

**PART NUMBER:** VAS1R5 series

**DESCRIPTION:** DC-DC converter

**features**

- 24 pin DIP package
- efficiency to 50%
- regulated outputs
- Pi input filter
- low ripple and noise



model number <sup>1, 2</sup>	input voltage	output voltage	output current	input current		efficiency
				no load	full load	
VAS1R5-S5-S5	5VDC	5VDC	300mA	110mA	620mA	50%
VAS1R5-S5-S12	5VDC	12VDC	125mA	110mA	550mA	50%
VAS1R5-S5-S15	5VDC	15VDC	100mA	110mA	550mA	50%
VAS1R5-S5-D12	5VDC	±12VDC	±60mA	110mA	550mA	50%
VAS1R5-S5-D15	5VDC	±15VDC	±50mA	110mA	550mA	50%
VAS1R5-S12-S5	12VDC	5VDC	300mA	40mA	260mA	50%
VAS1R5-S12-S12	12VDC	12VDC	125mA	40mA	215mA	50%
VAS1R5-S12-S15	12VDC	15VDC	100mA	40mA	215mA	50%
VAS1R5-S12-D12	12VDC	±12VDC	±60mA	40mA	215mA	50%
VAS1R5-S12-D15	12VDC	±15VDC	±50mA	40mA	215mA	50%
VAS1R5-S24-S5	24VDC	5VDC	300mA	20mA	130mA	50%
VAS1R5-S24-S12	24VDC	12VDC	125mA	20mA	115mA	50%
VAS1R5-S24-S15	24VDC	15VDC	100mA	20mA	115mA	50%
VAS1R5-S24-D12	24VDC	±12VDC	±60mA	20mA	115mA	50%
VAS1R5-S24-D15	24VDC	±15VDC	±50mA	20mA	115mA	50%
VAS1R5-S28-S5	28VDC	5VDC	300mA	20mA	110mA	50%
VAS1R5-S28-S12	28VDC	12VDC	125mA	20mA	100mA	50%
VAS1R5-S28-S15	28VDC	15VDC	100mA	20mA	100mA	50%
VAS1R5-S28-D12	28VDC	±12VDC	±60mA	20mA	100mA	50%
VAS1R5-S28-D15	28VDC	±15VDC	±50mA	20mA	100mA	50%
VAS1R5-S48-S5	48VDC	5VDC	300mA	15mA	65mA	50%
VAS1R5-S48-S12	48VDC	12VDC	125mA	15mA	60mA	50%
VAS1R5-S48-S15	48VDC	15VDC	100mA	15mA	60mA	50%
VAS1R5-S48-D12	48VDC	±12VDC	±60mA	15mA	60mA	50%
VAS1R5-S48-D15	48VDC	±15VDC	±50mA	15mA	60mA	50%

**NOTES:**

1. suffix "H" for 3K Vdc isolation
2. suffix "-SMT" for SMT case style

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**INPUT**

input voltage range	±10%
input filter	Pi type

**OUTPUT**

voltage accuracy	±4.0% max.
temperature coefficient	±0.02% / °C max.
ripple and noise, 20MHz BW	50mV p-p max.
short circuit protection	momentary
line regulation	±0.3%
load regulation	±0.5%

**GENERAL SPECIFICATIONS**

efficiency	50%
isolation capacitance	30pF
switching frequency	20kHz min.
isolation resistance	10 <sup>9</sup> Ohms
operating temperature range	-25°C to +71°C
storage temperature	-40°C to +100°C
case temp.(plastic case)	95°Cmax.
(copper case)	100°Cmax.
cooling	free air convection
dimensions	1.25x0.8x0.4 inches (31.8x20.3x10.2mm)

**ISOLATION VOLTAGE**

500 VDC min	standard models
3K VDC min	suffix "H" models

**CASE MATERIAL**

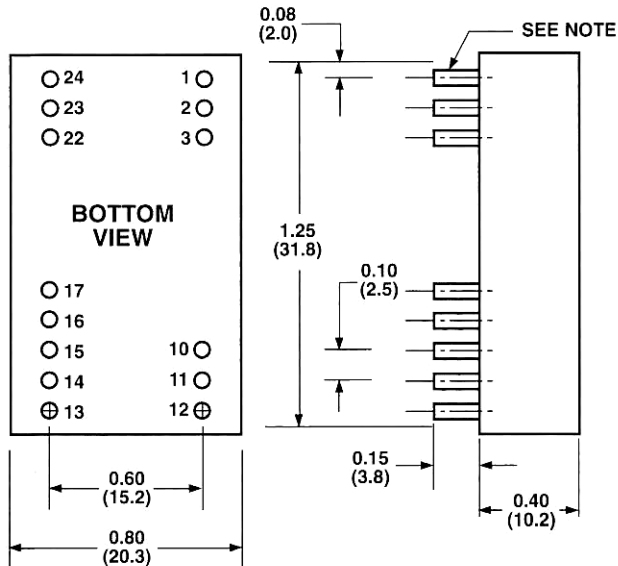
standard models	non-conductive black plastic
suffix "M" models	black coated copper with non-conductive base

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## DIMENSIONS (mm)

NOTE: Pin Size is .02" Inch (0.5mm) DIA  
All Dimensions In Inches(mm)  
Tolerance .xx= ±.02, .xxx= ±.010



PIN CONNECTION					
Pin	500 VDC		Pin	3K VDC	
	Single Output	Dual Output		Single Output	Dual Output

1	24	+V Input	+V Input	1 2,3	+V Input	+V Input
2	23	NC	-V Output	22,23,24	-V Input	-V Input
3	22	NC	Common	10 11	NP	Go Output
10	-V Output	Common	12	-V Output	-TP	
11	+V Output	+V Output	13	+V Output	-V Output	
12	-V Input	-V Input	14	NP	NP	
13	-V Input	-V Input	15	NP	+V Output	
14	+V Output	+V Output	16	NP	+TP	
15	-V Output	Common	17	+TP	NP	

\*NP-NO PIN

\*TP-TEST POINT

\*NC-NO CONNECTION WITH PIN

\*GO-GROUND

## DERATING CURVE

