

CODIGO

CR25-XXX

DESCRIPCION

Resistor fijo serie CR25 1/4W

Carbon Film Resistors - CR/FCR Series

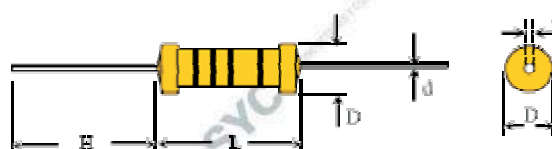
FEATURES

- Industry's lowest cost
- Excellent long term stability
- Used in all kinds of application
- Standard Value: 10R-10Meg in E24 series
- Standard tolerance: $\pm 5\%$ (available $\pm 2\%$)
- Body Color: yellow-brown (biege)
- Color band marking
- Flameproof coating available (As FCR-S type)
- Mini size available (As CR-S type)
- Operating Temperature : -55°C $\sim$ $+125^{\circ}\text{C}$

MATERIAL

- Element: Deposited Carbon Film
- Core: High Purity Ceramic Al_2O_3
- Termination: Standard solder-plated cooper lead.
- Coating: Epoxy, (FCR is grey silicone)

DIMENSION



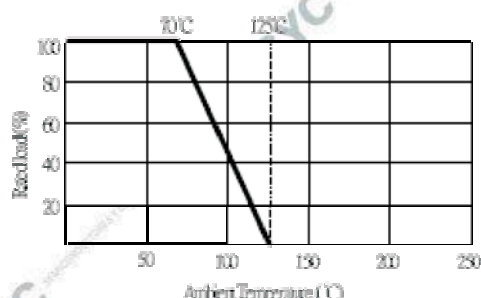
GENERAL SPECIFICATION

TYPE	DIMENSION (mm)				POWER RATING	MAXIMUM WORKING VOLTAGE*	MAXIMUM OVERLOAD VOLTAGE**	RESISTANCE RANGE $\pm 5\%$
	L	D	H	d ± 0.05				
CR125	3.2 ± 0.2	1.6 ± 0.2	28 $\pm$ 1.0	0.45	1/8W	200V	400V	1 Ω ~10M Ω
CR025	6.0 ± 0.5	2.3 ± 0.3	28 $\pm$ 1.0	0.55	1/4W	250V	500V	0.47 Ω ~22M Ω
CR050	9.0 ± 0.5	3.0 ± 0.5	28 $\pm$ 1.0	0.63	1/2W	350V	700V	0.47 Ω ~22M Ω
CR100	11 ± 1.0	4.0 ± 0.5	35 $\pm$ 3.0	0.75	1W	500V	1000V	0.47 Ω ~22M Ω
CR200	15 ± 1.0	5.0 ± 0.5	35 $\pm$ 3.0	0.75	2W	500V	1000V	0.47 Ω ~22M Ω
CR300	17 ± 1.0	6.0 ± 0.5	35 $\pm$ 3.0	0.75	3W	500V	1000V	0.5 Ω ~22M Ω

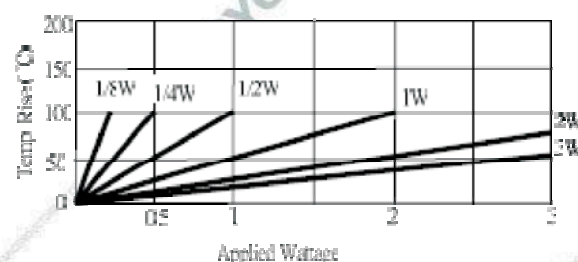
* Maximum Working Voltage determined by $E = \sqrt{P \times R}$, where E should not exceed value listed in column above.

** Maximum Overload Voltage equals to $2.5 \times E$, but should not exceed value listed in column above

DERATING CURVE



TEMPERATURE RISE



CHARACTERISTIC

Temperature Coefficient	$\pm 300\text{ppm}$ ($<100\text{k}\Omega$), $\pm 800\text{ppm}$ max
Insulation Resistance	10,000M Ω Min.
Load Life (1000 hours)	$< \pm 3\%$ typical, $\pm 5\%$ Max
Shorttime Overload	$\pm 1.0\%$ Max.
Temperature Cycling	$\pm 1.0\%$ Max.
Moisture Resistance	$\pm 5.0\%$ Max.
Shock & Vibration	$\pm 0.5\%$ Max. or 0.5 Ω
Effect of Soldering	$\pm 0.5\%$ Max. or 0.5 Ω

* Total maximum resistance change is $\Delta R = 0.01R$

HOW TO ORDER :

CR125	J	TB	=	10R
↓	↓	↓		↓
Type/Power	Tol.	Package		Resistance
CR125	J = $\pm 5\%$	B=Bulk		10R = 10 Ω
CR025		TB= Tape/box		1K2 = 1.2K Ω
CR050		TR= Tape/reel		1M = 1M Ω
CR100		Lead forming		
CR200		M		
CR300		F		
		MB		