

## RESISTORS CARBON FILM DCR

Cost

Cost effective

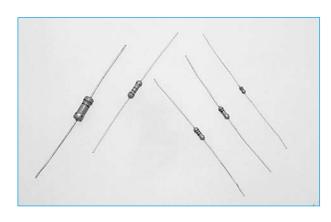
High stock levels

Zero-ohm link available

The DCR range is available in power ratings from 1/6W to 2W. All product is taped, with special taping forms available as an option. All product is manufactured to specifications ELA RS196A, JLS-C-6402 and IEC-115.

Typical applications will range from consumer products to computing and automotive uses.

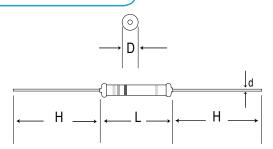
All DCR's are recognisable by their pale beige colour, and easily readable EIA colour coding.



**Operating Temperature** 

-55°C to 155°C

### **OUTLINE DRAWING**



Normal	Small size	L	øD	H	ød
DCR12	DCR25SS	3.3+0.4	1.8+0.3	28+2.0	0.5+0.05
DCR25	DCR50SS	6.3+0.5	2.3+0.3	28+2.0	0.6+0.05
DCR50	DCR100SS	9.0+0.5	3.2+0.5	26+2.0	0.6+0.05
DCR100	DCR200SS	11.5+1.0	4.5+0.5	35+2.0	0.8+0.05
DCR200		15.5+1.0	5.0+0.5	32+2.0	0.8+0.05

### **RANGE**

Туре	Power/W	Max. Working Voltage/V	Max. Overload Voltage	Range
DCR12	0.166	150	300	1 <b>Ω</b> -10Μ <b>Ω</b> E24
DCR25	0.33	250	500	1 <b>Ω</b> -10Μ <b>Ω</b> E24
DCR25SS	0.25	200	400	1Ω-10MΩ E24
DCR50	0.5	350	700	1Ω-10MΩ E24
DCR50SS	0.5	300	600	1Ω-10MΩ E24
DCR100	1	500	1000	1Ω-10MΩ E24
DCR100SS	1	400	800	1Ω-10MΩ E24
DCR200	2	500	1000	1 <b>Ω</b> -10Μ <b>Ω</b> E24
DCR200SS	2	500	1000	1Ω-10MΩ E24

# **ORDERING INFORMATION**

DCR	25	5	T	10K	*
	Type 12 = 0.166W 25 = 0.33W 25SS = 0.25W 50 = 0.50W 50SS = 0.50W 100 = 1W 100SS = 1W 200SS = 2W 200 = 2W	Tolerance 5%	Taping T = Tape & Ammo BD = Tape/Reel	Value in ohms	

<sup>\*</sup> Parts also available with 26mm width taping - add PT26 to end of part number Weldable type with copper lead wire available to special order Taping specification available on page 134.

DCR 50 becoming obsolete - 50 SST.

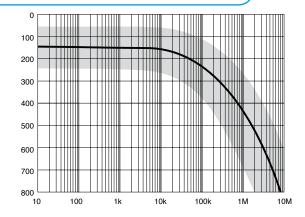


## **SPECIFICATION**

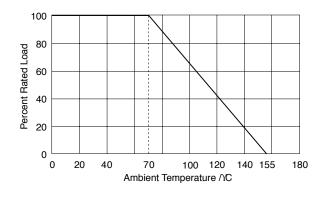
PERFORMANCE TEST	TEST METHOD		APPRAISE
Short Time Overload	JIS-C-5202 5.5	2.5 Times RCWV for 5 seconds	$\pm (0.75\% + 0.05\Omega)$
Dielectric Withstanding Voltage	JIS-C-5202 5.7	in V- Block for 60 seconds	by Type
Temperature Coefficient of Resistance	JIS-C-5202 5.2	-55 ° C to 155 ° C	by Type
Insulation Resistance	JIS-C-5202 5.6	in V-Block	>1000MΩ
Solderability	JIS-C-5202 6.5	260°C for ±5 Seconds	95% Min. Coverage
Resistance to Solvent	JIS-C-5202 6.9	Trichloroethane for 1 Min. with Ultrasonic	No Deterioration of coatings & markings
Terminal Strength	Direct Load for 10 Sec. in The Direction of Terminal Leads		≥2.5kg (24.5N)
Pulse Overload	JIS-C-5202 5.8	4 Times RCWV 10000 Cycles (1 Sec. on, 25 Sec. off)	±(1%+0.05Ω)
Load Life in Humidity	JIS-C-5202 7.9	$40\pm2$ °C, $90^{\sim}95\%$ RH at RCWV for 1000 hrs. (1.5 Hrs. on, 0.5 Hrs. off)	±(3%+0.05Ω)
Load Life	JIS-C-5202 7.10	70 °C at RCWV for 1000 Hrs. (1.5 Hrs. on, 0.5 Hrs off)	±(3%+0.05Ω)
Temperature Cycling	JIS-C-5202 7.4	-55° C→Room Temp. → 155° C→ Room Temp. for 5 Cycles	±(1%+0.05Ω)
Resistance to Soldering Heat	stance to Soldering Heat JIS-C-5202 6.4 $350^{\circ}$ C $\pm$ $10^{\circ}$ C for $3\pm0.5$ seconds		±(1%+0.05Ω)

<sup>\*</sup>Rated Continuous Working Voltage (RCWV) =  $\sqrt{\text{Power Rating x Resistance Value}}$ 

#### TEMPERATURE COEFFICIENT



## **POWER DE-RATING**



## **CURRENT NOISE**

