# **Rheostat Variable Power Resistors**

BC1series Variable Rheostats called varistors or potentiometers, used as two connections terminals of varistors or as a potentiometer with three connection terminals. When single rheostat cannot meet its power, which can be increased by connection of multiple rheostats, max up to 6 connected rheostats.

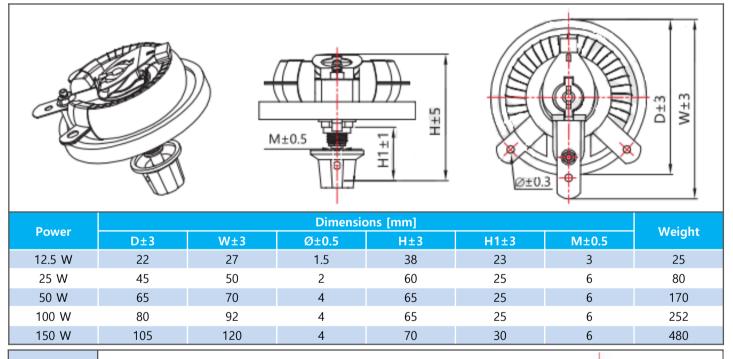
Use : Widely used in blenders, mixers, fans, power tools, educational modeling, load simulations, industrial machinery RPM adjustment, voltage and current adjustment, instruments, and automated control installations, etc.

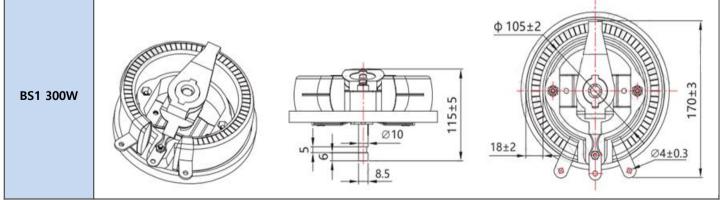


## GENERAL SPECIFICATIONS

Model	Power rating	Resistance value	Resistance Tolerance	T.C.R
	12.5 W	0.5Ω - 1ΚΩ		
	25 W	0.5Ω - 3.3ΚΩ	J [±5%]	±200PPM
BC1	50 W	0.5Ω - 3.3ΚΩ	. [,]	~
	100 W	1.5Ω - 4.7ΚΩ	K [±10%]	±400PPM
	150 W	1.5Ω - 5.1ΚΩ		

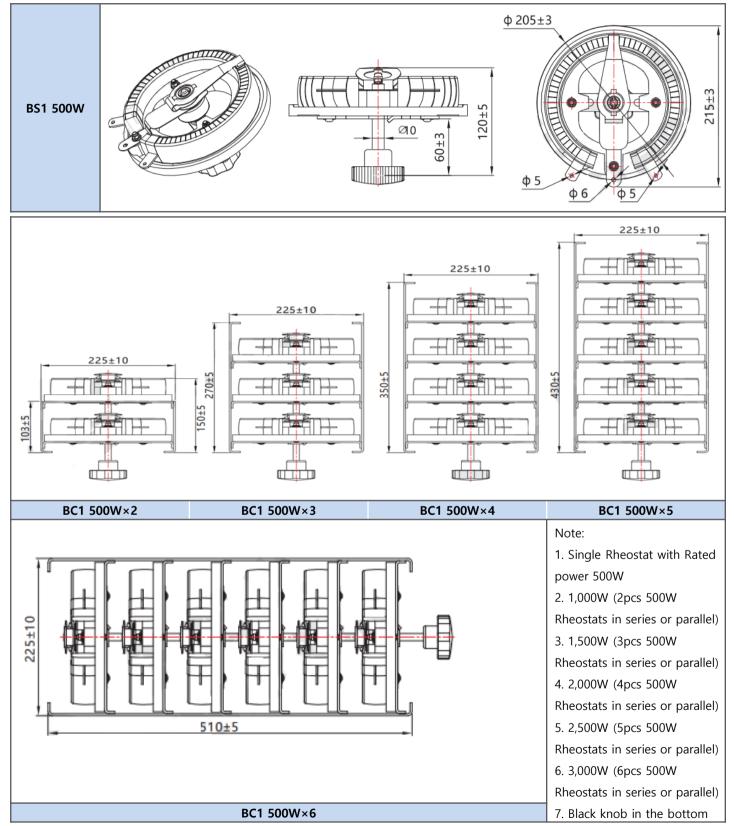
#### DIMENSIONS







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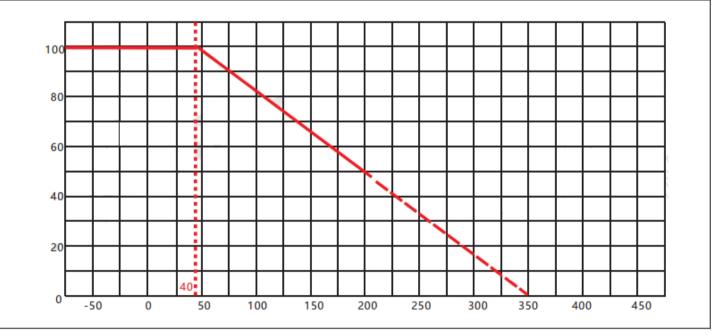


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(RARA) BC1

TEST	CONI	DITIONS OF TEST	TESTING RESULTS
T.C.R	R1−R0 R0(T1−T0) ×10°(PPM/°C)	R0 : Room Temperature (T0) Resistance R1 : Room Temperature (T1) Resistance	±200PPM~±400PPM
Rated Load	40°C, rated voltage, 1hour.		△R≤±(3%R+0.1Ω)
Short Time Overload	5 times rated power for 10se 10times rated power for 5sec 25times rated power for 1sec	conds.	△R≤±(2%R+0.1Ω)
Dielectric Withstand Voltage	1kV-10kVac 60seconds, Leak	age current 2.5mA.	△R≤±(0.1%R+0.1Ω)
Insulation Resistance	1000Vdc.		50-1,000MΩ, 1minutes.
Terminal Tensile Strength	40N.		No off
Vibration resistance	1.5mm, 10Hz-55Hz-10Hz, ea	ch 2hours.	No damage, No off
Load Life	At rated voltage, 90minutes	"On", 30minutes "Off", total 500hours.	△R≤±(3%R+0.1Ω)
Low Temp. Resistance	Store at -55°C±2°C for 16hou	ırs.	△R≤±(1%R+0.1Ω)
High Temp. Resistance	Store at 70°C±2°C for 16hou	rs.	△R≤±(1%R+0.1Ω)
Non-flammability	10times rated power, power	on for 5minutes.	Without combustion

#### **DERATING CURVE**



### ODERING PROCEDURE EXAMPLE

Model# POW	/ER Nominal v	value Toleran	ice