

# 1.5 Watt 24 Pin DIL Package V 2:1 Input Range - Metal Case



- o Wide Input Range
- o Regulated Single & Dual Output
- o Short Circuit Protection
- o 1.5 KVDC I/O-Isolation
- o Option 3.5 KVDC I/O-Isolation

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		Eff.%
				NO LOAD	FULL LOAD	
1.5VRS12W3.3M	9-18 VDC	3.3 VDC	400 mA	10 mA	171 mA	73
1.5VRS12W5M		5 VDC	300 mA		171 mA	73
1.5VRS12W12M		12 VDC	125 mA		160 mA	78
1.5VRS12W15M		15 VDC	100 mA	12 mA	160 mA	78
1.5VRD12W3.3M		±3.3 VDC	±200 mA		171 mA	73
1.5VRD12W5M		±5 VDC	±150 mA	15 mA	160 mA	78
1.5VRD12W12M		±12 VDC	±63 mA		160 mA	78
1.5VRD12W15M		±15 VDC	±50 mA		160 mA	78
1.5VRS24W3.3M	18-36 VDC	3.3 VDC	400 mA	10 mA	74 mA	74
1.5VRS24W5M		5 VDC	300 mA		83 mA	75
1.5VRS24W12M		12 VDC	125 mA		80 mA	78
1.5VRS24W15M		15 VDC	100 mA		79 mA	79
1.5VRD24W3.3M		±3.3 VDC	±200 mA	12 mA	74 mA	74
1.5VRD24W5M		±5 VDC	±150 mA		83 mA	75
1.5VRD24W12M		±12 VDC	±63 mA		79 mA	79
1.5VRD24W15M		±15 VDC	±50 mA		79 mA	79
1.5VRS48W3.3M	36-72 VDC	3.3 VDC	400 mA	8 mA	37 mA	74
1.5VRS48W5M		5 VDC	300 mA		43 mA	73
1.5VRS48W12M		12 VDC	125 mA		42 mA	75
1.5VRS48W15M		15 VDC	100 mA		42 mA	75
1.5VRD48W3.3M		±3.3 VDC	±200 mA	11 mA	37 mA	74
1.5VRD48W5M		±5 VDC	±150 mA		42 mA	74
1.5VRD48W12M		±12 VDC	±63 mA		42 mA	75
1.5VRD48W15M		±15 VDC	±50 mA		41 mA	75

**SPECIFICATIONS**

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

**INPUT SPECIFICATIONS**

Input Voltage Range	2:1
Input Filter	Pi Network

**OUTPUT SPECIFICATIONS**

Voltage Accuracy	±1% max.
Voltage Balance (Dual Output)	±1%
Temperature Coefficient	±0.02%/°C max.
Ripple and Noise, 20MHz BW	60 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 "H"	1.500 VDC min. 3.500 VDC min.
Isolation Resistance	1.000 Mohms min.
Isolation Capacitance	80 pF typ.
Leakage Current	1 mA
Switching Frequency	250 kHz typ.
Operating Temperature Range	-25°C to +71°C
Storage Temperature Range	-55°C to +125°C
Derating	None Required
Humidity	Up to 90%, Non Condensing
Case Material	Nickel-Coated Copper
Case Material Suffix "P"	Non-Conductive Black Plastic
MTBF	

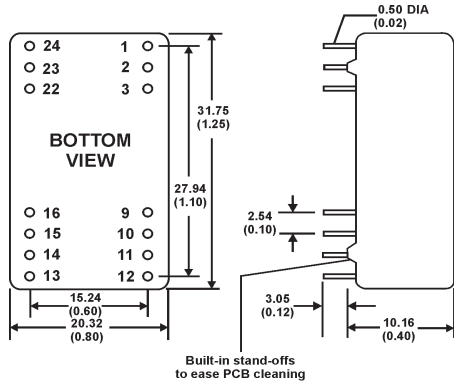
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**MECHANICAL SPECIFICATIONS**

**CASE "V"**

**NICKEL-COATED COPPER**

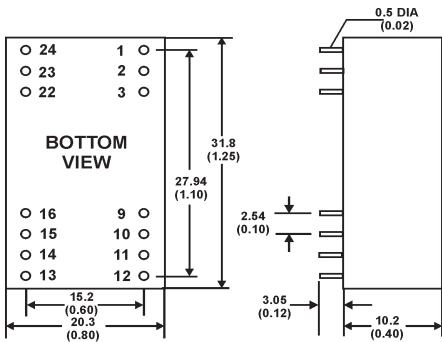


All Dimensions in mm (Inches).  
 1. Pin diameter: 0.5 ±0.05 (0.02 ±0.002)  
 2. Pin pitch tolerance: ±0.35 (±0.014)  
 3. Case Tolerance: ±0.5 (±0.02)

PIN CONNECTIONS 1.500VDC		
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

\*NC = NOT CONNECTED

**NON-CONDUCTIVE BLACK PLASTIC**



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 1. Pin diameter: 0.5 ±0.05 (0.02 ±0.002)  
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PIN CONNECTIONS 3.500VDC		
PIN	SINGLE	DUAL
1 & 24	NO PIN	NO PIN
2 & 3	-INPUT	-INPUT
9	NO PIN	COMMON
10 & 15	NO PIN	NO PIN
11	NC*	-OUTPUT
12 & 13	NO PIN	NO PIN
14	+OUTPUT	+OUTPUT
16	-OUTPUT	COMMON
22 & 23	+INPUT	+INPUT

\*NC = NOT CONNECTED

**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.