

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

PMKC03 & MKC03 Series



MODEL SELECTIONS

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

Output Voltage	Output mAmps	Input Range	Model Number	Price 1	Price 25
SINGLE OUTPUT					
3.3 VDC	600	4.5-6.0 VDC	PMKC03-05S33	\$34	\$32
	600	9-18 VDC	PMKC03-12S33	\$34	\$32
	600	18-36 VDC	PMKC03-24S33	\$34	\$32
	600	36-75 VDC	PMKC03-48S33	\$34	\$32
5 VDC	600	4.5-6.0 VDC	PMKC03-05S05	\$34	\$32
	500	9-18 VDC	MKC03-12S05	\$34	\$32
	500	18-36 VDC	MKC03-24S05	\$34	\$32
	500	36-75 VDC	MKC03-48S05	\$34	\$32
12 VDC	250	4.5-6.0 VDC	PMKC03-05S12	\$34	\$32
	250	9-18 VDC	MKC03-12S12	\$34	\$32
	250	18-36 VDC	MKC03-24S12	\$34	\$32
	250	36-75 VDC	MKC03-48S12	\$34	\$32
15 VDC	200	4.5-6.0 VDC	PMKC03-05S15	\$34	\$32
	200	9-18 VDC	MKC03-12S15	\$34	\$32
	200	18-36 VDC	MKC03-24S15	\$34	\$32
	200	36-75 VDC	MKC03-48S15	\$34	\$32
DUAL OUTPUT					
+/-5 VDC	+/-300	4.5-6.0 VDC	PMKC03-05D05	\$36	\$34
	+/-250	9-18 VDC	MKC03-12D05	\$36	\$34
	+/-250	18-36 VDC	MKC03-24D05	\$36	\$34
	+/-250	36-75 VDC	MKC03-48D05	\$36	\$34
+/-12 VDC	+/-125	4.5-6.0 VDC	PMKC03-05D12	\$36	\$34
	+/-125	9-18 VDC	MKC03-12D12	\$36	\$34
	+/-125	18-36 VDC	MKC03-24D12	\$36	\$34
	+/-125	36-75 VDC	MKC03-48D12	\$36	\$34
+/-15 VDC	+/-100	4.5-6.0 VDC	PMKC03-05D15	\$36	\$34
	+/-100	9-18 VDC	MKC03-12D15	\$36	\$34
	+/-100	18-36 VDC	MKC03-24D15	\$36	\$34
	+/-100	36-75 VDC	MKC03-48D15	\$36	\$34

**Contact
Factory
for
High Volume
Pricing**

ASTRODYNE *CostCutter* Isolated and Regulated 3 Watt Modular DC/DC Converters

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

INPUT SPECIFICATIONS

Input Voltage Ranges:	
5 VDC Nominal	4.5-6.0 VDC
12 VDC Nominal	9-18 VDC
24 VDC Nominal	18-36 VDC
48 VDC Nominal	36-72 VDC

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation (singles/duals)	+/- 0.2% / +/- 2% (25%-FL)
Line Regulation (MKC03)	+/- 0.2% (singles/duals)
(PMKC03)	+/- 0.5% (singles/duals)
Temperature Coefficient	+/-0.02%/DegC
Ripple/Noise(Single/Dual)	50mV Pk-Pk, typ
Voltage Stability	+/- 2%, typ
Voltage Balance, Dual Outputs	+/- 2%, typ
Short Circuit Protection	Continuous

GENERAL SPECIFICATIONS

Input-Out Isolation	500VDC (MKC03) 1600VDC (PMKC03)
Isolation Resistance	10000 M Ohms
In/Out Capacitance	300 pF
Efficiency	80%, typ
Switching Frequency	300Khz, MKC03 100 Khz, PMKC03

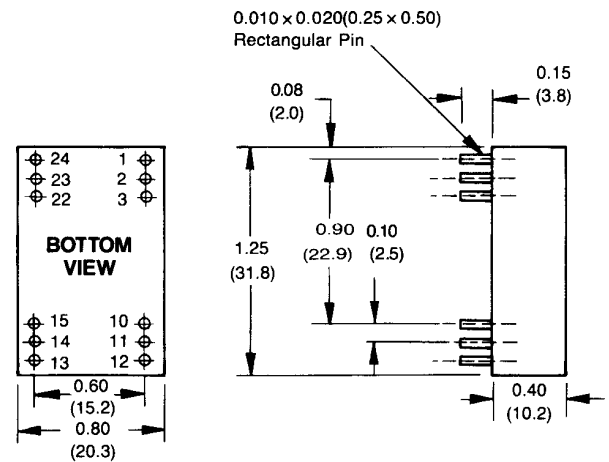
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25 to +71 DegC(FL)
Storage Temperature	-55 to +125 DegC *
Maximum Case Temp	110 DegC *
MTBF MKC03	1179 kHrs
PMKC03	1090 kHrs
	MIL-HDBK-217F TA=25C (FL)

PHYSICAL SPECIFICATIONS

Case Material MKC03	Nickel-Coated Copper with Non-Conductive Base
Case Material PMKC03	Non-Conductive Black Plastic
Construction	Fully Encapsulated
Weight MKC03	0.6 oz, (16g)
PMKC03	0.5 oz, (14g)

MECHANICAL DIMENSIONS



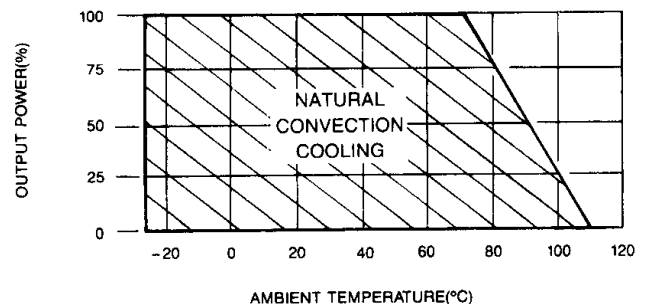
ALL DIMENSIONS IN INCHES(mm)

PIN PITCH TOLERANCE ± 0.35 mm

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

OPERATING TEMPERATURE LIMITS AND OUTPUT POWER RANGE



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.