

**PART NUMBER:** VANS1R5 series

**DESCRIPTION:** DC/DC converter

**features**

- 24 pin DIP package
- efficiency to 80%
- unregulated outputs
- Pi input filter
- low ripple and noise



model number <sup>1, 2, 3</sup>	input voltage	output voltage	output current	input current		efficiency
				no load	full load	
VANS1R5-S5-S5	5VDC	5VDC	220mA	115mA	330mA	60%-80%
VANS1R5-S5-S12	5VDC	12VDC	125mA	115mA	420mA	60%-80%
VANS1R5-S5-S15	5VDC	15VDC	100mA	115mA	420mA	60%-80%
VANS1R5-S5-D12	5VDC	±12VDC	±62mA	115mA	420mA	60%-80%
VANS1R5-S5-D15	5VDC	±15VDC	±50mA	115mA	420mA	60%-80%
VANS1R5-S12-S5	12VDC	5VDC	220mA	45mA	120mA	60%-80%
VANS1R5-S12-S12	12VDC	12VDC	125mA	45mA	165mA	60%-80%
VANS1R5-S12-S15	12VDC	15VDC	100mA	45mA	165mA	60%-80%
VANS1R5-S12-D12	12VDC	±12VDC	±62mA	45mA	165mA	60%-80%
VANS1R5-S12-D15	12VDC	±15VDC	±50mA	45mA	165mA	60%-80%

**NOTES:**

1. suffix "HM" for 1.5K Vdc isolation
2. suffix "H" for 3K Vdc isolation
3. suffix "-SMT" for SMT case style

**PART NUMBER:** VANS1R5 series**DESCRIPTION:** DC/DC converter**INPUT**

input voltage range	±10%
input filter	Pi Type

**OUTPUT**

voltage accuracy	±3.0% max.
temperature coefficient	±0.02% / °C max.
ripple and noise, 20MHz BW	100mV p-p max.
short circuit protection	momentary
line regulation	±8.0%
load regulation	±6.0%

**GENERAL SPECIFICATIONS**

efficiency	60%-80%
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
1.5K VDC min	suffix "HM" models
3K VDC min	suffix "H" models

**CASE MATERIAL**

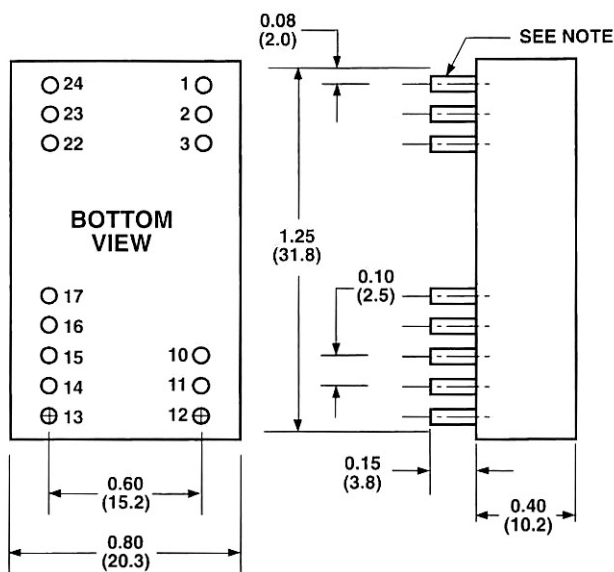
standard models	non-conductive black plastic
suffix "M" models	black coated copper with non-conductive base

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## DIMENSIONS (mm)

NOTE: Pin Size is 0.02" Inch (0.5mm) DIA  
All Dimensions In Inches(mm)  
Tolerance .xx= ±.02, .xxx= ±.010



Pin	500 VDC		1.5K & 3K VDC		
	Single Output	Dual Output	Pin	Single Output	Dual Output
1	24	+V Input	1 2,3	+V Input	+V Input
2	23	NC	22,23,24	-V Input	-V Input
3	22	NC	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  
\*NC-NO CONNECTION WITH PIN  
\*TP-TEST POINT  
\*GO-GROUND

## DERATING CURVE

