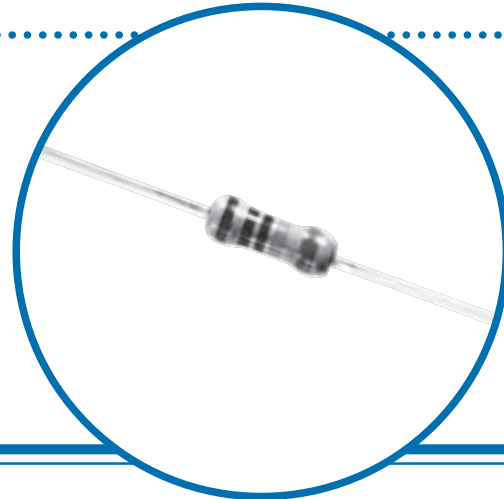


# Precision Metal Film Resistors

PR series

- Low cost precision resistors
- Tolerances down to  $\pm 0.1\%$
- TCR down to 15ppm/ $^{\circ}\text{C}$

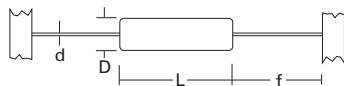


## Electrical Data

		PR4	PR5
Power rating at 70°C	watts	0.25	0.5
Resistance range	ohms	100R – 1M	
Limiting element voltage	volts	250	350
TCR (20°C to 70°C)	ppm/ $^{\circ}\text{C}$	$\leq 240\text{K}$ : 15, 25, 50	$> 240\text{K}$ : 25, 50
Resistance tolerance	%	$\leq 500\text{K}$ : 0.1, 0.25, 0.5, 1	$> 500\text{K}$ : 0.25, 0.5, 1
Standard values		E24, E96	
Thermal impedance	$^{\circ}\text{C}/\text{watt}$	140	112
Ambient temperature range	$^{\circ}\text{C}$	-55 to 155	

## Physical Data

Dimensions (mm) & Weight (g)							
Type	L Max	D Max	f min	d nom	PC mounting centres	Min. bend radius	Wt. nom
PR4	6.2	2.5	2.1	0.6	10.2	0.6	0.3
PR5	9.0	3.6	19.6	0.8	12.7	1.2	0.5



### Construction

The resistance element is a precisely controlled thin film of metal alloy sputtered on to a high purity ceramic core, protected by a moisture-resistant, high dielectric strength coating applied so that terminations remain completely clear.

This permits a well defined body length (clean lead to clean lead dimension L).

### Terminations

- Material** Hot tin dipped copper wire
- Strength** The terminations meet the requirements of IEC 68.2.21
- Solderability** The terminations meet the requirements of IEC 115-1, Clause 4.17.3.2

### Marking

25ppm/ $^{\circ}\text{C}$  resistors are colour coded with 5 bands. The other grades have an additional 6th band indicating TCR which is orange for 15ppm/ $^{\circ}\text{C}$  and red for 50ppm/ $^{\circ}\text{C}$ .

### Solvent Resistance

The body protection and marking are resistant to all normal industrial cleaning solvents suitable for printed circuits.

### General Note

Welwyn Components reserves the right to make changes in product specification without notice or liability. All information is subject to Welwyn's own data and is considered accurate at time of going to print.

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