

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

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

Model Number	Output Voltage	Output mAmps	Input Range
<b>SINGLE OUTPUT</b>			
VKC03-24S05	5 VDC	500	9-36VDC
VKC03-48S05		500	18-72VDC
VKC03-24S12	12 VDC	250	9-36VDC
VKC03-48S12		250	18-72VDC
VKC03-24S15	15 VDC	200	9-36VDC
VKC03-48S15		200	18-72VDC
<b>DUAL OUTPUT</b>			
VKC03-24D05	+/-5 VDC	+/-250	9-36VDC
VKC03-48D05		+/-250	18-72VDC
VKC03-24D12	+/-12 VDC	+/-125	9-36VDC
VKC03-48D12		+/-125	18-72VDC
VKC03-24D15	+/-15 VDC	+/-100	9-36VDC
VKC03-48D15		+/-100	18-72VDC



Isolated and Regulated 3 WATT Modular DC/DC Converters

**VKC03 series**

**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

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.

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**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

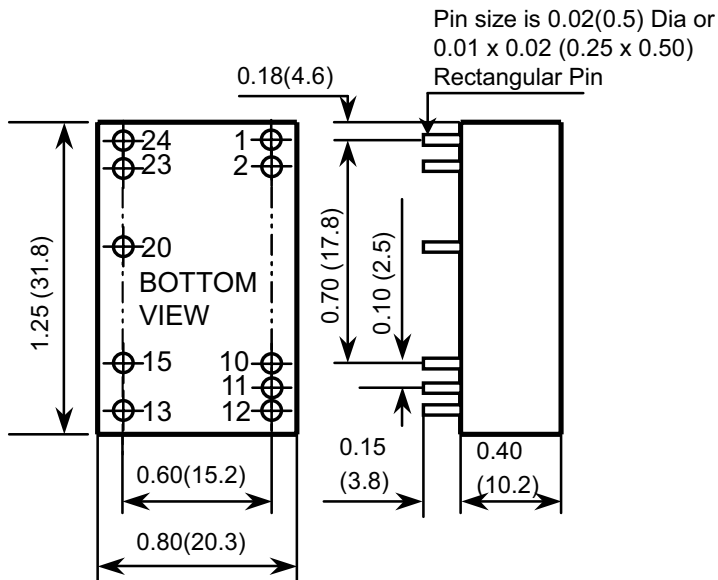
**PHYSICAL SPECIFICATIONS**

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

**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.**

300 Myles Standish Blvd., Taunton, MA 02780  
Ph: 1-800-823-8082 Fax: 508-823-8181

### MECHANICAL DIMENSIONS



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

