

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

- Wide 2 : 1 Input Range
- High Efficiency
- Regulated Outputs
- 500V Isolation
- 5 Sided EMI Shielding
- DIP Package

Model Number	Output Voltage	Output mAmps	Input Range
SINGLE OUTPUT			
FKC05-12S05	5 VDC	1	9-18 VDC
FKC05-24S05		1	18-36 VDC
FKC05-48S05		1	36-75 VDC
FKC05-12S12	12 VDC	470	9-18 VDC
FKC05-24S12		470	18-36 VDC
FKC05-48S12		470	36-75 VDC
FKC05-12S15	15 VDC	400	9-18 VDC
FKC05-24S15		400	18-36 VDC
FKC05-48S15		400	36-75 VDC
DUAL OUTPUT			
FKC05-12D05	+/-5 VDC	+/-500	9-18 VDC
FKC05-24D05		+/-500	18-36 VDC
FKC05-48D05		+/-500	36-75 VDC
FKC05-12D12	+/-12 VDC	+/-230	9-18 VDC
FKC05-24D12		+/-230	18-36 VDC
FKC05-48D12		+/-230	36-75 VDC
FKC05-12D15	+/-15 VDC	+/-190	9-18 VDC
FKC05-24D15		+/-190	18-36 VDC
FKC05-48D15		+/-190	36-75 VDC



Isolated and Regulated 5 WATT Modular DC/DC Converters

FKC05 series

INPUT SPECIFICATIONS

Input Voltage Ranges:	12 VDC Nominal	9-18 VDC
	24 VDC Nominal	18-36 VDC
	48 VDC Nominal	36-75 VDC

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation (singles/duals)	+/- 0.2% / +/- 1% (25%-FL)
Line Regulation	+/- 0.2% (singles/duals)
Temperature Coefficient	+/-0.02%/DegC
Ripple/Noise(Single/Dual)	50mV Pk-Pk, typ
Voltage Accuracy	+/- 2%, typ
Voltage Balance, Dual Outputs	+/- 2%, typ
Short Circuit Protection	Continuous

GENERAL SPECIFICATIONS

Input-Out Isolation	500VDC
Isolation Resistance	10000 M Ohms
In/Out Capacitance	300 pF
Efficiency	FKC05-XXS(D)05 78%, typ
	FKC05-XXS15,D12,D15 81%, typ
	FKC05-XXS12 82%, typ
Switching Frequency	300Khz

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25 to +71 DegC(FL)
Storage Temperature	-55 to +105 DegC *
Maximum Case Temp	100 DegC *
MTBF	3.165 Million Hrs
	MIL-HDBK-217F TA=25C (FL)

PHYSICAL SPECIFICATIONS

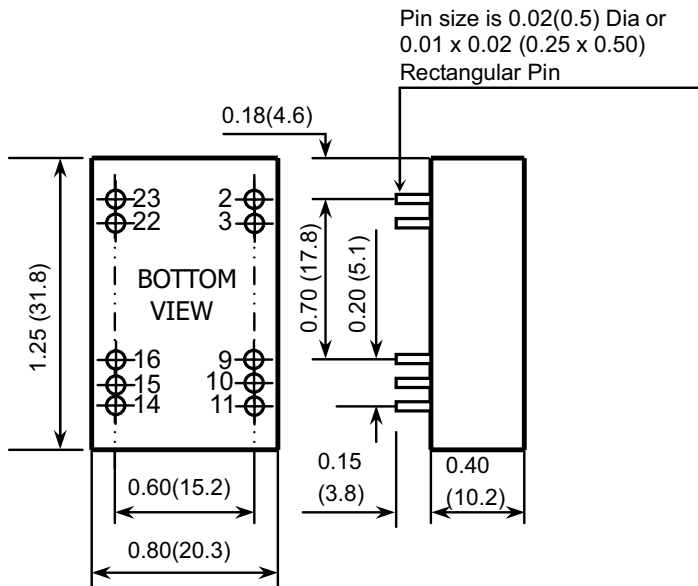
Case Material MKC03	Nickel-Coated Copper with Non-Conductive Base
Construction	Fully Encapsulated
Weight	0.6 oz, (14g)

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.

MECHANICAL DIMENSIONS



Pin #	Single Outputs	Dual Outputs
2	- Input	- Input
3	- Input	- Input
9	NC	Common
10	NC	NC
11	NC	- Output
14	+ Output	+ Output
15	NC	NC
16	- Output	Common
22	+ Input	+ Input
23	+ Input	+ Input

OUTPUT DERATING CURVE

