

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

- Wide 2 : 1 Input Range
- PI Input Filter
- Regulated Outputs
- 500V Isolation
- Full EMI Shielding
- Standard Pinouts

Model Number	Output Voltage	Output mAmps	Input Range	Efficiency
<b>SINGLE OUTPUT</b>				
MKC03-12S05	5 VDC	500	9-18 VDC	77%
MKC03-24S05		500	18-36 VDC	74%
MKC03-48S05		500	36-72 VDC	74%
MKC03-12S12	12 VDC	250	9-18 VDC	80%
MKC03-24S12		250	18-36 VDC	78%
MKC03-48S12		250	36-72 VDC	78%
MKC03-12S15	15 VDC	200	9-18 VDC	80%
MKC03-24S15		200	18-36 VDC	79%
MKC03-48S15		200	36-72 VDC	80%
<b>DUAL OUTPUT</b>				
MKC03-12D05	+/-5 VDC	+/-250	9-18 VDC	76%
MKC03-24D05		+/-250	18-36 VDC	74%
MKC03-48D05		+/-250	36-72 VDC	74%
MKC03-12D12	+/-12 VDC	+/-125	9-18 VDC	80%
MKC03-24D12		+/-125	18-36 VDC	78%
MKC03-48D12		+/-125	36-72 VDC	77%
MKC03-12D15	+/-15 VDC	+/-100	9-18 VDC	80%
MKC03-24D15		+/-100	18-36 VDC	78%
MKC03-48D15		+/-100	36-72 VDC	77%



Isolated and Regulated 3 WATT Modular DC/DC Converters

**MKC03** series

### 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/duals)	+/- 0.2% / +/- 2%	(25%-FL)
Line Regulation	+/- 0.2%	
Temperature Coefficient	+/-0.02%/°C	
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	See Selection Chart
Switching Frequency	300Khz

### ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25 to +71°C(FL) *
Cooling	Free Air Convection
Storage Temperature	-55 to +125°C *
MTBF	3.069 MHrs
	MIL-HDBK-217F TA=25C (FL)
EMI/RFI	Five-sided Shielding

### PHYSICAL SPECIFICATIONS

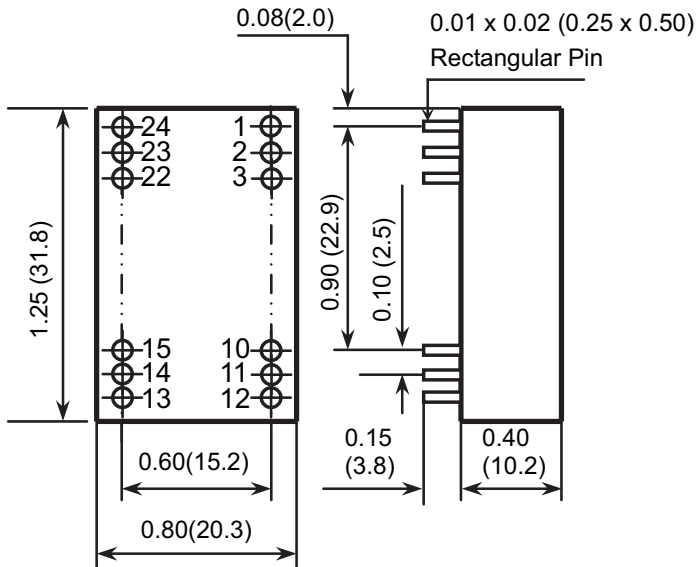
Case Material	Nickel-Coated Copper with Non-Conductive Base
Construction	Fully Encapsulated
Weight	0.6 oz, (16g)
Dimensions	1.25"x0.80"x0.40"

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
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

### OUTPUT DERATING CURVE

