



Micron Power Resistors

MBP

MBC

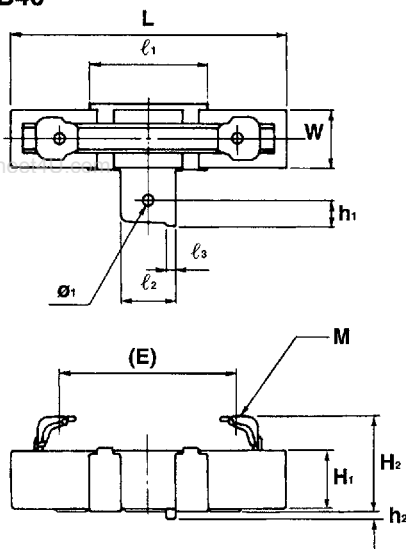
MBS

Screw-Fastening Terminal Types (For High Torque)

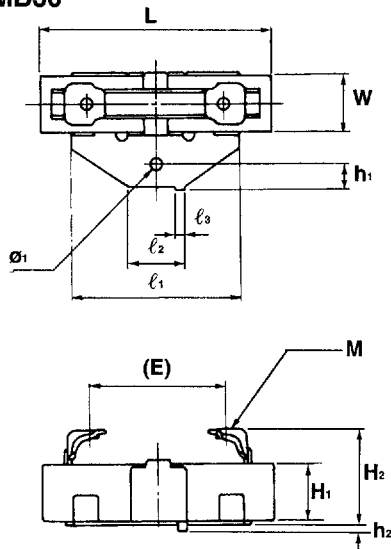
Please refer to MDS-21211 for more detailed information.

Making the best use of the fail-safe feature offered by cement resistors, this type has been developed for use in industrial equipment and general applications. This type of resistor is provided with M4 (M5) screwfastening terminals. A pneumatic screwdriver is available for fastening.

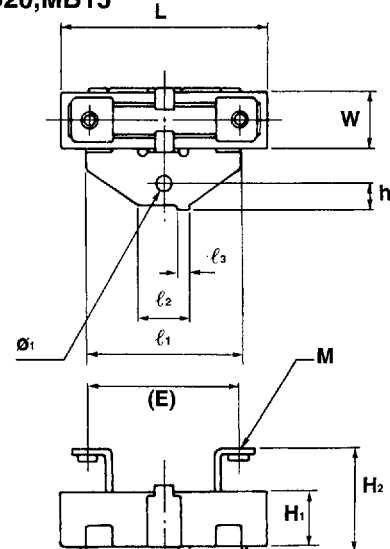
MB40



MB30



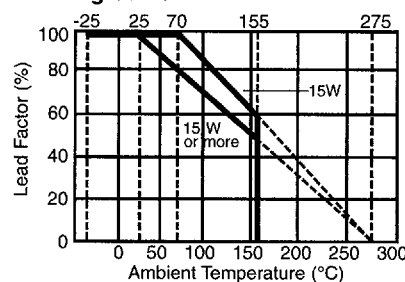
MB20, MB15



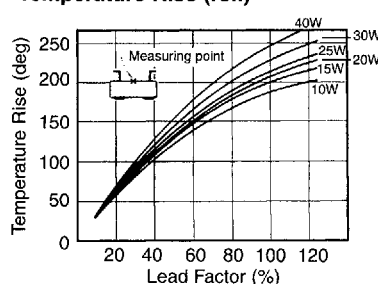
External Dimensions

Shape	L	W	H ₁	H ₂	(E)	M	l ₁	l ₂	l ₃	ø1	h ₁	h ₂	Holder Plate Thickness
MB40	90±2.5	19±1.5	19±1.5	31 ⁺³ ₋₁	58	M5xP0.8	39	18	3	4.2	8	2.2	0.8
MB30	75±2.5	19±1.5	19±1.5	31 ⁺³ ₋₁	44	M5xP0.8	55	18	3	4.2	8	2.2	1.0
MB20	63.5±2	12.5±1.2	12.5±1.2	23.5 ⁺² ₋₁	50	M4xP0.7	36	12	3	4	6	2.2	1.0
MB15	48±1.5	12.5±1.2	12.5±1.2	23.5 ⁺² ₋₁	35	M4xP0.7	36	12	3	4	6	2.2	1.0

Derating Curve



Temperature Rise (ref.)



Nominal Resistance Values

Shape	Element Construction	Inductiver/ Non-Inductive	Rated Power	Nominal Resistance Range	Tolerance			
					Symbol	Tolerance		
MB15	P(Band wire)	I	—	—	J	±5%		
		N	15W	15mΩ~160mΩ				
	C(coil)	I	15W	0.14Ω~0.9Ω				
		N	15W	0.14Ω~0.9Ω				
	S(Wirewound)	I	9W	0.7Ω~1.2kΩ				
N		11W	0.6Ω~120Ω					
MB20	R(Metal oxide film)	I	5W	100Ω~27kΩ			K	±10%
		N	—	—				
	P(Band wire)	I	—	—				
		N	20W	5.5mΩ~200mΩ				
	C(Coil)	I	20W	0.19Ω~1.3Ω				
N		20W	0.19Ω~1.3Ω					
MB30	S(Wirewound)	I	15W	0.8Ω~2kΩ				
		N	15W	0.8Ω~220Ω				
	R(Metal oxide film)	I	7W	220Ω~55kΩ				
		N	—	—				
	MB40	P(Band wire)	I	—	—			
N			30W	5mΩ~160mΩ				
C(Coil)		I	30W	0.16Ω~1.8Ω				
		N	30W	0.16Ω~1.8Ω				
S(Wirewound)		I	24W	1.2Ω~3.3kΩ				
	N	24W	0.8Ω~330Ω					
MB40	R(Metal oxide film)	I	15W	500Ω~110kΩ				
		N	—	—				
	P(Band wire)	I	—	—				
		N	40W	5mΩ~0.35Ω				
	C(Coil)	I	40W	0.2Ω~2.6Ω				
N		40W	0.2Ω~2.6Ω					
MB40	S(Wirewound)	I	32W	1.5Ω~5kΩ				
		N	32W	1.3Ω~470Ω				
	R(Metal oxide film)	I	20W	500Ω~180kΩ				
		N	—	—				

Part Numbering System

1	2	3	4	5	6	7	8	9	10	11
M	B	S	4	0	A	1	0	0	K	I
Generic name		Resistor element	External shape		Mounting metal fitting	Resistance			Tolerance	Distinction of Inductive/non-Inductive