

ASTRIBOYNE COStCutter Isolated and Unregulated 0.75 WATT Modular DC/DC Converters

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

DUP75 Series



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

MODEL SEL	ECTIONS					
Output Voltage	Output mAmps	Input Range	Model Number	Price 1) 25	
SINGLE OUT	PUT -					_
5 VDC	150	4.5-5.5 VDC	DUP75-05S05	\$16	\$14	
	150	10.8-13.2 VDC	DUP75-12S05	\$16	\$14	
	150	13.5-16.5 VDC	DUP75-15S05	\$16	\$14	
	150	21.6-26.4 VDC	DUP75-24S05	\$16	\$14	
12 VDC	62	4.5-5.5 VDC	DUP75-05S12	\$16	\$14	
	62	10.8-13.2 VDC	DUP75-12S12	\$16	\$14	
	62	13.5-16.5 VDC	DUP75-15S12	\$16	\$14	
	62	21.6-26.4 VDC	DUP75-24S12	\$16	\$14	
						Contact
15 VDC	50	4.5-5.5 VDC	DUP75-05S15	\$16	\$14	Factory
	50	10.8-13.2 VDC	DUP75-12S15	\$16	\$14	for
	50	13.5-16.5 VDC	DUP75-15S15	\$16	\$14	
	50	21.6-26.4 VDC	DUP75-24S15	\$16	\$14	High Volume
DUAL OUTPUT +/-5 VDC		4.5.5.400		0.10	0.1.0	Pricing
	+/-75	4.5-5.5 VDC	DUP75-05D05	\$18 \$40	\$16	_
	+/-75 +/-75	10.8-13.2 VDC 13.5-16.5 VDC	DUP75-12D05 DUP75-15D05	\$18 \$18	\$16 \$16	
	+/-75 +/-75	21.6-26.4 VDC	DUP75-15D05 DUP75-24D05	\$10 \$18	\$16 \$16	
	+ /-/3	21.0-20.4 VDC	DUF 13-24D03	φιο	φισ	
+/-12 VDC	+/-30	4.5-5.5 VDC	DUP75-05D12	\$18	\$16	
	+/-30	10.8-13.2 VDC	DUP75-12D12	\$18	\$16	
	+/-30	13.5-16.5 VDC	DUP75-15D12	\$18	\$16	
	+/-30	21.6-26.4 VDC	DUP75-24D12	\$18	\$16	
+/-15 VDC	. / 25	A E E E VDC	DUDTE GED4F	¢40	¢46	
+/-13 VDC	+/-25 +/-25	4.5-5.5 VDC 10.8-13.2 VDC	DUP75-05D15 DUP75-12D15	\$18 \$18	\$16 \$16	
	+/-25 +/-25	10.8-13.2 VDC 13.5-16.5 VDC	DUP75-12D15 DUP75-15D15	\$18 \$18	\$16 \$16	
	+/-25 +/-25	21.6-26.4 VDC	DUP75-15D15 DUP75-24D15	\$10 \$18	\$16 \$16	
	T/-23	21.0-20.7 \$50	DUF 10-24D IJ	ΨΙΟ	ΨΙΟ	

300 Myles Standish Blvd., Taunton, MA 02780



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

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%/DeaC Ripple/Noise(Single/Dual) 50mV Pk-Pk, typ Voltage Stability +/-5%. max **Short Circuit Protection** 1 Second max

GENERAL SPECIFICATIONS

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

ENVIRONMENTAL SPECIFICATIONS

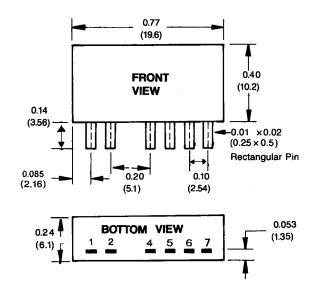
Oper. Temperature -25 to +71 DegC(FL) -55 to +125 DegC * Storage Temperature **Maximum Case Temp** 110 DeaC * **MTBF** 13430 kHrs

MIL-HDBK 217F TA=25C FL

PHYSICAL SPECIFICATIONS

Case Material Non-Conductive Black Plastic Construction **Fully Encapsulated**

MECHANICAL DIMENSIONS



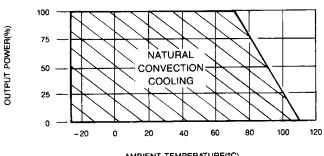
ALL DIMENSIONS IN INCHES(mm)

PIN PITCH TOLERANCE ±0.25mm

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
7	No Pin	No Pin

OUTPUT DERATING CURVE

OPERATING TEMPERATURE LIMITS AND OUTPUT POWER RANGE



AMBIENT TEMPERATURE(°C)

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.

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^{*} 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.