

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

- Wide 4 : 1 Input Range
- Regulated Outputs
- 500V Isolation
- Full EMI Shielding
- Standard Pinouts

VKC03 Series



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

MODEL SELECTIONS

Output Voltage	Output mAmps	Input Range	Model Number	Price 1	Price 25
SINGLE OUTPUT					
5 VDC	500	9-36VDC	VKC03-24S05	\$34	\$32
	500	18-72VDC	VKC03-48S05	\$34	\$32
12 VDC	250	9-36VDC	VKC03-24S12	\$34	\$32
	250	18-72VDC	VKC03-48S12	\$34	\$32
15 VDC	200	9-36VDC	VKC03-24S15	\$34	\$32
	200	18-72VDC	VKC03-48S15	\$34	\$32
DUAL OUTPUT					
+/-5 VDC	+/-250	9-36VDC	VKC03-24D05	\$36	\$34
	+/-250	18-72VDC	VKC03-48D05	\$36	\$34
+/-12 VDC	+/-125	9-36VDC	VKC03-24D12	\$36	\$34
	+/-125	18-72VDC	VKC03-48D12	\$36	\$34
+/-15 VDC	+/-100	9-36VDC	VKC03-24D15	\$36	\$34
	+/-100	18-72VDC	VKC03-48D15	\$36	\$34

**Contact
Factory
for
High Volume
Pricing**

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

INPUT SPECIFICATIONS

Input Voltage Ranges:
24 VDC Nominal 9-36 VDC
48 VDC Nominal 18-72 VDC

OUTPUT SPECIFICATIONS

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

GENERAL SPECIFICATIONS

On/Off Control	(Ref to - Input pin) Logic "1"/Open=ON Logic "0"/GND=OFF
Input-Out Isolation	500VDC
In/Out Capacitance	300 pF
Isolation Resistance	10000 M Ohms
Efficiency	77%, typ
Switching Frequency	300Khz

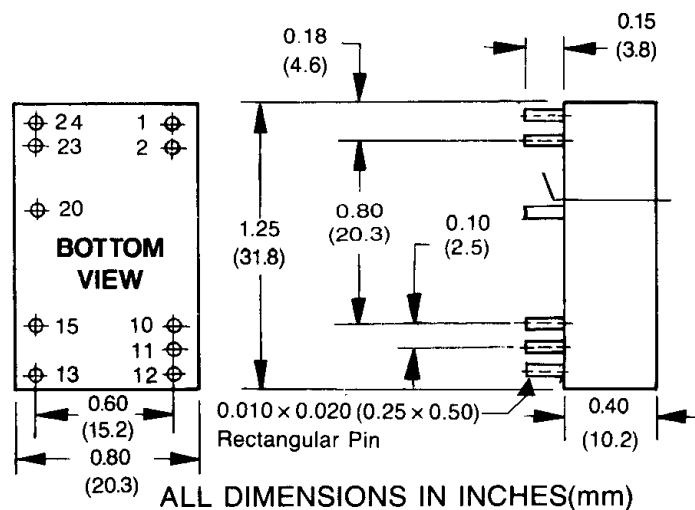
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25 to +71 DegC(FL)
Storage Temperature	-55 to +125 DegC *
Maximum Case Temp	110 DegC *
MTBF	1214 kHrs MIL-HDBK-217F TA=25C FL

PHYSICAL SPECIFICATIONS

Case Material	Nickel-Coated Copper Non-Conductive Base
Construction	Fully Encapsulated
Weight	0.5 oz, (14g)

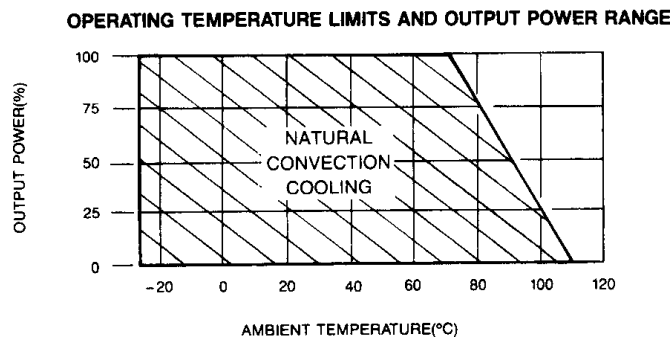
MECHANICAL DIMENSIONS



PIN PITCH TOLERANCE $\pm 0.35\text{mm}$

Pin #	Single Outputs	Dual Outputs
1	+ Input	+ Input
2	+ Input	+ Input
10	N/C	Common
11	N/C	Common
12	- Output	N/C
13	+ Output	- Output
15	N/C	+ Output
20	Control	Control
23	- Input	- Input
24	- Input	- Input

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.