

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 ^{1, 2, 3}	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

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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 ⁹ 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

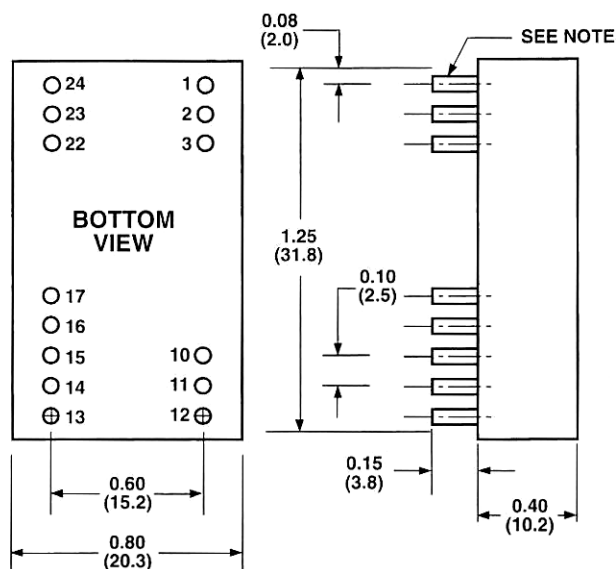
standard models	non-conductive black plastic
suffix "M" models	black coated copper with non-conductive base

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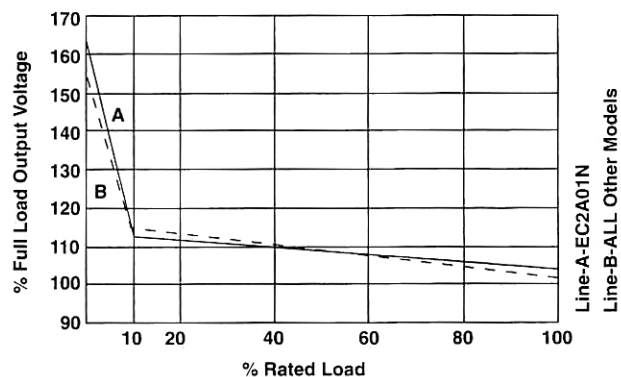
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DIMENSIONS (mm)

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



Typical Load Regulation



PIN CONNECTION

Pin	500 VDC		Pin	1.5K & 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

*NC-NO CONNECTION WITH PIN

*TP-TEST POINT

*GO-GROUND

DERATING CURVE

