



- 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
<b>SINGLE OUTPUT</b>			
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
<b>DUAL OUTPUT</b>			
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.

**Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.**

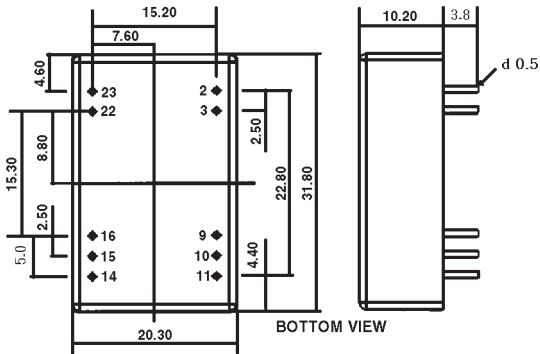


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## MECHANICAL DIMENSIONS



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	NC
11	NC	- Output
14	+ Output	+ Output
15	NC	NC
16	- Output	Common
22	+Vin	+Vin
23	+Vin	+Vin

## OUTPUT DERATING CURVE

