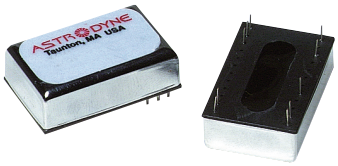
Astrodyne

Isolated and Regulated 3 WATT Modular DC/DC Converters

PMKC03 series



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

- Low 5V or Wide 2 : 1 Input Range
- PI Input Filter
- Regulated Outputs
- 1600V Isolation
- 3.3 to 15VDC Outputs
- Standard Pinouts

Model Number	Output Voltage	Output mAmps	Input Range	Efficiency
SINGLE OUTPUT				
PMKC03-05S33	3.3 VDC	600	4.5-6.0 VDC	61%
PMKC03-12S33	3.3 VDC	600	9-18 VDC	65%
PMKC03-24S33	3.3 VDC	600	18-36 VDC	66%
PMKC03-48S33	3.3 VDC	600	36-75 VDC	68%
PMKC03-05S05	5 VDC	500	4.5-6.0 VDC	70%
PMKC03-05S12	12 VDC	250	4.5-6.0 VDC	75%
PMKC03-05S15	15 VDC	200	4.5-6.0 VDC	75%
DUAL OUTPUT				
PMKC03-05D05	+/-5 VDC	+/-300	4.5-6.0 VDC	70%
PMKC03-05D12	+/-12 VDC	+/-125	4.5-6.0 VDC	75%
PMKC03-05D15	+/-15 VDC	+/-100	4.5-6.0 VDC	75%

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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	36-75 VDC
Input Filter	PI Type	

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart	
Load Regulation		
(singles/duals)	+/- 0.2% / +/- 2% (25%-FL)	
Line Regulation	(PMKC03)	+/- 0.5%
Temperature Coefficient	+/-0.02%/°C	
Ripple/Noise(Single/Dual)	1% Pk-Pk, max.	
Voltage Accuracy	+/- 2%, typ	
Voltage Balance, Dual Outputs	+/- 2%, typ	
Short Circuit Protection	Continuous	

GENERAL SPECIFICATIONS

Input-Out Isolation	1600VDC
Isolation Resistance	10000 M Ohms
In/Out Capacitance	300 pF
Efficiency	See Selection Chart
Switching Frequency	100 Khz

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25 to +71°C *
Cooling	Free Air Convection
Storage Temperature	-55 to +125°C *
MTBF	1090 kHrs
	MIL-HDBK-217F TA=25C (FL)

PHYSICAL SPECIFICATIONS

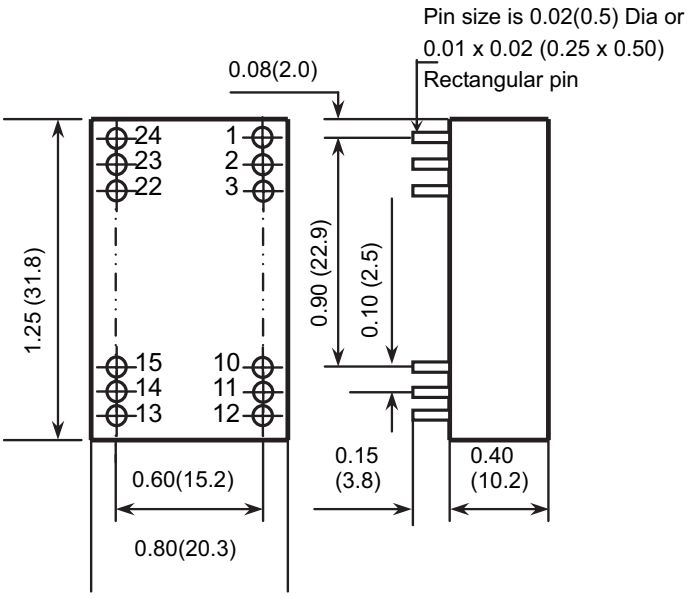
Case Material	Non-Conductive Black Plastic
Construction	Fully Encapsulated
Weight	0.5 oz, (14g)
Dimensions	1.25”x0.80”x0.40”

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 warranteed nor implied.

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.

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