



Micron Power Resistors

MBP

Screw-Fastening Terminal Types (For High Torque)

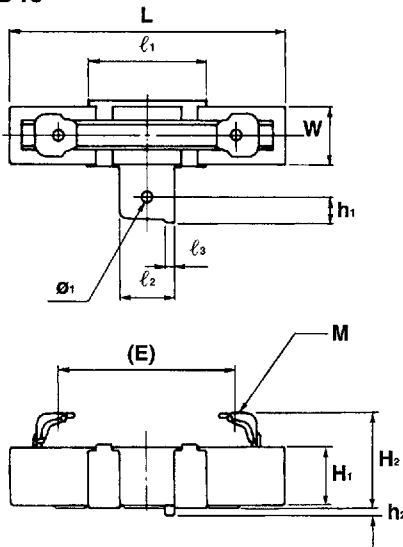
MBC

Please refer to MDS-21211 for more detailed information.

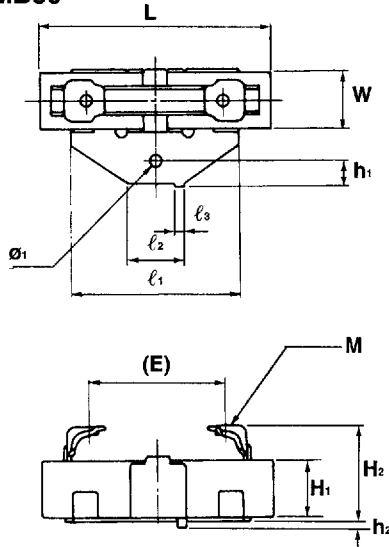
MBS

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.

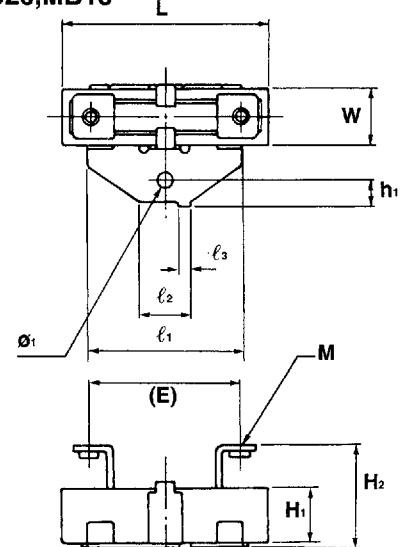
MB40



MB30



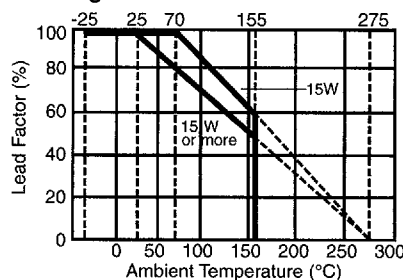
MB20, MB15



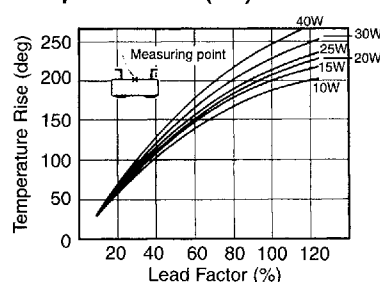
External Dimensions

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	Inductivel/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		
MB20	N	11W	0.6Ω~120Ω		K	±10%
	I	5W	100Ω~27kΩ			
	R(Metal oxide film)	N	—	—		
	P(Band wire)	I	—	—		
	N	20W	5.5mΩ~200mΩ			
MB30	C(Coil)	I	20W	0.19Ω~1.3Ω		
	N	20W	0.19Ω~1.3Ω			
	S(Wirewound)	I	15W	0.8Ω~2kΩ		
	N	15W	0.8Ω~2kΩ			
	R(Metal oxide film)	I	7W	220Ω~55kΩ		
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			
	R(Metal oxide film)	I	15W	500Ω~110kΩ		
	P(Band wire)	I	—	—		
	N	40W	5mΩ~0.35Ω			
	C(Coil)	I	40W	0.2Ω~2.6Ω		
	N	40W	0.2Ω~2.6Ω			
	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