



**TRI-MAG, Inc.**

® *your* POWER Specialists

1601 N. CLANCY CT. • VISALIA, CA 93291  
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## TDB4 SERIES

### 3 Watt

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 Equipment



#### ELECTRICAL SPECIFICATIONS

Input Voltage Range	±10%
Output voltage Accuracy	±5%
Load Regulation	±5%
Line Regulation	±1%
Ripple & Noise	50mV p-p for 5V, 1% for other voltages
Short Circuit Protection	Short term, (10 sec. Max.)

#### GENERAL SPECIFICATIONS

Efficiency (at full load)	70% typical
Isolation Voltage	500VDC
Operating Frequency	25KHz min.
Operating Temperature	-25°C to +70°C
Storage Temperature	-40°C to +100°C
Isolation Resistance	10 <sup>9</sup> Ohms, min.
weight	0.5 Oz. (14.2 grams)
Case Material	Non-conductive Plastic



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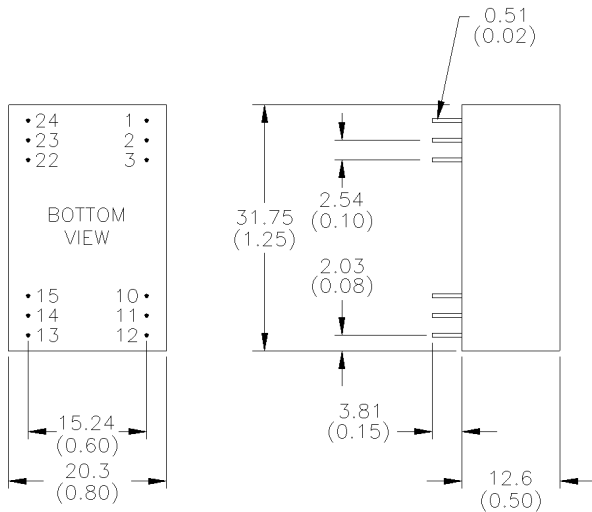
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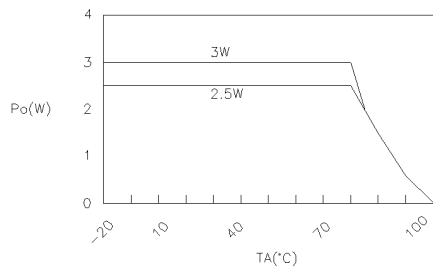
## TDB4 SERIES SPECIFICATIONS

Model-Type	Input Voltage (Vdc)	Input Current mA (typ)		Output Voltage (Vdc)	Output Current mA (max)
		No Load	Full Load		
TDB4-0505S	5	110	1000	5	600
TDB4-0509S	5	80	780	9	300
TDB4-0512S	5	110	1000	12	250
TDB4-0515S	5	120	950	15	200
TDB4-0512D	5	80	930	±12	±120
TDB4-0515D	5	105	1000	±15	±100
TDB4-1205S	12	30	400	5	600
TDB4-1209S	12	40	375	9	300
TDB4-1212S	12	30	400	12	250
TDB4-1212D	12	40	400	±12	±120
TDB4-1215D	12	45	400	±15	±100
TDB4-2405S	24	20	195	5	600
TDB4-2412S	24	30	205	12	250
TDB4-2415S	24	25	210	15	200
TDB4-2412D	24	20	185	±12	±120
TDB4-2415D	24	20	195	±15	±100
TDB4-4805S	48	10	94	5	600
TDB4-4812S	48	10	92	12	250
TDB4-4815S	48	15	100	15	200
TDB4-4812D	48	15	98	±12	±120
TDB4-4815D	48	15	110	±15	±100

S: Single Output      D: Dual Output



Power Derating Curve



### Pin Connections

Pin	Single	Dual
1&24	+ Input	+ Input
2&23	NC	- Output
3&22	NC	Common
10&15	- Output	Common
11&14	+ Output	+ Output
12&13	- Input	- Input

