



FCR Series Flame-Proof Type Carbon Film Resistors

CARBON FILM RESISTORS

FLAME-PROOF TYPE FCR Series

1/4W, 1/2W, 1W, 2W, 3W
 FCR-25, FCR-50, FCR-100,
 FCR-200, FCR-300

INTRODUCTION

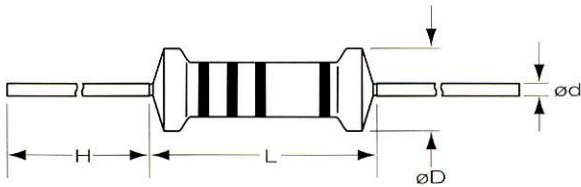
The FCR series flame-proof Carbon Film Resistors are manufactured by Coating a homogeneous film of pure carbon on high grade ceramic rods, resistance less than 10 have an electroless deposited nickel film, and are coated with layers of gray color flame-proof lacquer.

These resistors meet overload tests in accordance with UL specification #1412 without producing a fire hazard.

FEATURES

- lower cost and prompt deliver.
- High power-to size ratio for significant space savings.
- Complete flameproof construction-UL 1412.
- Excellent long-term stability.
- Wide resistance range : 1 Ω ~ 10m Ω
- Standard tolerance : $\pm 5\%$

DIMENSIONS:



STYLE	DIMENSION (mm)				POWER RATING (Watt)
	L	øD	H	ød	
FCR-25	6.3 \pm 0.5	2.3 \pm 0.3	28.0 \pm 2.0	0.6 \pm 0.05	1/4W
FCR-50	9.0 \pm 0.5	3.2 \pm 0.5	26.0 \pm 2.0	0.6 \pm 0.05	1/2W
FCR-100	11.5 \pm 1.0	3.2 \pm 0.5	35.0 \pm 2.0	0.8 \pm 0.05	1W
FCR-200	15.5 \pm 1.0	4.5 \pm 0.5	32.0 \pm 2.0	0.8 \pm 0.05	2W
FCR-300	17.5 \pm 1.0	6.5 \pm 0.5	35.0 \pm 2.0	0.8 \pm 0.05	3W

ELECTRICAL CHARACTERISTICS:

Style	FCR-25	FCR-50	FCR-100	FCR-200	FCR-300	—
Power Rating 70°C	1/4W	1/2W	1W	2W	3W	—
Operating Temp. Range	-55°C ~ +155°C					
Max. Working Voltage	250V	350V	500V	500V	600V	—
Max. Overload Voltage	500V	700V	1000V	1000V	1000V	—
Dielectric Withstanding Voltage (AC)	500V	700V	1500V	1500V	1500V	—
Max. Intermittence Overload Voltage	750V	1000V	1500V	2000V	2000V	—
T.C.R. (PPM)	FCR-25 /CR-50			FCR-100 /FCR-200 /FCR-300		
	100K Ω down	100K Ω ~1M Ω	1M Ω up	100K Ω down	100K Ω ~1M Ω	1M Ω up
	+350/-500	+350/ -700	+350/-1000	+350PPM	+350/-500	+350/-1000

FIG.1 DERATING CURVE

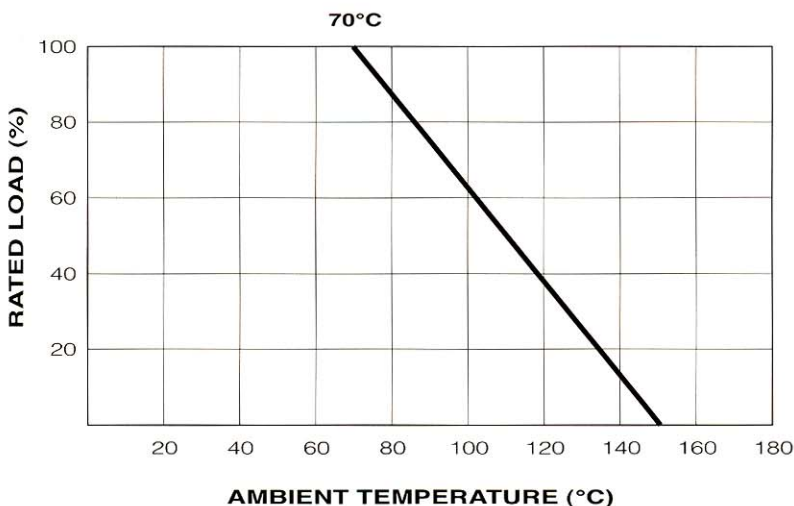


FIG.2 HOT-SPOT TEMPERATURE

