

- Wide 2 : 1 Input Range
- High Efficiency
- Regulated Outputs
- 1600V Isolation
- Full EMI Shielding
- Standard Pinouts

FDC10 Series



Unit measures 1"W x 2"L x 0.375"H

MODEL SELECTIONS

Output Voltage	Output Amps	Input Range	Model Number
SINGLE OUTPUT			
3.3 VDC	2	9-18 VDC	FDC10-12S33
	2	18-36 VDC	FDC10-24S33
	2	36-72 VDC	FDC10-48S33
5 VDC	2	9-18 VDC	FDC10-12S05
	2	18-36 VDC	FDC10-24S05
	2	36-72 VDC	FDC10-48S05
12 VDC	0.83	9-18 VDC	FDC10-12S12
	0.83	18-36 VDC	FDC10-24S12
	0.83	36-72 VDC	FDC10-48S12
15 VDC	0.67	9-18 VDC	FDC10-12S15
	0.67	18-36 VDC	FDC10-24S15
	0.67	36-72 VDC	FDC10-48S15
DUAL OUTPUT			
+/-5 VDC	+/-1	9-18 VDC	FDC10-12D05
	+/-1	18-36 VDC	FDC10-24D05
	+/-1	36-72 VDC	FDC10-48D05
+/-12 VDC	+/-0.416	9-18 VDC	FDC10-12D12
	+/-0.416	18-36 VDC	FDC10-24D12
	+/-0.416	36-72 VDC	FDC10-48D12
+/-15 VDC	+/-0.333	9-18 VDC	FDC10-12D15
	+/-0.333	18-36 VDC	FDC10-24D15
	+/-0.333	36-72 VDC	FDC10-48D15

**Contact
Factory
for
High Volume
Pricing**

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

INPUT SPECIFICATIONS

Input Voltage Ranges:
 12 VDC Nominal 9-18 VDC
 24 VDC Nominal 18-36 VDC
 48 VDC Nominal 36-72 VDC
 Input Filter Pi Type

OUTPUT SPECIFICATIONS

Voltage and Current See Selection Chart
 Load Regulation singles: +/-1%
 duals: +/-2%
 10% - FL
 Line Regulation +/-1%
 Temperature Coefficient +/-0.02%/DegC
 Ripple/Noise(Single/Dual) (50 / 75) mV Pk-Pk, typ
 Voltage Stability +/- 2%
 Voltage Balance, Dual +/-1%
 Transient Response Recovery
 25% Load Step Change 500 microSeconds
 Short Circuit Protection Continuous, self-recovering
 Overvoltage Protection Threshold:
 3.3V Output 3.9Volts
 5V Output 6.2Volts
 12V Output 15Volts
 15V Output 18Volts

GENERAL SPECIFICATIONS

Input-Out Isolation 1600VDC
 In/Out Capacitance 1000 pF
 Isolation Resistance 10000 M Ohms
 Efficiency 80%, typ
 Switching Frequency 300Khz

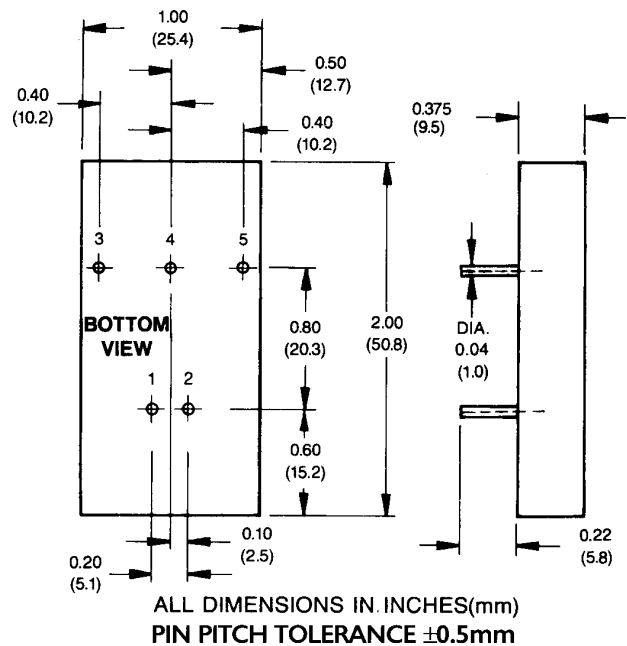
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature -25 to +71 DegC(FL)
 Storage Temperature -55 to +125 DegC *
 Maximum Case Temp 110 DegC *
 MTBF 534.2 kHrs
 MIL-HDBK-217F TA=25C FL

PHYSICAL SPECIFICATIONS

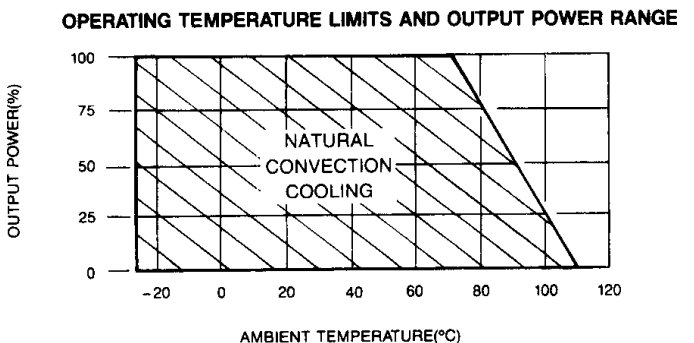
Case Material Nickel-Coated Copper
 Non-Conductive Base
 Construction Fully Encapsulated
 Weight 1.1 oz, (30g)

MECHANICAL DIMENSIONS



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

OUTPUT DERATING CURVE



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.

* 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.