

SBC - METAL CLAD BRAKING RESISTORS - HIGH POWER

The SBC series are range of high power dynamic braking resistors with an aluminium encasing. These resistors are low priced and small in size. This series resistors offer excellent load life stability. Power dissipation of up to 5000W is available in this, SBC, series.

Features:

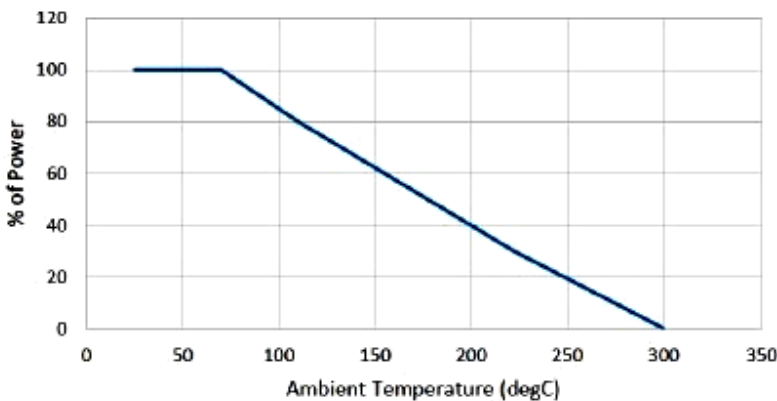
- *Excellent Electrical stability, reliability and mechanically very rigid.*



PERFORMANCE CHARACTERISTICS

	Condition	Compliance
Tolerance	Values according to price list	±10%
Temperature Co-efficient		±200 PPM/°C max
Insulation Resistance	Dry/Normal	>1000MΩ min.
Endurance	1.5Hrs ON, 0.5Hrs OFF for 500Hrs @Room Temperature	$\Delta R < \pm(5\% + 0.05\Omega)$
Short Term Overload	10 x Rated Power for 5 sec	$\Delta R < \pm(2\% + 0.05\Omega)$
Operating Temperature	-25°C to 250°C	
Humidity	40°C, 90% Rh, 240Hrs	$\Delta R < \pm(3\% + 0.05\Omega)$
Dielectric Strength	3kVAC rms for 1minute	No Breakdown or Flashover

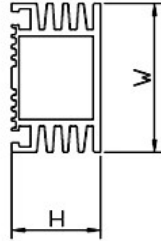
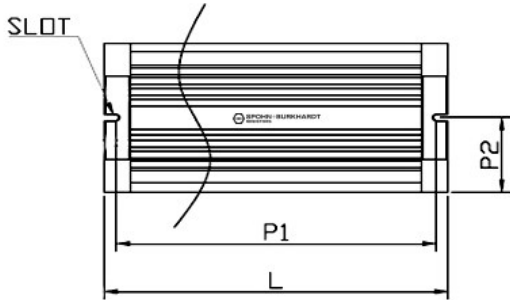
POWER DERATING CURVE



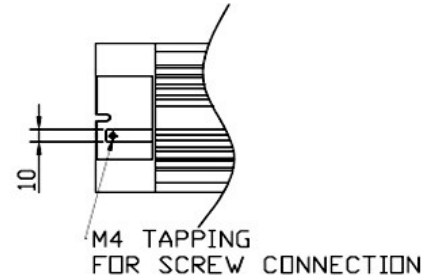
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RESISTANCE RANGE AND DIMENSIONAL DETAILS

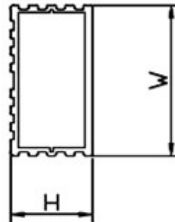
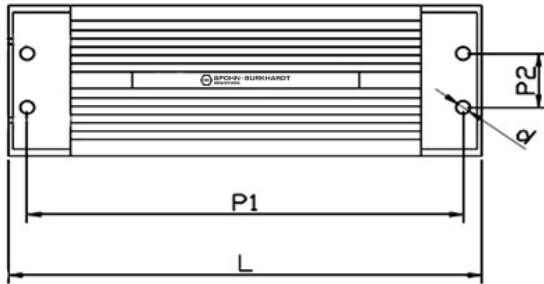
SBC1250 & SBC1500



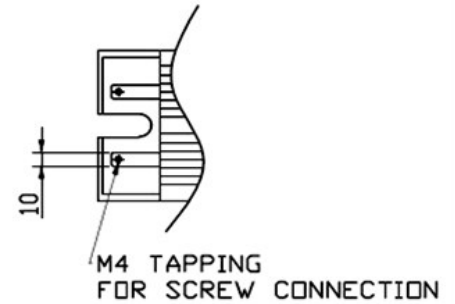
FLAT TYPE TERMINATION



SBC2000 & SBC5000



FLAT TYPE TERMINATION



Note: All dimension are in mm.

Series	Max. Continuous Power (W) (on Heat sink)*	Max. Continuous Power (W) (Without Heat sink)	Required Heat Sink Area for max. Power in cm ²	Resistance Range **	L	W	H	C	P1	P2	Mounting Detail
SBC1250	1250	550	46800	2Ω - 2KΩ	400	67	38	290	385	NA	7x10 slot
SBC1500	1500	700	63000	6Ω - 2KΩ	495	67	38	290	480	NA	7x10 slot
SBC2000	2000	800	127500	10Ω - 1KΩ	400	103	52	290	390	40	Dia 6 Holes
SBC3000	3000	1100	203500	10Ω - 1.2KΩ	400	103	52	290	390	40	Dia 6 Holes
SBC4000	4000	1400	255500	18Ω - 1.8KΩ	450	103	52	290	440	40	Dia 6 Holes
SBC5000	5000	1800	259000	20Ω - 2.2KΩ	550	103	52	290	540	40	Dia 6 Holes

** Values according to E12 series.

ORDERING DETAILS

SBC series - Series Model
 R - Resistance Value (e.g.: 1R=1Ω; 10R2=10.2Ω; 1K=1kΩ; 1k2=1.2kΩ)
 K - Tolerance Code ±10% -K
 F - Termination Type (F - Flat Terminations)

Example: SBC2000 10R K F - SBC 2000 10R 10% with flat terminations.

* A suitable cooling system is required to use the full power.

Disclaimer: Product specifications, data and dimensions are subject to change without any prior notice to improve performance, reliability and design.