

Carbon Film Resistors

Introduction:

It is the earliest and still popular type of resistors, filming under high vacuum and high temperature splitting & oxidizing the pure carbonhydric onto the ceramic cores. Automation on cutting, capping, sorting and coating, it comes out in good quality & reliability. Billions of products are already in use worldwide in all types of applications – from process control instrumentation to telephone receivers and FM radio to color television.

Features:

- ✧ Industry's lowest cost
- ✧ Exceptional long-term stability
- ✧ Standard tolerances: +5%, +2%
- ✧ Variety of packaging: bulk, taped, tape and reel

Dimension (mm):



General Specifications:

Type	Dimension (mm)				Power Rating	Maximum Working Voltage	Maximum Overload Voltage	Resistance Range (Ω)	
	L	D	H	D±0.05				± 2% (G)	± 5% (J)
CR-1/8W	3.2±0.2	1.5±0.2	28±1	0.48	1/8W	200	400	10~470K	1~4.7M
CR-1/4W	5.7±0.5	2.3±0.3	28±1	0.58	1/4W	250	500	10~1M	1~22M
CR-1/2W	9.0±0.5	3.0±0.5	28±1	0.58	1/2W	350	700	10~1M	1~10M
CR-1W	11±1.0	4.0±0.5	35±3	0.70	1W	500	1000	10~1M	1~10M
CR-2W	15±1.0	5.0±0.5	35±3	0.80	2W	500	1000	10~1M	1~10M

Characteristic:

Test Items	Condition			Spec.	
Short Time Overload	2.5 times of rated voltage for 5 sec.			±1%	
Dielectric Withstanding	Max Overload Voltage V Block 1 minute			0.5%	
Insulation Resistance	DC500V V BLOCK 1 MINUTE			10,000MΩ	
Temp. Cycle	-55℃~+155℃ for 5 cycles.			±1%	
Load Life	70℃ on-off cycles 1,000 hrs.			±5%	
Moisture-Proof Load Life	40℃ 95% RH on-off cycles 500 hrs.			±5%	
Solder Heat Resistance	350℃ for 3.5 sec.			±0.5%	
Temp.		0~-450	0~-700	0~-1000	0~-1300
Coeff.	1/6W,1/8W	<47KΩ	51KΩ~100KΩ	110KΩ~330KΩ	360KΩ~1MΩ
(ppm/℃)	1/4W & over	<100KΩ	110KΩ~1MΩ	1.1MΩ~2.2MΩ	2.4MΩ~4.7MΩ