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

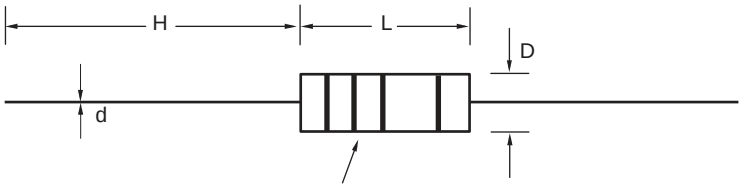
· Industry's lower cost and deliver from stock.

· Exceptional long-term stability.

· Exceeds carbon comp MIL-R-11 performance.

DIMENSIONS (mm)

Type	L	D	H	d
CR-12 CR-25S	3.2 ± 0.2	1.5 ± 0.2	28 ± 2.0	0.45 ± 0.05
CR-25 CR-50S	6.5 ± 0.5	2.3 ± 0.3	28 ± 2.0	0.56 ± 0.05
CR-50 CR-100S	9.5 ± 0.5	3.2 ± 0.5	26 ± 2.0	0.60 ± 0.05
CR-100 CR-200S	12 ± 1.0	4.5 ± 0.5	35 ± 3.0	0.80 ± 0.05
CR-200 CR-300S	16 ± 1.0	5.5 ± 0.5	35 ± 3.0	0.80 ± 0.05
CR-300	17 ± 1.0	6.5 ± 0.5	35 ± 3.0	0.80 ± 0.05



CR E24 Series Marking: 4 Color Bands

POWER CHARACTERISTiC

ITEM \ Power Rated	CR-12 0.125 W	CR-25 CR-25S 0.25 W	CR-50 CR-50S 0.5 W	CR-100 CR-100S 1W	CR-200 CR-200S 2 W	CR-300 CR-300S 3 W
Max Working Voltage	200 V	250 V	350 V	500 V	500 V	600 V
Max Overload Voltage	400 V	500 V	700 V	1000 V	1000 V	1000 V
Max Intermittence Overload Voltage	500 V	750 V	1000 V	1500 V	2000 V	2000 V
Dielectric Withstanding Voltage	300 V (AC)	500 V (AC)	700 V (AC)	1500 V (AC)	1500 V (AC)	1500 V (AC)
Resistance Tolerance	J.G (± 5%,2%)	J.G (± 5%,2%)	J.G (± 5%,2%)	J.G (± 5%,2%)	J.G (± 5%,2%)	J.G (± 5%,2%)
Resistance Range (Ω)	1.0 ~ 10M	1.0 ~ 10M	1.0 ~ 10M	1.0 ~ 10M	1.0 ~ 10M	1.0 ~ 10M

NOTE1. Rated Continuous Working Voltage (RCWV) Shall Be Determined From

$$RCWV = \sqrt{\text{Power Rating} \times \text{Resistance Value}}$$

POWER DERATING CURVE