

B AND RB SERIES - TO 1.35 WATTS

Regulated and Miniaturized 24-pin DIP

FEATURES

- Miniature Packaging
- 24 Pin DIP Compatibility
- High Efficiency
- High Reliability: MTBF > 1 Million hours
- Single and Dual Outputs
- Ten Year Warranty



THE B AND RB SERIES FROM WALL INDUSTRIES

Housed in a 0.8 x 1.25 x 0.40" case, the B Series and regulated version, RB Series, offers you an encapsulated DC/DC converter suitable for distributed power applications. Providing an economical solution to design challenges, these modules supply the power needed to confirm your programs' success. An MTBF in excess of 1 million hours reflects the quality designed into these converters.

SPECIFICATIONS: B AND RB SERIES

All specifications apply @ +25 C ambient unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range5, 12 VDC ±10%

OUTPUT SPECIFICATIONS

Output Currentsee table

Voltage Tolerance±5%

Line Regulation- B Series1.2%/V_{in}

Line Regulation- RB Series±0.5%

Load Regulation- B Series±10% (@20-100% load)

Load Regulation - RB Series±0.5%

Ripple/Noise - B Series(20MHz BW) 100mV P-P

Ripple/Noise - RB Series(20MHz BW) 75mV P-P

Short Circuit ProtectionShort Term

GENERAL SPECIFICATIONS

Efficiency(typical)B Series: 60%, RB Series: 50% Typical

Isolation Voltage (input to output).....500VDC

Switching Frequency50kHz(typical)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature-25 to +85°C (case)

Storage Temperature-55 to +100°C

Humidity (non-condensing)20% to 95% R.H.

PHYSICAL SPECIFICATIONS

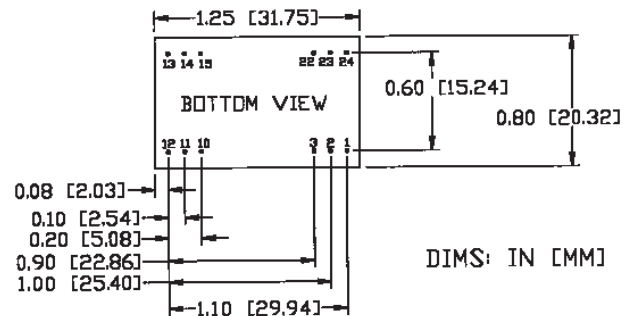
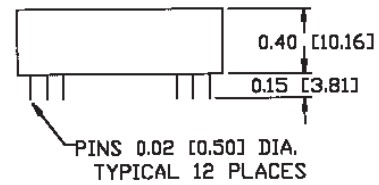
Dimensions:0.8 x 1.25 x 0.40"

Weightapprox. 0.35 oz.

Case MaterialNon-metallic case

Due to advances in technology, specifications subject to change without notice.

Input Voltage (± 10%) (VDC)	Output Voltage (VDC)	Output Current (mA)	Regulated Model Number	Non-Regulated Model Number
5	5	220	RBS55	BS55
	12	100	RBS512	BS512
	15	90	RBS515	BS515
	± 5	110	RBD55	BD55
	± 12	50	RBD512	BD512
	± 15	45	RBD515	BD515
	12	5	220	RBS25
12		100	RBS212	BS212
15		90	RBS215	BS215
± 12		50	RBD212	BD212
± 15		45	RBD215	BD215



PIN CONNECTIONS		
	Single	Dual
1, 24	+ Vin	+ Vin
2, 23	Do not connect	- Vout
3, 22	Do not connect	Common
10, 15	- Vout	Common
11, 14	+ Vout	+ Vout
12, 13	- Vin	- Vin

Notes:

1. All case and pin-to-case dimensions reference only unless otherwise noted.
2. All DC/DC converters should be externally fused on front end for protection.