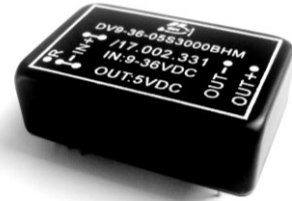




**15 Watt, 4:1 Wide Input
DC/DC Converters
Series DV154B**



Features

- 15 Watt Isolated Output
- Regulated Outputs
- 4:1 Input Range
- 24-Pin DIP Package, Shielded Metal Case
- No Tantalum Capacitor Inside
- CE Mark Meets 2004/108/EC
- Efficiency up to 90%
- Pi Input Filter
- Continuous Short Circuit Protection
- Conductive EMI Meet EN55022 Class A
- Low Input Current at No Load
- Safety Meets UL60950-1, EN60950-1, IEC60950-1

MODEL NUMBER	INPUT VOLTAGE [VDC]	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT MAX. [mA]	INPUT CURRENT NO LOAD [mA]	INPUT CURRENT FULL LOAD [mA]	EFF. [%]	CAPACITOR LOAD Max. [µF]	CASE
DV9-36-3,3S4000BHM	9 – 36	3,3	4000	8	625	88	4000	B
DV9-36-05S3000BHM		5	3000	8	694	90	3000	
DV9-36-12S1250BHM		12	1250	8	694	90	1250	
DV9-36-15S1000BHM		15	1000	8	694	90	1000	
DV9-36-12D625BHM		±12	±625	8	702	89	625	
DV9-36-15D500BHM		±15	±500	8	694	90	500	
DV18-75-3,3S4000BHM	18 – 75	3,3	4000	6	309	89	4000	B
DV18-75-05S3000BHM		5	3000	6	351	89	3000	
DV18-75-12S1250BHM		12	1250	6	347	90	1250	
DV18-75-15S1000BHM		15	1000	6	347	90	1000	
DV18-75-12D625BHM		±12	±625	6	351	89	625	
DV18-75-15D500BHM		±15	±500	6	347	90	500	

Note: 1. Nominal Input Voltage 24 or 48VDC
2. Measure at Nominal Input Voltage

INPUT SPECIFICATIONS:

Input Voltage Range.....		See Table
Input Surge Voltage (100ms max.)	24Vin	50Vdc max.
	48Vin	100Vdc max.
Under Voltage lockout	24Vin Power up	8,8V
	24Vin Power down	8V
	48Vin Power up	17V
	48Vin Power down	16V
Input Filter		Pi Type
Remote on/off Control		
Logic Compatibility		CMOS or Open Collector TTL, ref. to -Vin
Module ON		>3,5VDC to Vin or Open Circuit
Module OFF		<1,2VDC

OUTPUT SPECIFICATIONS:

Voltage Accuracy		±1,5% max.
Voltage Balance (Dual)		±1,0% max.
Transient Response: 75% - 100% Step Load Change		
Error Band		±5% Vout nominal
Recovery Time		<250 µs
Ripple & Noise, 20 MHz BW (Note 3)		75mV p-p max.
Temperature Coefficient		±0,03%/°C
Line Regulation (Note 1)	Single	±0,2% max.
	Dual	±0,5% max.
Load Regulation (Note 2)	Single	±0,5% max.
	Dual	±1,0% max.
Cross Regulation (Dual Output) Load Cross Variation 10%/100%		±5% max.
Short Circuit Protection		continuous
Over Voltage Protection (Zener Diode Clamp, Single Output Only) . 3,3V		3,9V typ.
	5V	6,2V typ.
	12V	15V typ.
	15V	18V typ.
Start up time		15ms typ.

GENERAL SPECIFICATIONS:

Efficiency		See Table
Isolation Voltage I/O		1500 VDC min.
Isolation Resistance		10 ⁹ Ω min.
Isolation Capacitance		1000pF typ.
Switching Frequency		300KHz, typ.
EMI/FRI		Conductive EMI Meet EN55022 Class A
Operating Ambient Temperature Range		-40°C to +85°C
Derating, above 65°C		Linearly to Zero Power at 105°C
Case Temperature (Note 4)		105°C max.
Cooling		Natural Convection
Storage Temperature Range		-40°C to +125°C
Humidity		95% RH max. Non condensing
MTBF (MIL-STD-217F, GB,25°C, Full Load)		TBD hrs
Dimensions		1,25 x 0,8 x 0,40 inches (31,8 x 20,3 x 10,2 mm)
Weight		18,4 g

CASE MATERIAL:

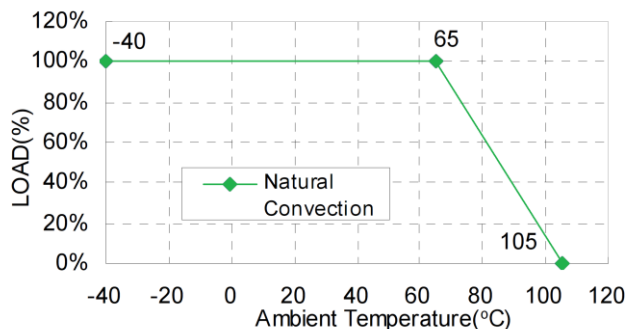
Standard Models		Black Coated Copper with Non-Conductive Base
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Note:

1. Measured from High Line to Low Line.
2. Measured from Full Load to 10% Load.
3. Measured with 0,1µF MLCC.
4. Maximum case temperature under any operating condition should not be exceeded 105°C.

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

Typical Derating curve for Natural Convection



Technische Änderungen vorbehalten / Technical change reserved

CASE B

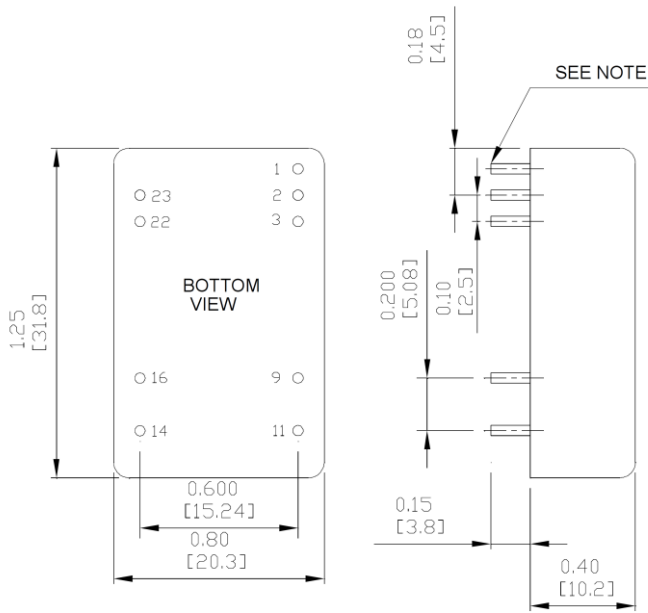
Series DV154B

Note: Pin Size is 0.020" Inch(0.5mm) DIA

All dimensions typical in inches (mm)

Toleranz: Inches x.xx=±.02, x.xxx=±.010

Millimeters x.x=±0.5, x.xx=±0.25



PIN CONNECTION		
Pin	Single Output	Dual Output
1	Remote On/Off	Remote On/Off
2,3	-V Input	-V Input
4,5	NP	NP
9	NP	Common
10	NP	NP
11	NC	-V Output
12,13	NP	NP
14	+V Output	+V Output
15	NP	NP
16	- V Output	Common
20,21	NP	NP
22,23	+V Input	+V Input

*NP-NO PIN

*NC-NO CONNECTION WITH PIN