

CODIGO

CR25S-XX

DESCRIPCION

Serie CR25S 1/4W MINI x 100pcs

Carbon Film Resistors CR-S/FCR-S (mini-size series)

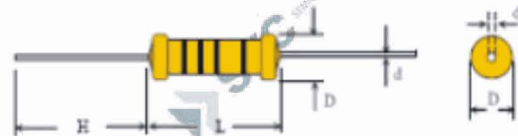
FEATURES

- Space save on PC board
- Excellent long term stability
- Cost comparable to conventional sizes
- Standard Value: 1R-10Meg in E24 series
- Standard tolerance: $\pm 5\%$ (available $\pm 2\%$)
- Body Color: yellow-brown (beige)
- Color band marking
- Flameproof coating available (As FCR-S type)
- Operating Temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$

MATERIAL

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

DIMENSION



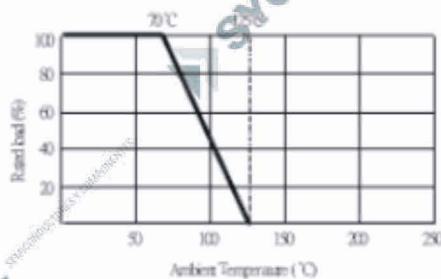
GENERAL SPECIFICATION

TYPE	DIMENSION (mm)				POWER RATING	MAXIMUM WORKING VOLTAGE*	MAXIMUM OVERLOAD VOLTAGE**	RESISTANCE RANGE $\pm 5\%$
	L	D	H	d = 0.03				
CR025S	3.2 \pm 0.2	1.6 \pm 0.2	28 \pm 1.0	0.48	1/4W	250V	500V	0.5 Ω ~ 22M Ω
CR050S	6.0 \pm 0.5	2.3 \pm 0.3	28 \pm 1.0	0.58	1/2W	350V	700V	0.5 Ω ~ 22M Ω
CR100S	9.0 \pm 0.5	3.0 \pm 0.5	28 \pm 1.0	0.68	1W	500V	1000V	0.5 Ω ~ 22M Ω
CR200S	11 \pm 1.0	4.0 \pm 0.5	35 \pm 3.0	0.78	2W	500V	1000V	0.5 Ω ~ 22M Ω
CR300S	15 \pm 1.0	5.0 \pm 0.5	35 \pm 3.0	0.78	3W	500V	1000V	0.5 Ω ~ 22M Ω

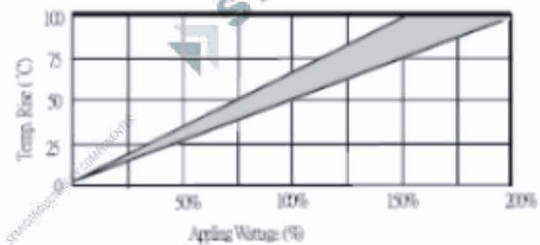
* Maximum Working Voltage determined by $E = \sqrt{P \times R}$, where E should not exceed value listed in column above.

** Maximum Overload Voltage equals to 2.5xE, but should not exceed value listed in column above

DERATING CURVE



TEMPERATURE RISE



CHARACTERISTIC

Temperature Coefficient	± 300 ppm ($< 100k \Omega$), ± 1000 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	$\pm 0.7\%$ Max. or 0.5 Ω
Effect of Soldering	$\pm 0.7\%$ Max. or 0.5 Ω

* Total maximum resistance change is $\Delta R + 0.01R$.

HOW TO ORDER :

CR125S	I	TB	-	10R
↓	↓	↓	↓	↓
Type Power	Tol.	Package		Resistance
CR125S	J = $\pm 5\%$	B = Bulk		10R = 10 Ω
CR025S		TB = Tape box		1K2 = 1.2K Ω
CR050S		TR = Tape-reel		1M = 1M Ω
CR100S		Lead forming		
CR200S		M		
CR300S		F		
		MB		