economic industrial investment
- -Standard tolerance: +/-5%
- -Excellent long term stability
- -Termination: Standard solder-plated copper lead

■Applications

- Automotive
- Telecommunication
- Medical Equipment



■Construction



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

■Dimensions

Unit: mm

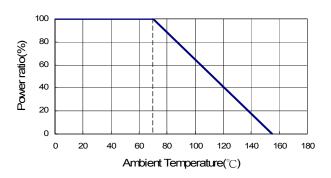
Туре	L	D	Н	d	Weight (g) (1000pcs)
Carbon 0.125W	3.3+0.4/-0.2	1.8±0.3	29.3±2.0	0.452.3±0.03	92
Carbon 0.25W	6.3±0.5	2.3±0.3	28±2.0	0.55±0.03	155
Carbon 0.5W (H)	6.3±0.5	2.3±0.3	28±2.0	0.55±0.03	155
Carbon 1W (H)	9.0±0.5	3.2±0.5	26±2.0	0.65±0.03	352
Carbon 2W (H)	11.5±1.0	4.5±0.5	35±2.0	0.78±0.03	775



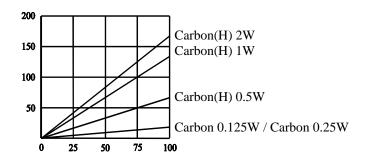




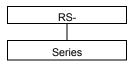
■Derating Curve

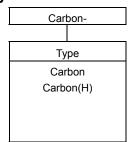


■Hop-Spot Temperature



■Part Numbering





1R-							
Resistance							
0.5R: 0.5 Ω							
1R: 1Ω							
10R: 10Ω							
10K: 10KΩ							
100K: 100KΩ							

5%-
Tolerance
±5%

0.125W								
Power rating @ 70°	С							
0.125W								
0.25W								
0.5W								
1W								
2W								

■Electrical Specifications

	Power Rating at 70°C	Operating Temp. Range	Max. Working	Max. Overload	Dielectric Withstanding	Resistance Range
Туре	at 70 C	remp. Kange	Voltage	Voltage	Voltage	±5%
Carbon	0.125W		150V	300V	300V	0.1Ω - 22ΜΩ
Carbon	0.25W		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 _{DC} 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

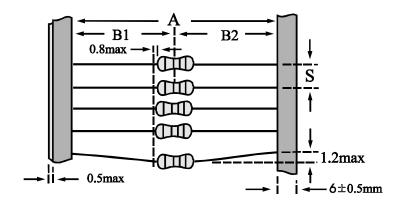
[■] Rated Continuous Working Voltage(RCWV) = √P*R

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



■Taping/Packing Specifications

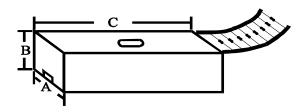
Packing Methods (Ammo)



Unit: mm

Packaging	Packing Methods								
Туре	Α	B1-B2	s						
Carbon 0.125W	52+1/-0	1.2	5						
Carbon 0.25W	52+1/-0	1.2	5						
Carbon 0.5W (H)	52+1/-0	1.2	5						
Carbon 1W (H)	52+1/-0	1.5	5						
Carbon 2W (H)	52+1/-0	1.5	10						

Ammo Packing

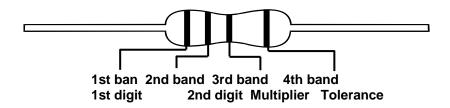


Unit: mm

Packaging	Pa	cking Methods		Ammo Packing								
Туре	А	B1-B2	s	Α	В	С	Qty					
Carbon 0.125W	26+1/-0	1.0	5	80	105	264	5,000					
Carbon 0.25W	26+1/-0	1.0	5	80	105	264	5,000					
Carbon 0.5W (H)	26+1/-0	1.0	5	80	105	264	5,000					
Carbon 1W (H)	73+1/-0	1.5	5	103	82	265	1,000					
Carbon 2W (H)	73+1/-0	1.5	10	103	96	265	1,000					



■ Marking & Resistance Tolerance



Г																										
	LE0/	E-24	1 0	1 1	1 2	1 2	1 E	16	10	$^{\circ}$	$^{\circ}$	2 4	27	2 0	2 2	26	2 0	10	17	E 1	E 6	6 0	60	7 5	0 0	\sim 1
	±5%	L-24	1.0	1 1.1	I I.Z	1.0	1.0	ס.ו	1.0	2.0	Z.Z	2.4	2.1	3.U	າ ວ.ວ	J.0	3.9	I 4.3	4./	I D. I	O.C	0.2	0.0	I / .O	0.2	. 9. I
	_0,0				–									0.0	0.0	0.0	0.0			•	0.0	~	0.0		· · -	- 1

Cold	Digit	Multiplier	Tole	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	10 ⁴	-	-		
Green	5	10⁵	-	-		
Blue	6	10 ⁶	-	-		
Violet	7	10 ⁷	-	-		
Grey	8	10 ⁸	-	-		
White	9	10 ⁹	-	-		