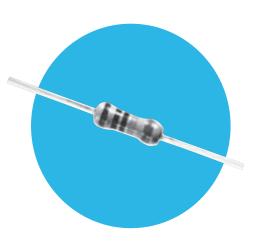
Resistors



Precision Metal Film Resistors

PR series

- Low cost precision resistors
- Tolerances down to ±0.1%
- TCR down to 15ppm/°C





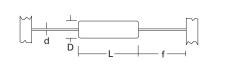
All Pb-free parts comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Electrical Data

		PR4	PR5	
Power rating at 70°C	watts	0.25	0.5	
Resistance range	ohms	1001	. – 1M	
Limiting element voltage	volts	250	350	
TCR (20°C to 70°C)	ppm/°C	≤240K: 15, 25, 50	>240K: 25, 50	
Resistance tolerance	%	≤500K: 0.1, 0.25, 0.5, 1		
Standard values		E24	. E96	
Thermal impedance	°C/watt	140	112	
Ambient temperature range	°C	-55 to 155		

Physical Data

Dimensions (mm) & Weight (g)								
Туре	L Max	D Max	f min	d nom	PC mounting centres	Min. bend radius	Wt. nom	
PR4	6.2	2.5	21	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/°C resistors are colour coded with 5 bands. The other grades have an additional 6th band indicating TCR which is orange for 15ppm/°C and red for 50ppm/°C.

Solvent Resistance

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

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PR series



Performance Data

		Maximum
Load: 1000 hours at 70°C	ΔR %	0.5
Derating from rated power at 70°C		zero at 155°C
Short term overload	ΔR %	0.25
Climatic	ΔR %	0.5
Climatic category		55/125/56
Long term damp heat	ΔR %	0.5
Temperature rapid change	ΔR %	0.25
Resistance to solder heat	ΔR %	0.25
Vibration and bump	ΔR %	0.1
Insulation resistance	ohms	> 1G
Voltage proof	volts	PR4: 500 min, PR5: 700 min

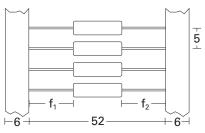
Packaging

All PR resistors are supplied tape packed ready for loading on to automatic sequencing and insertion machines.

Component wires will not protrude beyond the outside edge of the tapes.

Alternative packaging available by request.

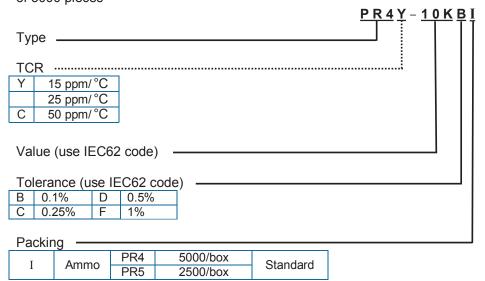
Lead formed resistors can also be supplied. Standard options of Lancet, Radial and Goalpost forming are available.



Body location $f_1 - f_2 \le 1.4 \text{ mm}$

Ordering Procedure

Example: PR4 with TCR of 15ppm/ $^{\circ}$ C at 10 kilohms and 0.1% tolerance in an ammo pack box of 5000 pieces -



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