

## RESISTORS

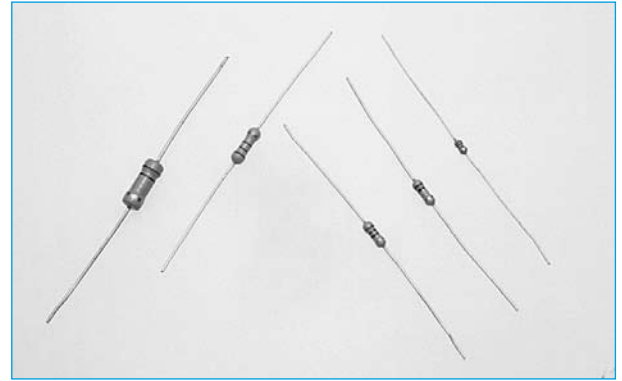
- Cost effective
- High stock levels
- Zero-ohm link available

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.

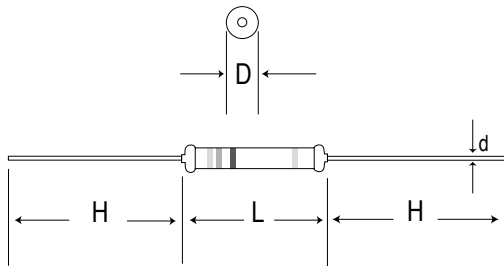
All DCR's are recognisable by their pale beige colour, and easily readable EIA colour coding.

## CARBON FILM DCR



**Operating Temperature** -55°C to 155°C

## OUTLINE DRAWING



Normal	Small size	L	φD	H	φd
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

Type	Power/W	Max. Working Voltage/V	Max. Overload Voltage	Range
DCR12	0.166	150	300	1Ω-10MΩ E24
DCR25	0.33	250	500	1Ω-10MΩ 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	1Ω-10MΩ 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	

\* 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.

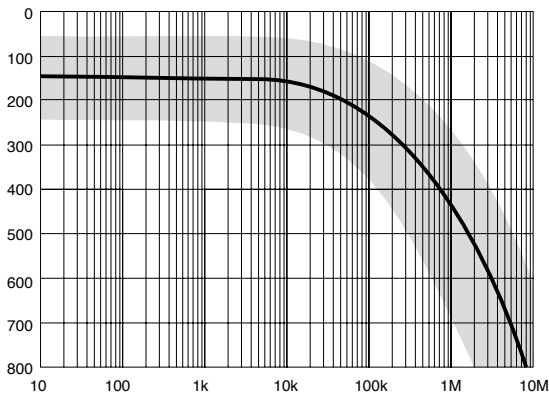
DCR 50 becoming obsolete - 50 SST.

**SPECIFICATION**

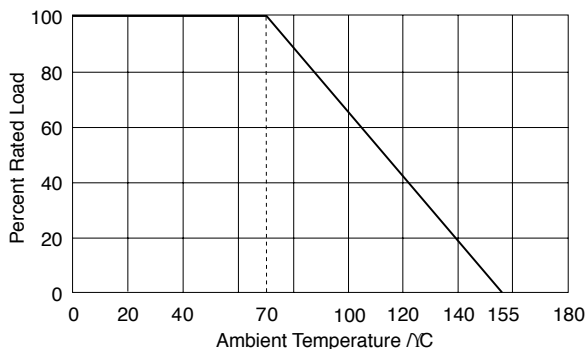
PERFORMANCE TEST	TEST METHOD		APPRAISE
Short Time Overload	JIS-C-5202 5.5	2.5 Times RCWV for 5 seconds	± (0.75%+0.05Ω)
Dielectric Withstanding Voltage	JIS-C-5202 5.7	in V-Block for 60 seconds	by Type
Temperature Coefficient of Resistance	JIS-C-5202 5.2	-55 °C to 155 °C	by Type
Insulation Resistance	JIS-C-5202 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±2 °C, 90~95% 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	JIS-C-5202 6.4	350 °C ± 10 °C for 3±0.5 seconds	±(1%+0.05Ω)

\*Rated Continuous Working Voltage (RCWV) =  $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$

**TEMPERATURE COEFFICIENT**



**POWER DE-RATING**



**CURRENT NOISE**

