

3 Watt**24 Pin DIL Package V**

- o Pi Input Filter
- o Regulated Output
- o Single & Dual Output
- o Short Circuit Protection
- o 1000 VDC I/O-Isolation
- 3000 VDC I/O-Isolation add Suffix „H3“
- o Metal Case Available



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF
				NO LOAD	FULL LOAD	
3VRS5N5M	5 VDC	5 VDC	600 mA	70 mA	923 mA	65
3VRS5N9M		9 VDC	333 mA		857 mA	70
3VRS5N12M		12 VDC	250 mA			
3VRS5N15M		15 VDC	200 mA			
3VRS5N24M		24 VDC	125 mA	130 mA	923 mA	65
3VRD5N5M		±5 VDC	±300 mA	25 mA	870 mA	69
3VRD5N9M		±9 VDC	±167 mA	30 mA	857 mA	70
3VRD5N12M		±12 VDC	±125 mA	35 mA	833 mA	72
3VRD5N15M		±15 VDC	±100 mA			
3VRD5N24M		±24 VDC	±63 mA	60 mA	811 mA	74
3VRS12N5M	12 VDC	5 VDC	600 mA	35 mA	378 mA	66
3VRS12N9M		9 VDC	333 mA		357 mA	70
3VRS12N12M		12 VDC	250 mA	40 mA	337 mA	74
3VRS12N15M		15 VDC	300 mA			
3VRS12N24M		24 VDC	125 mA	70 mA	357 mA	70
3VRD12N5M		±5 VDC	±300 mA	15 mA	320 mA	78
3VRD12N9M		±9 VDC	±167 mA	20 mA		
3VRD12N12M		±12 VDC	±125 mA	25 mA	312 mA	80
3VRD12N15M		±15 VDC	±100 mA		320 mA	78
3VRD12N24M		±24 VDC	±63 mA	40 mA		

SPECIFICATIONS

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

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF
				NO LOAD	FULL LOAD	
3VRS24N5M	24 VDC	5 VDC	600 mA	25 mA	189 mA	66
3VRS24N9M		9 VDC	333 mA		178 mA	70
3VRS24N12M		12 VDC	250 mA	30 mA	193 mA	72
3VRS24N15M		15 VDC	200 mA			
3VRS24N24M		24 VDC	125 mA	25 mA	169 mA	74
3VRD24N5M		±5 VDC	±300 mA	10 mA	160 mA	78
3VRD24N9M		±9 VDC	±167 mA			
3VRD24N12M		±12 VDC	±125 mA	15 mA	156 mA	80
3VRD24N15M		±15 VDC	±100 mA			
3VRD24N24M		±24 VDC	±63 mA	25 mA	160 mA	78

SPECIFICATIONS

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INPUT SPECIFICATIONS

Input Voltage Range	±10%
Input Filter	Pi Network

OUTPUT SPECIFICATIONS

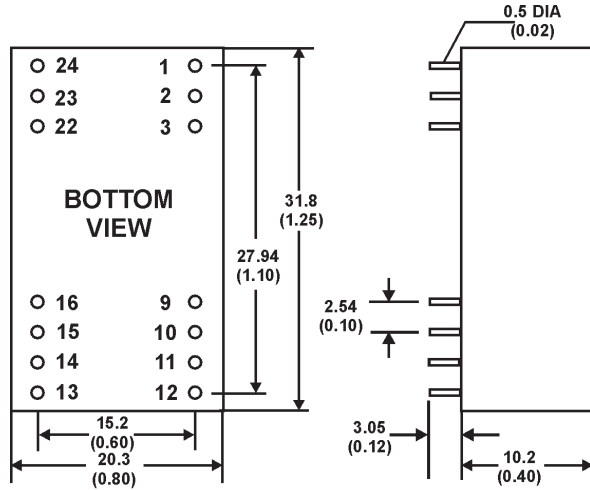
Voltage Accuracy	±2% max.
Voltage Balance (Dual)	±1%
Temperature Coefficient	±0.02%/°C max.
Ripple and Noise, 20MHz BW	75 mV p-p max.
Short Circuit Protection	Continuous
Short Circuit Restart	Automatic
Line Regulation	±0.5% max.
Load Regulation	±0.5% max.

GENERAL SPECIFICATION

Efficiency	see table
Isolation Voltage Suffix "H3"	1000 VDC min. 3000 VDC min.
Isolation Resistance	1.000 Mohms min.
Isolation Capacitance	60 pF
Switching Frequency	Single 40 kHz Dual 250 kHz
Operating Temperature Range	Single -40°C to +85°C Dual -40°C to +85°C
Case Temperature	+95°C max.
Storage Temperature Range	-40°C to +125°C
Humidity	Up to 90%, Non Condensing
Cooling	Free-Air Convection
Case Material Suffix "A"	Non Conductive Black Plastic Nickel-Coated Copper
MTBF (MIL-HDBK-217F)	
Capacitive Load at Dual Output	±470 µF max.

SPECIFICATIONS

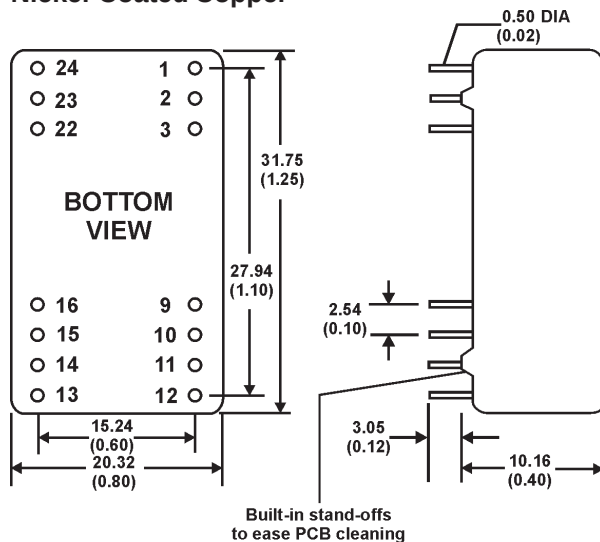
All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

MECHANICAL SPECIFICATIONS**CASE "V"****Non Conductive Black Plastic**

All Dimensions in mm (Inches)
Tolerances: x.xx=±0.25 (±0.01)

PIN CONNECTIONS 1000 VDC		
PIN	SINGLE	DUAL
1 & 24	+INPUT	+INPUT
2 & 23	NC*	-OUTPUT
3 & 22	NC*	COMMON
9 & 16	NO PIN	NO PIN
10 & 15	-OUTPUT	COMMON
11 & 14	+OUTPUT	+OUTPUT
12 & 13	-INPUT	-INPUT

* Option "NO Pin" at Single Output add Suffix "NP" to Part No.

Nickel-Coated Copper

All Dimensions in mm (Inches).
Tolerances: x.xx = ±0.25 (±0.01)

PIN CONNECTIONS 3000 VDC		
PIN	SINGLE	DUAL
1 & 2	+INPUT	+INPUT
3 & 22	NO PIN	NO PIN
9 & 16	NO PIN	NO PIN
10 & 11	NO PIN	COMMON
12	-OUTPUT	NO PIN
13	+OUTPUT	-OUTPUT
14	NO PIN	NO PIN
15	NO PIN	+OUTPUT
23 & 24	-INPUT	-INPUT

Application Note: Please don't operate in parallel use.

NOTICE:

The information in this document has been carefully checked. However, no responsibility is assumed for inaccuracies! Specifications can be changed without notice. The latest and most complete information can be found on our website.