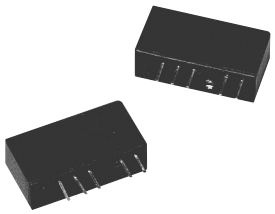
Astrodyne

Isolated and Unregulated 0.75 WATT Modular DC/DC Converters

DUP75 series



Unit measures 0.24"W x 0.77"L x 0.4"H

- Low Cost
- 0.75 Watt in SIP pkg
- Unregulated Outputs
- 750VDC Isolation
- Non-Conductive Case
- Internal Filters

Model Number	Output Voltage	Output mAmps	Input Range
SINGLE OUTPUT			
DUP75-05S05	5 VDC	150	4.5-5.5 VDC
DUP75-12S05		150	10.8-13.2 VDC
DUP75-15S05		150	13.5-16.5 VDC
DUP75-24S05		150	21.6-26.4 VDC
DUP75-05S12	12 VDC	62	4.5-5.5 VDC
DUP75-12S12		62	10.8-13.2 VDC
DUP75-15S12		62	13.5-16.5 VDC
DUP75-24S12		62	21.6-26.4 VDC
DUP75-05S15	15 VDC	50	4.5-5.5 VDC
DUP75-12S15		50	10.8-13.2 VDC
DUP75-15S15		50	13.5-16.5 VDC
DUP75-24S15		50	21.6-26.4 VDC
DUAL OUTPUT			
DUP75-05D05	+/-5 VDC	+/-75	4.5-5.5 VDC
DUP75-12D05		+/-75	10.8-13.2 VDC
DUP75-15D05		+/-75	13.5-16.5 VDC
DUP75-24D05		+/-75	21.6-26.4 VDC
DUP75-05D12	+/-12 VDC	+/-30	4.5-5.5 VDC
DUP75-12D12		+/-30	10.8-13.2 VDC
DUP75-15D12		+/-30	13.5-16.5 VDC
DUP75-24D12		+/-30	21.6-26.4 VDC
DUP75-05D15	+/-15 VDC	+/-25	4.5-5.5 VDC
DUP75-12D15		+/-25	10.8-13.2 VDC
DUP75-15D15		+/-25	13.5-16.5 VDC
DUP75-24D15		+/-25	21.6-26.4 VDC

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INPUT SPECIFICATIONS

Input Voltage Ranges:	5 VDC Nominal	4.5-5.5 VDC
	12 VDC Nominal	10.8-13.2 VDC
	15 VDC Nominal	13.5-16.5 VDC
	24 VDC Nominal	21.6-26.4 VDC

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation	+/- 10% on 5V output
10% - FL	+/- 6% on all others
Line Regulation	+/- 1.2%/1% of Vin
Temperature Coefficient	+/-0.1%/DegC
Ripple/Noise(Single/Dual)	50mV Pk-Pk, typ
Voltage Stability	+/-5%, max
Short Circuit Protection	1 Second max

GENERAL SPECIFICATIONS

Input-Out Isolation	750VDC
Efficiency	78%, typ
Switching Frequency	100Khz
Isolation Resistance	10000 M Ohms

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25 to +71 DegC(FL)
Storage Temperature	-55 to +125 DegC *
Maximum Case Temp	110 DegC *
MTBF	5.5 MHrs
	MIL-HDBK 217F TA=25C FL

PHYSICAL SPECIFICATIONS

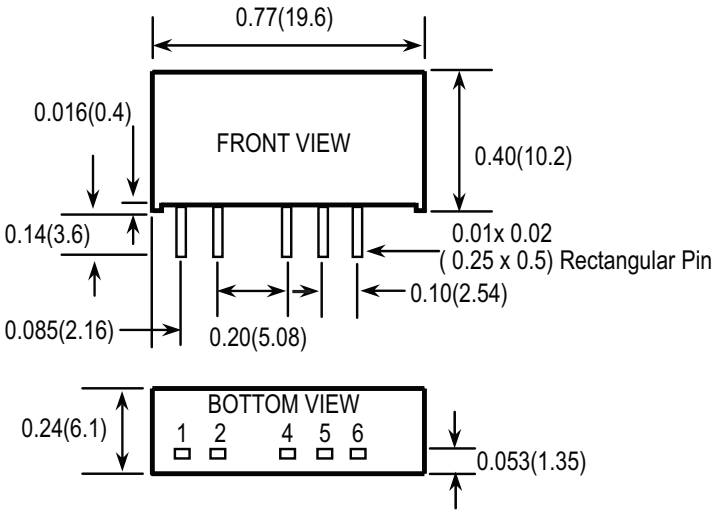
Case Material	Non-Conductive Black Plastic
Construction	Fully Encapsulated

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 warranteed nor implied.

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

MECHANICAL DIMENSIONS



Pin #	Single Outputs	Dual Outputs
1	+ Input	+ Input
2	- Input	- Input
3	No Pin	No Pin
4	- Output	- Output
5	NC	Common
6	+ Output	+ Output

1. All dimensions in Inches (mm)
   Tolerance: x.xx±0.02(x.x±0.5)
   x.xxx±0.01(x.xx±0.25)
2. Pin pitch tolerance ±0.014(0.35)

OUTPUT DERATING CURVE