V-INFINITY
a division of CUI INC

PART NUMBER: VAS1R5

DESCRIPTION: dc-dc converter

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

RoHS

Discontinued

model number[1, 2]	input voltage	output voltage	output current	input current no load	input current full load	efficiency
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%
AS1R5-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	10^9Ohms
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

Discontinued

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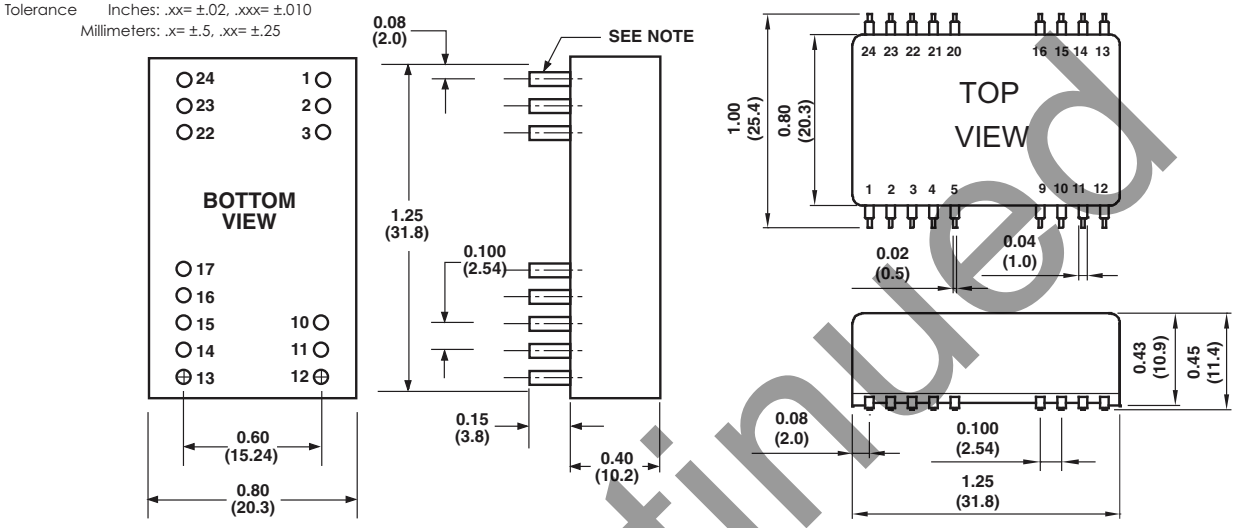
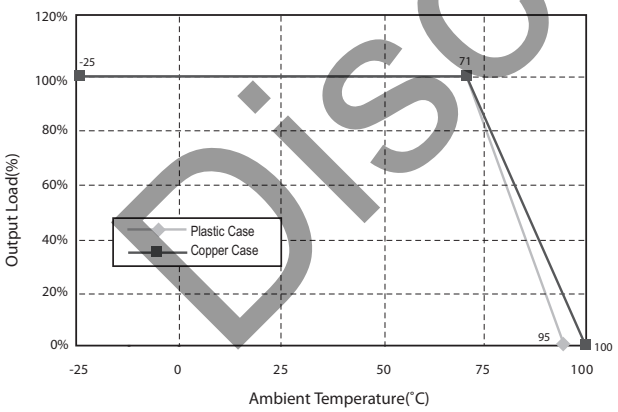
DIMENSIONS (mm)

NOTE:Pin Size is .02" Inch (0.5mm) DIA
All Dimensions In Inches(mm)
Tolerance Inches: .xx= ±.02, .xxx= ±.010
Millimeters: .x= ±.5, .xx= ±.25



DERATING CURVE



PIN CONNECTIONS

500 VDC					1.5K & 3K VDC				
Pin	Single Output		Dual Output		Pin	Single Output		Dual Output	
	DIP	SMD	DIP	SMD		DIP	SMD	DIP	SMD
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		4	NP	NC	NP	NC
4,5	NP	NC	NP	NC	5	NP	NC	NP	NC
9	NP	NC	NP	NC	9	NP	NC	NP	NC
10	-V Output		Common		10,11	NP	NC	Go Output	
11	+V Output		+V Output		12	-V Output		-TP	
12,13	-V Input		-V Input		13	+V Output		-V Output	
14	+V Output		+V Output		14	NP	NC	NP	NC
15	-V Output		Common		15	NP	NC	+V Output	
16	NP	NC	NP	NC	16	NP	NC	+TP	
17	NP		NP		17	+TP	NP	NP	
20,21	NP	NC	NP	NC	20,21	NP	NC	NP	NC

Discontinued