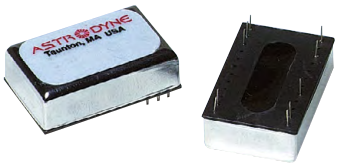
Astrodyne TDI
Now you have power.

Isolated and Regulated 3 WATT Modular DC/DC Converters

VKC03 series



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
SINGLE OUTPUT			
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
DUAL OUTPUT			
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

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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

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

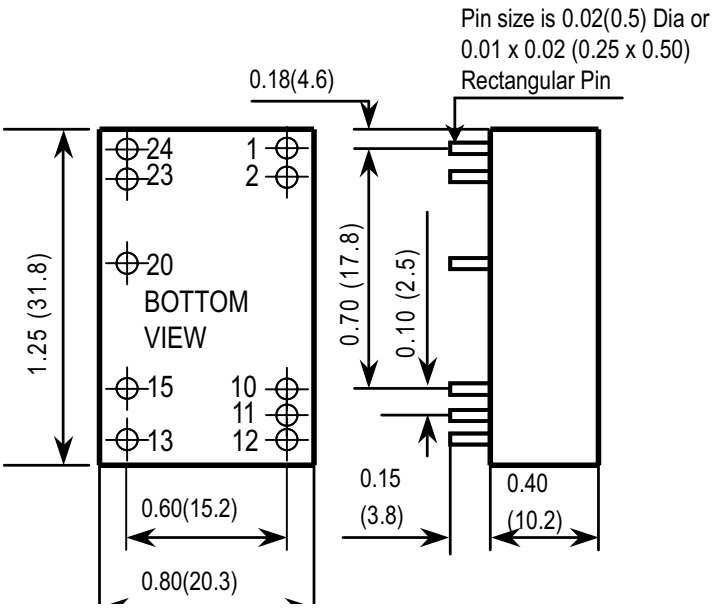
PHYSICAL SPECIFICATIONS

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

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.

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

