



TRI-MAG, Inc.
® *your* **POWER Specialists**

1601 N. Clancy, Visalia, CA 93291
(209) 651-2222 Fax (209) 651-0188
ITT Telex Number: 4994462
Cable Address: "TRIMAG"

TDB5W SERIES

5 Watt, Metal Case

DC-DC CONVERTER

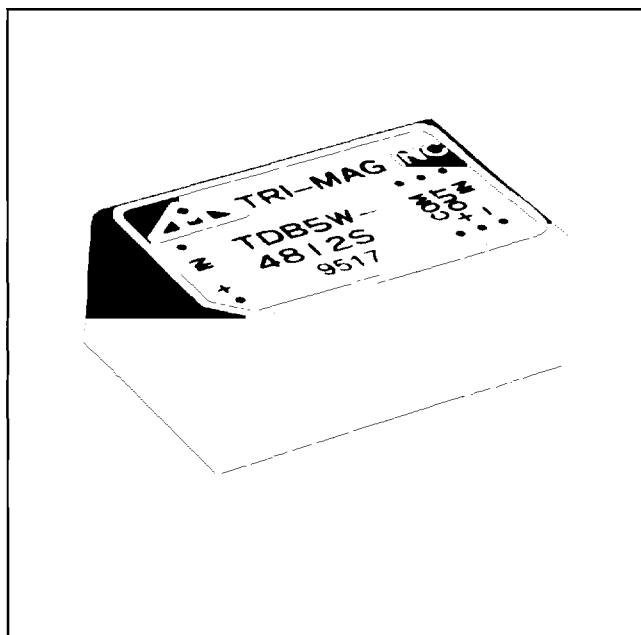
24 Pin DIP 2:1 Wide Range Input

FEATURES

- PCB Mountable
- High Stable Regulated Output
- Thermally Conductive Encapsulant
- 100% Burn-In And Triple Tested
- MTBF > 400,000 Hours

APPLICATIONS

- Local Area Network
- Isolation Devices
- Telecommunications
- Industrial And Testing Equipment
- Battery-Powered Equipment
- Medical Equipment
- Distributed Power Systems



ELECTRICAL SPECIFICATIONS

Input Voltage Range	2:1
Output Voltage Accuracy	±3% max.
Load Regulation	Single ±1%, Dual ±2.5% max.
Line Regulation	±1% max.
Ripple & Noise	50mV p-p for 5V, 1% for other Voltages
Short Circuit Protection	Fold Back

GENERAL SPECIFICATIONS

Efficiency (at full load)	70% typical
Isolation Voltage	500 VDC
Operating Frequency	100KHz min.
Operating Temperature	-25° C to +70° C
Storage Temperature	-40° C to +100° C
Isolation Resistance	10 ¹⁰ Ohms, min.
Weight	0.5 Oz. (14.2 grams)
Case Material	Black coated copper with non-conductive base



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TDB5W SERIES SINGLE & DUAL OUTPUT SPECIFICATIONS

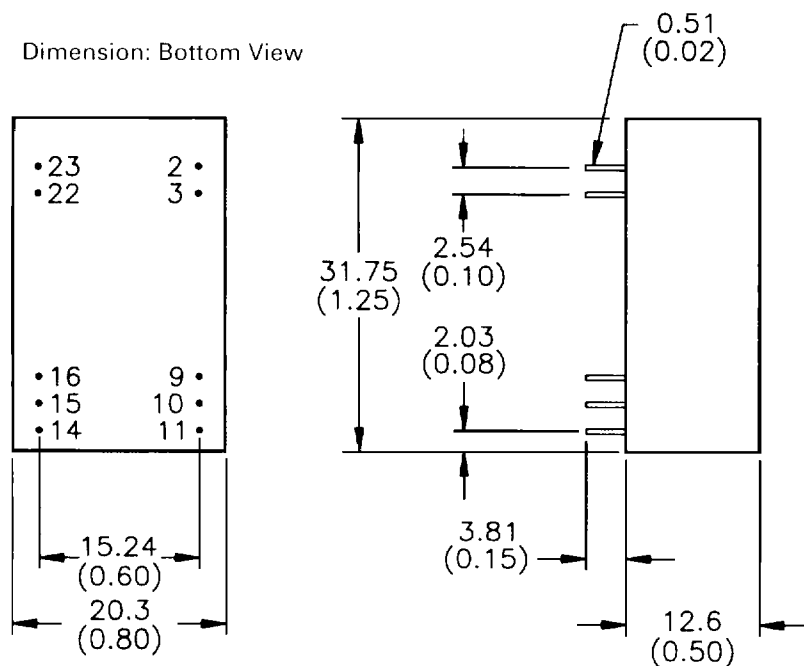
Model-Type	Input Voltage (Vdc)	Input Current mA (typ)	Output Voltage (Vdc)	Output Current mA (max)
TDB5W - 1205S	9-18 (12)	610	5	1000
TDB5W - 1212S		570	12	800
TDB5W - 1215S		570	15	600
TDB5W - 1205D		630	±5	±1500
TDB5W - 1212D		600	±12	±400
TDB5W - 1215D		630	±15	±300
TDB5W - 2405S	18-36 (24)	300	5	1000
TDB5W - 2412S		270	12	800
TDB5W - 2415S		290	15	600
TDB5W - 2405D		300	±5	±500
TDB5W - 2412D		270	±12	±400
TDB5W - 2415D		290	±15	±300
TDB5W - 4805S	36-72 (48)	150	5	1000
TDB5W - 4812S		140	12	800
TDB5W - 4815S		140	15	600
TDB5W - 4805D		160	±5	±500
TDB5W - 4812D		150	±12	±400
TDB5W - 4815D		150	±15	±300

S: Single Output

D: Dual Output

Specifications subject to change without notice.

Dimension: Bottom View



Pin Connections

Function	Single	Dual
+ Input	12 & 23	22 & 23
Input	2 & 3	2 & 3
+ Output	14	14
Common	N/C	9 & 16
- Output	16	11