

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

- Low Ripple and Noise
- Regulated Outputs
- 500V Isolation
- Short Circuit Protection
- Standard Pinouts
- Input PI Filter

Model Number	Output Voltage	Output mAmps	Input Range
SINGLE OUTPUT			
ASD105-5S5	5 VDC	300	4.5-5.5 VDC
ASD105-12S5		300	10.8-13.2 VDC
ASD105-24S5		300	21.6-26.4 VDC
ASD105-28S5		300	25.2-30.8 VDC
ASD105-48S5		300	43.2-52.8 VDC
ASD105-5S12	12 VDC	125	4.5-5.5 VDC
ASD105-12S12		125	10.8-13.2 VDC
ASD105-24S12		125	21.6-26.4 VDC
ASD105-28S12		125	25.2-30.8 VDC
ASD105-48S12		125	43.2-52.8 VDC
ASD105-5S15	15 VDC	100	4.5-5.5 VDC
ASD105-12S15		100	10.8-13.2 VDC
ASD105-24S15		100	21.6-26.4 VDC
ASD105-28S15		100	25.2-30.8 VDC
ASD105-48S15		100	43.2-52.8 VDC
DUAL OUTPUT			
ASD105-5D12	+/-12 VDC	+/-60	4.5-5.5 VDC
ASD105-12D12		+/-60	10.8-13.2 VDC
ASD105-24D12		+/-60	21.6-26.4 VDC
ASD105-28D12		+/-60	25.2-30.8 VDC
ASD105-48D12		+/-60	43.2-52.8 VDC
ASD105-5D15	+/-15 VDC	+/-50	4.5-5.5 VDC
ASD105-12D15		+/-50	10.8-13.2 VDC
ASD105-24D15		+/-50	21.6-26.4 VDC
ASD105-28D15		+/-50	25.2-30.8 VDC
ASD105-48D15		+/-50	43.2-52.8 VDC



Isolated and Regulated 1.5 WATT Modular DC/DC Converters

ASD105 series

INPUT SPECIFICATIONS

Input Voltage Ranges:	5 VDC Nominal	4.5-5.5 VDC
	12 VDC Nominal	10.8-13.2 VDC
	24 VDC Nominal	21.6-26.4 VDC
	28 VDC Nominal	25.2-30.8 VDC
	48 VDC Nominal	43.2-52.8 VDC
Input Filter	PI Type	

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart	
Load Regulation	20% to FL	+/- 0.5%
Line Regulation (HL-LL)	+/- 0.3%	
Temperature Coefficient	+/-0.02%/°C	
Ripple/Noise(Single/Dual)	50mVp-p max.	
Voltage Accuracy	+/- 4%	
Short Circuit Protection	1 second max.	
Efficiency	50%	

GENERAL SPECIFICATIONS

Input-Output Isolation	500VDC
Isolation Resistance	10-9nth Ohm min.
Isolation Capacitance	30pF
Switching Frequency	20Khz

All specifications are typical at nominal input, full load, and 25°C 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.

ENVIRONMENTAL SPECIFICATIONS

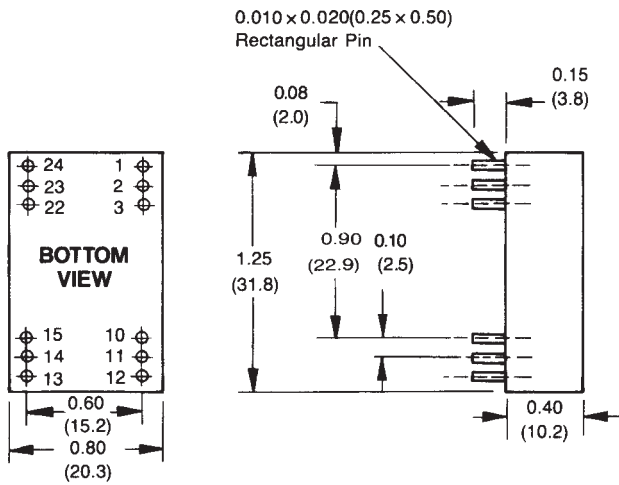
Oper. Temperature	-25 to +71°C	
Case Temperature	100°C max.	
Storage Temperature	-40 to +100°C *	
Cooling	Free Air Convection	
MTBF	Single O/P	1,024,000 Hrs.
	Dual O/P	937,000 Hrs.
	MIL-HDBK-217F	
	Ground Benign, 25°C	

PHYSICAL SPECIFICATIONS

Case Material	Black coated Copper
	w. Non-conductive base
Construction	Fully Encapsulated
Weight	0.5 oz, (13g)
Dimensions	1.25" x 0.8" x 0.4"

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.

MECHANICAL DIMENSIONS



ALL DIMENSIONS IN INCHES(mm)

PIN PITCH TOLERANCE $\pm 0.35\text{mm}$

Pin #	Single Outputs	Dual Outputs
1	+ Input	+ Input
2	NC	- Output
3	NC	Common
10	- Output	Common
11	+ Output	+ Output
12	- Input	- Input
13	- Input	- Input
14	+ Output	+ Output
15	- Output	Common
22	NC	Common
23	NC	- Output
24	+ Input	+ Input