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ENTERPRISE CO., LTD.



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Resistors
RoHS Compliant

Our Products

CR Series Carbon Film Resistors

CARBON FILM RESISTORS

CR

Series : 1/6W; 1/8W, 1/4, 1/2W, 1W, 2W, 3W,

1/4WS, 1/2WS, 1WS, 2WS, 3WS, 5WS

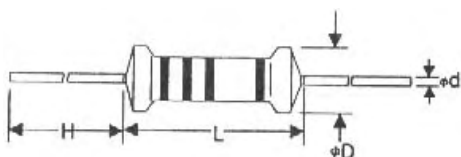
CR-12, CR-25, CR-50, CR-100, CR-200, CR-300

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.

DIMENSIONS:



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.

STYLE	DIMENSION (mm)				POWER RATING (Watt)	VALUE RANGE
	L	$\varnothing D$	H	$\varnothing d$		
CR-12	3.2 ± 0.2	1.8 ± 0.3	28 ± 2	0.43 ± 0.02	1/6W ; 1/8W	$1\Omega \sim 10M$
CR-25	6.0 ± 0.2	2.3 ± 0.3	28 ± 2	0.5 ± 0.02	1/4W	$1\Omega \sim 10M$
CR-50	9 ± 0.5	3.2 ± 0.3	26 ± 2	0.6 ± 0.02	1/2W	$1\Omega \sim 10M$
CR-100	11.0 ± 0.5	4.5 ± 0.5	35 ± 2	0.7 ± 0.02	1W	$1\Omega \sim 10M$
CR-200	15.0 ± 0.5	5.0 ± 0.5	32 ± 2	0.8 ± 0.02	2W	$1\Omega \sim 10M$
CR-300	17.0 ± 0.5	6.0 ± 0.5	32 ± 2	0.8 ± 0.02	3W	$1\Omega \sim 10M$

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, 1/2W	1/2W, 1WS	1W, 2W	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		
	100K Ω down	100K Ω ~1M Ω	1M Ω up	100K Ω down	100K Ω ~1M Ω	1M Ω up
	+350/-500	0 ~ -700	0 ~ -1500	+350 ~ -500	0 ~ -700	0 ~ -1500

FIG.1 DERATING CURVE

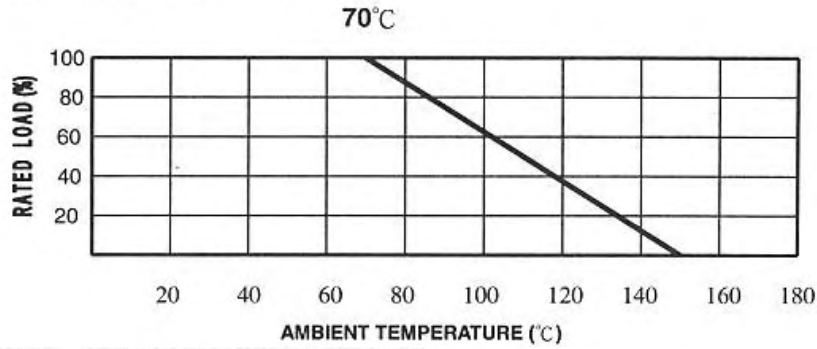
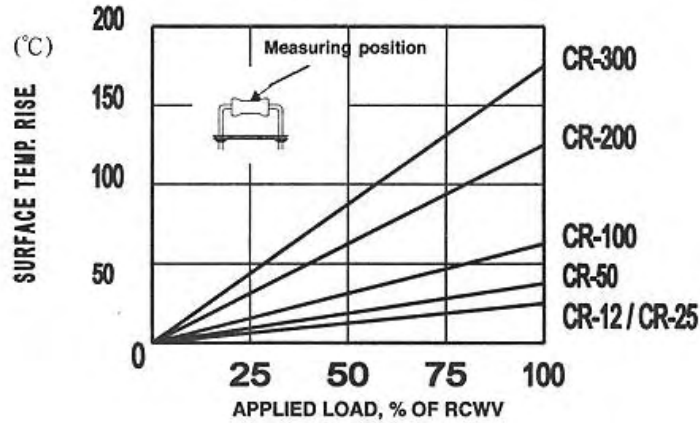


FIG.2 HOT-SPOT TEMPERATURE



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