



B5WR Series

5 WATT DC/DC CONVERTER, SINGLE & MULTIPLE OUTPUTS



FEATURES

- ✔ **ECONOMY LINE**
- ✔ **5 WATTS DIP 24 PACKAGE**
- ✔ **2 : 1 WIDE INPUT VOLTAGE RANGE**
- ✔ **REGULATED OUTPUTS**
- ✔ **TYPICAL EFFICIENCY UP TO 85%**
- ✔ **SHORT CIRCUIT PROTECTION**
- ✔ **DIRECT PCB-SOLDERING**
- ✔ **HIGH ISOLATION(4KV AVAILABLE)**
- ✔ **UL94V-0 PACKAGE**

ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load

INPUT SPECIFICATIONS

Input Voltage.....2 : 1
Input Filter.....PI-Network

OUTPUT SPECIFICATIONS

Output Voltage Accuracy..... $\pm 1\%$ typ.
Efficiency.....83 % typ.
Over-Current Protection.....Built-in (Automatic Recovery)
Ripple50 mVp-p (DC
to 100Mhz)
Line Regulation..... $\pm 0.2\%$
Line Filter.....Built-in
Load Regulation..... $\pm 0.5\%$ max.
(Load Rate 10% ~ 100%)

GENERAL SPECIFICATIONS

Isolation Voltage.....DC 2KV min
* Add /H after P/N for 4KV
MTBF..... $> 9 \times 10^5$ hours
Isolation Resistance.....1 G Ω min.

GENERAL SPECIFICATIONS

Operating Temperature-40°C ~ +75°C
Temperature Coefficient..... $\pm 0.05\%/^{\circ}\text{C}$
Humidity.....30%~95% RH
Storage Temperature.....-55°C ~ +85°C

PHYSICAL SPECIFICATIONS

Case Material.....UL94-0 Plastic
Dual In-Line Pin Configuration



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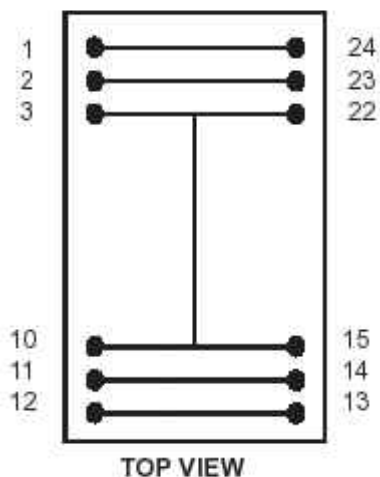
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MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT
B5R-1203	12VDC (9 - 18VDC)	3.3 VDC	1200mA
B5R-1205		5VDC	1000mA
B5R-1209		9VDC	560mA
B5R-1212		12VDC	420mA
B5R-1215		15VDC	340mA
B5R-1203D		± 3.3VDC	± 600mA
B5R-1205D		± 5VDC	± 500mA
B5R-1209D		± 9VDC	± 280mA
B5R-1212D		± 12VDC	± 210mA
B5R-1215D		± 15VDC	± 170mA
B5R-2403	24VDC (18 – 36VDC)	3.3VDC	1200mA
B5R-2405		5VDC	1000mA
B5R-2409		9VDC	560mA
B5R-2412		12VDC	420mA
B5R-2415		15VDC	340mA
B5R-2403D		± 3.3VDC	± 600mA
B5R-2405D		± 5VDC	± 500mA
B5R-2409D		± 9VDC	± 280mA
B5R-2412D		± 12VDC	± 210mA
B5R-2415D		± 15VDC	± 170mA
B5R-4803	48VDC (36 – 72VDC)	3.3VDC	1200mA
B5R-4805		5VDC	1000mA
B5R-4809		9VDC	560mA
B5R-4812		12VDC	420mA
B5R-4815		15VDC	340mA
B5R-4803D		± 3.3VDC	± 600mA
B5R-4805D		± 5VDC	± 500mA
B5R-4809D		± 9VDC	± 280mA
B5R-4812D		± 12VDC	± 210mA
B5R-4815D		± 15VDC	± 170mA

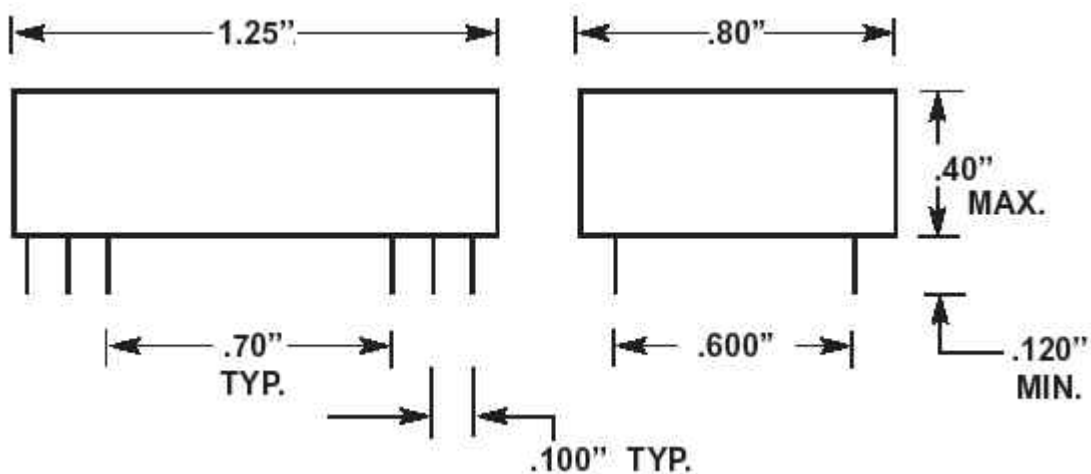


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Pin Connections		
PIN	Single Output	Dual Output
2,3	-Vin (GND)	- Vin (GND)
9	No Pin	Common
11	NC	- Vout
14	+ Vout	+ Vout
16	- Vout	Common
22,23	+Vin (Vcc)	+Vin (Vcc)



NOTE:

All dimensions in Metric (mm)

All specifications typical and nominal / full load and 25°C unless otherwise noted.

Avoid sustained operation in overload or dead short conditions.