

# Linear resistors

## lacquered, carbon film

book 3 part 1

Style	Dimensions mm (Fig. 1)			Resistance tolerance	Resistance range	Maximum power dissipation at 70°C W	Preferred value series	Maximum voltage d.c. or rms V
	D max.	L max.	d					
CR16	1.6	4.5	0.4	±5%	10Ω to 220kΩ	0.2	E12	150
				±10%	270kΩ to 1MΩ		E12	150
CR25	2.5	6.8	0.6	±5%	1Ω to 1MΩ	0.33	E24	250
				±10%	1.2MΩ to 10MΩ		E12	250
CR37	3.7	10	0.7	±5%	1Ω to 1MΩ	0.5	E24	350
				±10%	1.2MΩ to 10MΩ		E12	350

On bandoliers (Fig. 2) in boxes of 1000 pieces or (CR25 & 37 only) on drums of 5000 pieces.  
Coated with a tan coloured lacquer and colour coded in accordance with BS1852.

## lacquered, metal film

Style	Dimensions mm (Fig. 1)			Resistance tolerance	Resistance range	Maximum power dissipation at 70°C W	Preferred value series	Temp. coefficient ppm per °C	Maximum voltage d.c. or rms V
	D max.	L max.	d						
MR25	2.5	6.5	0.6	±1%	4.99Ω to 48.7Ω	0.4	E96	< 100	250
				±1%	49.9Ω to 301kΩ		E96	< 50	
				±2%	5.1Ω to 300kΩ		E24	< 100	
MR30	3	10	0.6	±1%	4.99Ω to 48.7Ω	0.5	E96	< 100	350
				±1%	49.9Ω to 1MΩ		E96	< 50	
				±2%	5.1Ω to 1MΩ		E24	< 100	

On bandoliers (Fig. 2) in boxes of 1000 pieces or on drums of 5000 pieces.

Coated with a green coloured lacquer and colour coded in accordance with BS1852.

CECC Approvals.

MR25 & MR30 1% tolerance are approved to CECC 40100-002 and to CECC 40101-008.

MR25 & MR30 2% tolerance are approved to CECC 40101-009.

## metal glaze, high ohmic

Style	Dimensions mm (Fig. 1)			Resistance tolerance	Resistance range	Maximum power dissipation at 70°C W	Preferred value series	Maximum voltage rms V
	D max.	L max.	d					
VR37	3.7	10	0.7	±5%	1MΩ to 33MΩ	0.5	E24	2500
VR68	6.8	18	0.8	±5%	1MΩ to 68MΩ	1.0	E24	7000

On bandoliers (Fig. 2) in boxes of 1000 pieces.

Coated with a blue coloured lacquer and colour coded in accordance with BS1852, except that 4th (tolerance) band is yellow.

## metal film, high power

Style	Dimensions mm (Fig. 1)			Resistance tolerance	Resistance range	Maximum power dissipation at 70°C W	Preferred value series
	D max.	L max.	d				
PR37	3.7	10	0.6	±5%	10Ω to 10kΩ	1.6	E12
PR62	5.2	16.7	0.6	±5%	10Ω to 27kΩ	2.5	E12
PR68	6.8	26.0	0.8	±5%	10Ω to 27kΩ	3.5	E12

On bandoliers (Fig. 2) in boxes of 1000 pieces, (except PR68 which is not bandoliered).

Coated with a red-brown coloured high temperature silicone paint.

The resistance value and tolerance are printed on the resistor body.