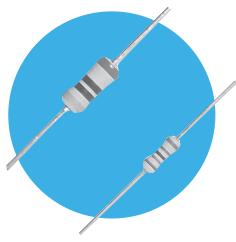
Resistors

Flameproof Power **Metal Film Resistors**

MFP Series

- Smallest size for power rating
- Resistance range 0.1 ohms to 1M ohms
- Flameproof protection







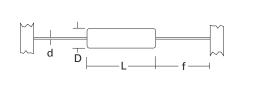
All parts are Pb-free and comply with EU Directive 2011/65/EU (RoHS2)

Electrical Data

		MFP1	MFP2	
Power rating at 70°C	watts	<1 Ω: 0.7 >=1 Ω: 1.0	2	
Resistance range	ohms	0R1 – 1M	1R0 – 1M	
Limiting element voltage	volts	350		
TCR	ppm/°C	< 1 Ω: 300 1 Ω - 9.1 Ω: 200 ≥10 Ω: 50	100	
Resistance tolerance	%	1, 2, 5		
Standard values		E24 preferred		
Thermal impedance	°C/watt	120	82	
Ambient temperature range	°C	-55 to 155		

Physical Data

Dimensions (mm) & Weight (g)							
					PCB	Min.	
					mounting	bend	
Туре	L Max	D Max	f min	d nom	centres	radius	Wt.nom
MFP1	6.2	2.5	21.0	0.6	10.2	0.6	0.3
MFP2	10.0	4.0	27.0	0.8	18.4	1.2	0.55



Construction

The resistance element is a precisely controlled thin film of metal alloy on a high purity ceramic core, protected by a cement coating applied so that terminations remain completely clear. This permits a well defined body length (clean lead to clean lead dimension L).

Terminations

Material Solder-coated copper wire.

Strength The terminations meet the requirements of

IEC 68.2.21

The terminations meet the requirements of Solderability

IEC 115-1, Clause 4.17.3.2

Marking

Resistors are colour coded with 4 or 5 bands depending on value and tolerance. IEC 62 colours are used.

Solvent Resistance

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

Flammability

The resistor coating will not burn or emit incandescent particles under any condition of applied temperature or power overload.



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Performance Data

		Maximum
Load at rated power : 1000 hours at 70°C	∆R %	5
Shelf life: 12 months at room temperature	∆R %	2
Derating from rated power at 70°C	∆R %	zero at 155°C
Climatic	∆R %	3
Climatic category		50/155/56
Temperature rapid change	∆R %	0.5
Resistance to solder heat	∆R %	0.5
Voltage proof	volts	500 min

Application Notes

- 1. If the resistors are to dissipate full rated power, it is recommended that the terminations should not be soldered closer than 4mm from the body.
- 2. Due to operating temperature limitations imposed by some pcb materials, derating may be necessary. An estimate of the temperature rise to be expected can be calculated using the thermal impedance figures given under Electrical
- 3. MFP resistors an also be supplied pre-formed.

Type MFP1		MFP2	
b (mm)	52	68	

Packaging

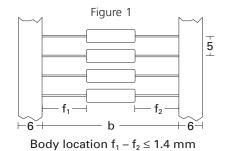
MFP resistors are normally supplied tape packed ready for loading onto automatic sequencing and insertion machines.

The standard taping method and critical dimensions are shown in Figure 1.

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

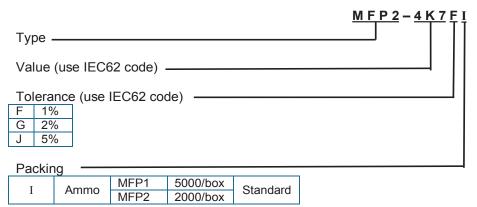
Alternative packaging available by request.

Lead Formed resistors can also be supplied. Standard options of Lancet, Radial and Goalpost forming are shown in lead Form Information section.



Ordering Procedure

Example: MFP2 at 4.7 kilohms and 1% tolerance in ammo pack box of 2000 pieces -



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