



- 5 Sided EMI Shielding
- Regulated Outputs
- 1600V Isolation
- Short Circuit Protection
- 4:1 Input Range
- Input PI Filter

Unit measures 0.8"W x 1.25"L x 0.4"H

Model Number	Output Voltage	Output Amps	Input Range
SINGLE OUTPUT			
SB03-123.3S	3.3VDC	0.9	9-36 VDC
SB03-483.3S		0.9	18-72 VDC
SB03-125S	5 VDC	0.66	9-36 VDC
SB03-485S		0.66	18-72 VDC
SB03-1212S	12 VDC	0.33	9-36 VDC
SB03-4812S		0.33	18-72 VDC
SB03-1215S	15 VDC	0.267	9-36 VDC
SB03-4815S		0.267	18-72 VDC
SB03-1224S	24VDC	0.166	9-36 VDC
SB03-4824S		0.166	18-72 VDC
DUAL OUTPUT			
SB03-125D	+/-5 VDC	+/-0.300	9-36 VDC
SB03-485D		+/-0.300	18-72 VDC
SB03-1212D	+/-12 VDC	+/-0.166	9-36 VDC
SB03-4812D		+/-0.166	18-72 VDC
SB03-1215D	+/-15 VDC	+/-0.133	9-36 VDC
SB03-4815D		+/-0.133	18-72 VDC



Isolated and Regulated 3 WATT Modular DC/DC Converters

SB03 series

INPUT SPECIFICATIONS

Input Voltage Ranges:	12 VDC Nominal	9-36 VDC
	48 VDC Nominal	18-72 VDC

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart	
Load Regulation	10% to FL	+/- 1%
Line Regulation	(HL-LL)	+/- 0.5%
Temperature Coefficient	+/-0.02%/°C	
Ripple/Noise(Single/Dual)	0.7% +70mVp-p max.	
Voltage Accuracy	+/- 2%	
Short Circuit Protection	Continuous *	
Efficiency	123.3S, 125D, 483.3S, 485D	75%
	125S, 485S,	76%
	1212S, 1215S, 1224S, 1212D, 1215D, 4812S	
	4824S, 4812D, 4815D	79%

GENERAL SPECIFICATIONS

Input-Out Isolation	1600VDC
Isolation Resistance	10-9nth Ohm min.
Switching Frequency	300Khz

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-20 to +60°C(FL)
Storage Temperature	-55 to +105°C *
Cooling	Free Air Convection

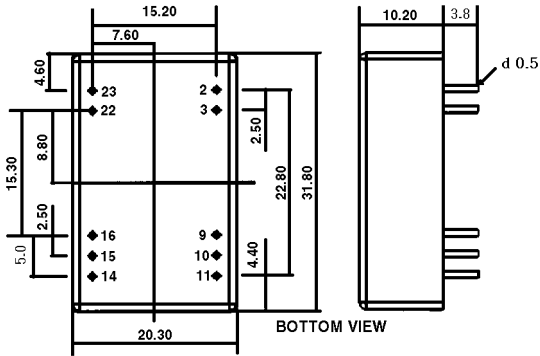
PHYSICAL SPECIFICATIONS

Case Material	Nickel-Coated Copper with Non-Conductive Base
Construction	Fully Encapsulated
Weight	0.9 oz, (25g)

All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted nor implied.

MECHANICAL DIMENSIONS



ALL DIMENSIONS IN mm
PIN PITCH TOLERANCE +/- 0.35mm

Pin #	Single Outputs	Dual Outputs
2	-Vin	-Vin
3	-Vin	-Vin
9	NC	Common
10	NC	No Pin
11	NC	- Output
14	+ Output	+ Output
15	NC	No Pin
16	- Output	Common
22	+Vin	+Vin
23	+Vin	+Vin

OUTPUT DERATING CURVE

