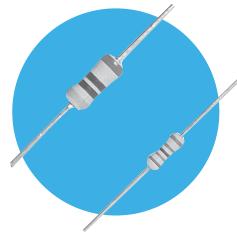
Resistors

Flameproof Power **Metal Film Resistors**

MFP Series

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







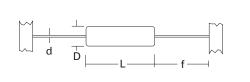
All parts are Pb-free and comply with EU Directive 2011/65/EU (RoHS2)

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		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	ΔR %	5
Shelf life: 12 months at room temperature	ΔR %	2
Derating from rated power at 70°C	ΔR %	zero at 155°C
Climatic	ΔR %	3
Climatic category		50/155/56
Temperature rapid change	ΔR %	0.5
Resistance to solder heat	ΔR %	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.

Туре	MFP1	MFP2	
b (mm)	52	68	

Packaging

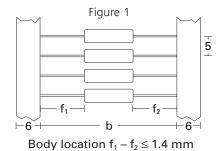
MFP resistors are normally supplied tape packed ready for loading onto automatic sequencing and insertion machines.

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

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

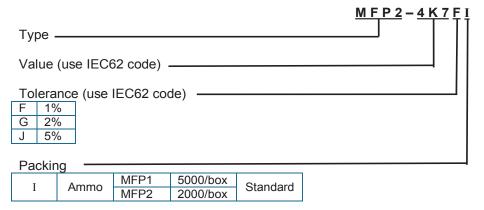
Alternative packaging available by request.

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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CF18JT910R RC20GF240J RC20GF561J RC07GF361J RC1/4435JB RC1/4135JB RC1/4201JTD RC1/2331KTD RC20GF470JTRLF

RC1/2155KTD RC1/4274KTD RC1/47R5JB RC1/4565JB RC1/4160JB RC1/2475KTB RC1/2471JTD RC1/2431JTD RC1/2334KB

RC1/2225KB RC1/2166KTD RC1/2103KTD RC1/2102JTD RC1/2434JB RC1/22R4JB RC1/2165JB RC07GF510JTR RCC025 2R7 J B

CFR0W4J0242A10 CFR0W4J0391A50 CFR0W4J0303A50 CFR0W4J0433A50 CFR03SJ0753AA0 CFR03SJ0470AA0 CF1/6W-20K±5%

T52 CF1/4W-43±5% T52 CFR01SJ0433A10 RD50T5151J RD 1/8W 33K J T/B A1 RD 2WS 3K6 J T/B A1