VAS1R5 Series DC-DC Converter

Features

- ·24 pin DIP package
- ·Efficiency to 50%
- ·Regulated Outputs
- ·Pi Input Filter
- ·Low Ripple and Noise

Model Number	Input Voltage	Output Voltage	Output Current	Input Current No Load	Input Current Full Load	Efficiency	Case
VAS1R5-S5-S5	5VDC	5VDC	300mA	110mA	620mA	50%	A
VAS1R5-S5-S12	5VDC	12VDC	125mA	110mA	550mA	50%	A
VAS1R5-S5-S15	5VDC	15VDC	100mA	110mA	550mA	50%	A
VAS1R5-S5-D12	5VDC	±12VDC	±60mA	110mA	550mA	50%	A
VAS1R5-S5-D15	5VDC	±15VDC	±50mA	110mA	550mA	50%	A
VAS1R5-S12-S5	12VDC	5VDC	300mA	40mA	260mA	50%	A
VAS1R5-S12-S12	12VDC	12VDC	125mA	40mA	215mA	50%	A
VAS1R5-S12-S15	12VDC	15VDC	100mA	40mA	215mA	50%	A
VAS1R5-S12-D12	12VDC	±12VDC	±60mA	40mA	215mA	50%	A
VAS1R5-S12-D15	12VDC	±15VDC	±50mA	40mA	215mA	50%	A
VAS1R5-S24-S5	24VDC	5VDC	300mA	20mA	130mA	50%	A
VAS1R5-S24-S12	24VDC	12VDC	125mA	20mA	115mA	50%	A
VAS1R5-S24-S15	24VDC	15VDC	100mA	20mA	115mA	50%	A
VAS1R5-S24-D12	24VDC	±12VDC	±60mA	20mA	115mA	50%	A
VAS1R5-S24-D15	24VDC	±15VDC	±50mA	20mA	115mA	50%	A
VAS1R5-S28-S5	28VDC	5VDC	300mA	20mA	110mA	50%	A
VAS1R5-S28-S12	28VDC	12VDC	125mA	20mA	100mA	50%	A
VAS1R5-S28-S15	28VDC	15VDC	100mA	20mA	100mA	50%	A
VAS1R5-S28-D12	28VDC	±12VDC	±60mA	20mA	100mA	50%	A
VAS1R5-S28-D15	28VDC	±15VDC	±50mA	20mA	100mA	50%	A
VAS1R5-S48-S5	48VDC	5VDC	300mA	15mA	65mA	50%	A
VAS1R5-S48-S12	48VDC	12VDC	125mA	15mA	60mA	50%	A
VAS1R5-S48-S15	48VDC	15VDC	100mA	15mA	60mA	50%	A
VAS1R5-S48-D12	48VDC	±12VDC	±60mA	15mA	60mA	50%	A
VAS1R5-S48-D15	48VDC	±15VDC	±50mA	15mA	60mA	50%	A

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	10^9Ohms
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

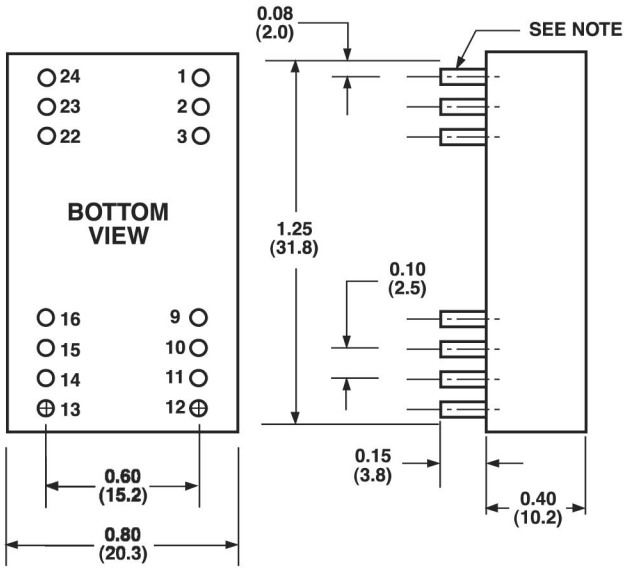
500 VDC min	Standard Models
3K VDC min	Suffix “H” Models

Case Material

Standard models	Non-Conductive Black Plastic
Suffix “M” models	Black Coated Copper with Non-Conductive Base

NOTES:

1. Pin size in .02” inches (0.5mm) DIA
2. All dimensions in inches(mm)
3. Tolerance .xx= ±.02, .xxx= ±.010



PIN CONNECTION

500 VDC			3K VDC		
Pin	Single Output	Dual Output	Pin	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

All Specifications Typical At Nominal Line, Full Load and 25˚C Unless Otherwise Noted.