

PART NUMBER: VAS3 series

DESCRIPTION: DC/DC converter

features

- 3W isolated output
- efficiency to 61%
- regulated outputs
- LC input filter
- low ripple and noise
- 24-pin DIP package



model number ¹	input voltage	output voltage	output current	input current		efficiency
				no load	full load	
VAS3-S5-S5	5 Vdc	5 Vdc	600 mA	120 mA	984 mA	61%
VAS3-S5-S12	5 Vdc	12 Vdc	250 mA	120 mA	984 mA	61%
VAS3-S5-S15	5 Vdc	15 Vdc	200 mA	120 mA	984 mA	61%
VAS3-S5-D12	5 Vdc	±12 Vdc	±125 mA	120 mA	984 mA	61%
VAS3-S5-D15	5 Vdc	±15 Vdc	±100 mA	120 mA	984 mA	61%
VAS3-S12-S5	12 Vdc	5 Vdc	600 mA	60 mA	410 mA	61%
VAS3-S12-S12	12 Vdc	12 Vdc	250 mA	60 mA	410 mA	61%
VAS3-S12-S15	12 Vdc	15 Vdc	200 mA	60 mA	410 mA	61%
VAS3-S12-D12	12 Vdc	±12 Vdc	±125 mA	60 mA	410 mA	61%
VAS3-S12-D15	12 Vdc	±15 Vdc	±100 mA	60 mA	410 mA	61%
VAS3-S24-S5	24 Vdc	5 Vdc	600 mA	40 mA	205 mA	61%
VAS3-S24-S12	24 Vdc	12 Vdc	250 mA	40 mA	205 mA	61%
VAS3-S24-S15	24 Vdc	15 Vdc	200 mA	40 mA	205 mA	61%
VAS3-S24-D12	24 Vdc	±12 Vdc	±125 mA	40 mA	205 mA	61%
VAS3-S24-D15	24 Vdc	±15 Vdc	±100 mA	40 mA	205 mA	61%
VAS3-S28-S5	28 Vdc	5 Vdc	600 mA	35 mA	176 mA	61%
VAS3-S28-S12	28 Vdc	12 Vdc	250 mA	35 mA	176 mA	61%
VAS3-S28-S15	28 Vdc	15 Vdc	200 mA	35 mA	176 mA	61%
VAS3-S28-D12	28 Vdc	±12 Vdc	±125 mA	35 mA	176 mA	61%
VAS3-S28-D15	28 Vdc	±15 Vdc	±100 mA	35 mA	176 mA	61%
VAS3-S48-S5	48 Vdc	5 Vdc	600 mA	20 mA	102 mA	61%
VAS3-S48-S12	48 Vdc	12 Vdc	250 mA	20 mA	102 mA	61%
VAS3-S48-S15	48 Vdc	15 Vdc	200 mA	20 mA	102 mA	61%
VAS3-S48-D12	48 Vdc	±12 Vdc	±125 mA	20 mA	102 mA	61%
VAS3-S48-D15	48 Vdc	±15 Vdc	±100 mA	20 mA	102 mA	61%

NOTES:

1. suffix "-SMT" for SMT case style

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INPUT

input voltage range	±10%
input filter	LC type

OUTPUT

voltage accuracy	±3.0% max.
temperature coefficient	±0.02% / °C max.
ripple and noise, 20MHz BW	50mV p-p max.
short circuit protection	indefinite & current limit
line Regulation ¹ single/dual	±0.3%
load Regulation ² single	±0.5%
dual	±1.0%

GENERAL SPECIFICATIONS

efficiency	see table
isolation capacitance	150 pF typ.
isolation resistance	10 ⁹ Ohms
switching frequency	80K Hz min.
operating temperature range	-25°C to +71°C
storage temperature range	-40°C to +100°C
case temperature	100°C max.
cooling	free air convection
dimensions	1.25x0.8x0.4 inches (31.8x20.3x10.2mm)

ISOLATION VOLTAGE

500 Vdc min	standard models
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CASE MATERIAL

standard models	black coated copper with non-conductive base
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NOTES:

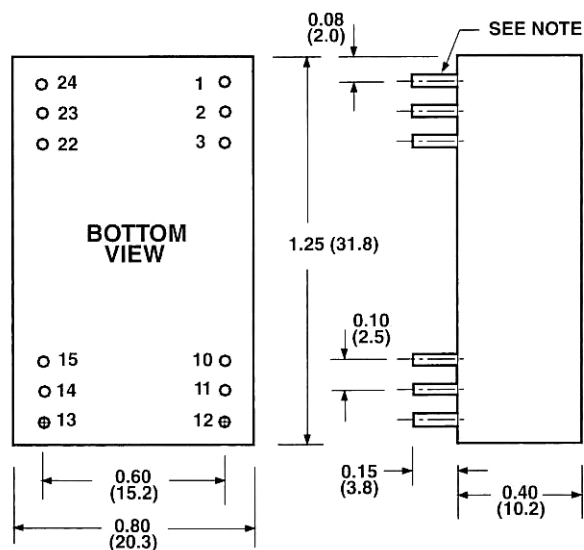
1. measured from high line to low line
2. measured from full load to 10% load

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DIMENSIONS (mm)

NOTE: Pin Size is 0.02" Inch (0.5mm) DIA
All Dimensions In Inches(mm)
Tolerance .xx= ± 0.02 , .xxx= ± 0.010



PIN CONNECTION

500 VDC

Pin	Single Output	Dual Output
1 24	+V Input	+V Input
2 23	NC	-V Output
3 22	NC	Common
10	-V Output	Common
11	+V Output	+V Output
12	-V Input	-V Input
13	-V Input	-V Input
14	+V Output	+V Output
15	-V Output	Common

*NC-NO CONNECTION WITH PIN

DERATING CURVE

