Micron Power Resistors

MRP
MRC
MRS

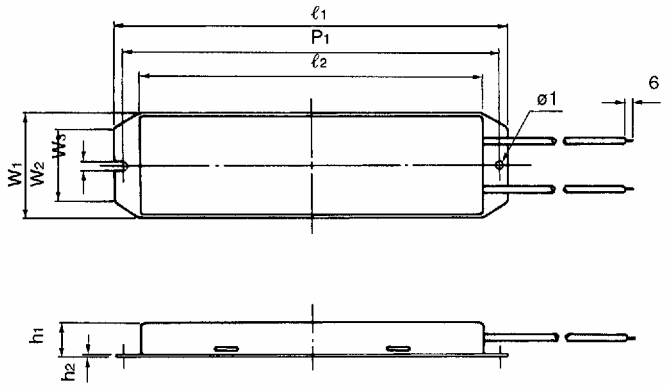
Large-Capacity Type Resistors With Aluminum Case (Economy Type)

* Please refer to MDS-1212 for more detailed information.

Part Numbering System

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
M	R	C	0	8	N	I	R	0	K	I	X	2	2	0	C	Z	Z

- 1 2: Generic name
- 3: Resistor element
- 4 5: External shape
- 6: Standard
- 7 8 9: Resistance
- 10: Tolerance
- 11: Distinction of Inductive/non-Inductive
- 12: Lead pull out method
- 13 14 15: Lead length in mm
- 16: Withstand voltage AC 2000V



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* Terminal arrangements should be separately specified.

Lead Wire Conductor Cross-Section:

Withstand voltage \ Conductor cross-sectional area	0.75mm²	3.5mm²
2000V	○	○

External Dimensions

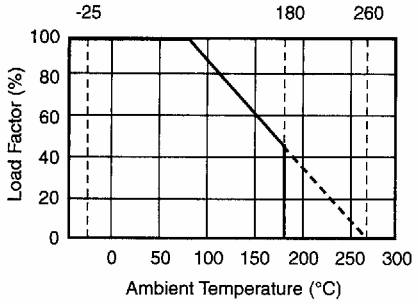
(mm)

Shape	ℓ1	ℓ2	P1	W1	W2	W3	h1	h2	ø1
MR08	132	100	122±0.4	44±0.4	26	4.3 +0.3 0	20	1	4.3
MR12	182	150	172±0.9	42±0.4	23.5	4.3 +0.3 0	20	1.2	4.3
MR22	230	200	220±0.4	60±0.4	42.7	4.3 +0.3 0	20	1.2	4.3

Nominal Resistance Values

Shape	Element construction	Inductive/ non-inductive	Rated power	Nominal resistance range	Tolerance	
					Symbol	Tolerance
MR08	P(band wire)	N	80W	0.08Ω~0.4Ω	J	±5%
	C(Coil)	I		0.4Ω~8.8Ω		
		N		0.24Ω~2.8Ω		
	S(Wire wound)	I		8.8Ω~4.8kΩ		
		N		2.8Ω~660Ω		
MR12	P(band wire)	N	120W	0.1Ω~0.5Ω		
	C(Coil)	I		0.5Ω~50Ω		
		N		0.25Ω~10Ω		
	S(Wire wound)	I		50Ω~13.6kΩ		
		N		10Ω~1.4kΩ	K	±10%
MR22	P(band wire)	N	220W	0.2Ω~1Ω		
	C(Coil)	I		1Ω~65Ω		
		N		0.5Ω~8Ω		
	S(Wire wound)	I		65Ω~21.1kΩ		
		N		8Ω~2.2kΩ		

Derating Curve



Temperature Rise (ref.)