

CR Series Carbon Film Resistors

CARBON FILM RESISTORS



CR Series

1/6W; 1/8W, 1/4W, 1/2W, 1W, 2W, 3W,
1/4WS, 1/2WS, 1WS, 2WS, 3WS, 5WS
CR-12, CR-25, CR-50, CR-100, CR-200, CR-300

INTRODUCTION

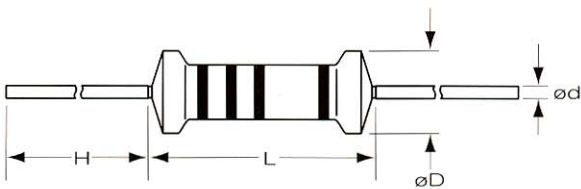
Featuring consistency and stably-controlled, these carbon film resistors with reasonable prices are widely & largely used in the electronic, electrical and information industries.

This resistor is a ceramic bar tightly coated with a carbon film which is composed of carbon separated from organic compound through the treatment of high-temperature vacuum. After the carbon-coated bar is connected with proper joint and engraved with grooves, its surface is finished with epoxy resin so that the bar is enclosed with a protective film.

FEATURES

- Industry's lower cost and deliver from stock.
- Exceptional long-term stability.
- Exceeds carbon comp MIL-R-11 performance.
- Standard tolerance: $\pm 2\%$, $\pm 5\%$
- Variety of packing-bulk, strip pack, 26mm and 52mm tape and reel, cut and formed or radial Pana.

DIMENSIONS:



STYLE	DIMENSION (mm)				POWER RATING (Watt)	VALUE RANGE
	L	øD	H	ød		
CR-12	3.2±0.2	1.8±0.3	28±2	0.43±0.02	1/6W; 1/8W, 1/4WS	1Ω~10M
CR-25	6.0±0.2	2.3±0.3	28±2	0.5±0.02	1/4W, 1/2WS	1Ω~10M
CR-50	9.0±0.5	3.2±0.3	26±2	0.6±0.02	1/2W, 1WS	1Ω~10M
CR-100	11.0±0.5	4.5±0.5	35±2	0.7±0.02	1W, 2WS	1Ω~10M
CR-200	15.0±0.5	5.0±0.5	32±2	0.8±0.02	2W, 3WS	1Ω~10M
CR-300	17.0±0.5	6.0±0.5	32±2	0.8±0.02	3W, 5WS	1Ω~10M

ELECTRICAL CHARACTERISTICS:

Style	CR-12	CR-25	CR-50	CR-100	CR-100	CR-300
Power Rating 70°C	1/6;1/8W,1/4WS	1/4W, 1/2WS	1/2W, 1WS	1W, 2WS	2W, 3WS	3W, 5WS
Operating Temp. Range	-55°C ~ +155°C					
Max. Working Voltage	200V	250V	350V	500V	500V	600V
Max. Overload Voltage	400V	600V	700V	1000V	1000V	500V
Dielectric Withstanding Voltage (AC)	400V	500V	700V	1000V	1000V	1000V
Max. Intermittence Overload Voltage	500V	600V	700V	1000V	1000V	1000V
T.C.R. (PPM)	CR-12 /CR-25 /CR-50			CR-100 /CR-200 /CR-300		
	100KΩ down	100KΩ~1MΩ	1M up	100KΩ down	100KΩ~1MΩ	1MΩ up
	+350/-500	0 ~ -700	0 ~ -1500	+350 ~ -500	0 ~ -700	0 ~ -1500

FIG.1 DERATING CURVE

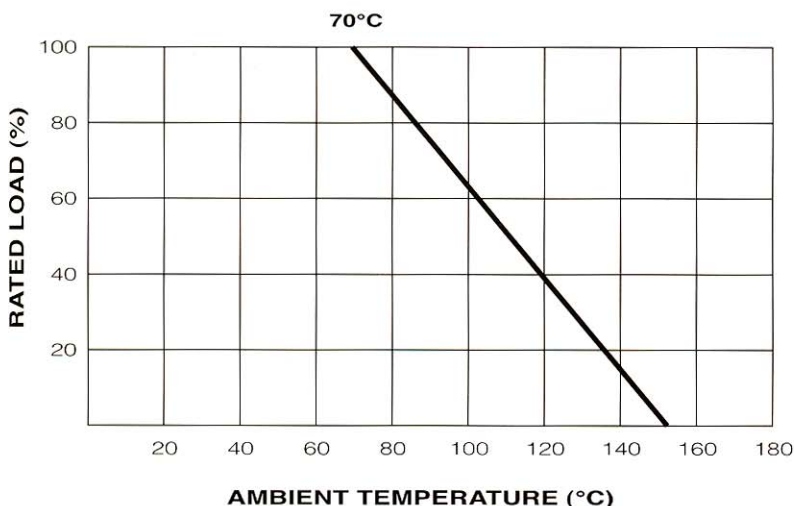


FIG.2 HOT-SPOT TEMPERATURE

