

TDB4X SERIES

3 Watt

DC-DC CONVERTER

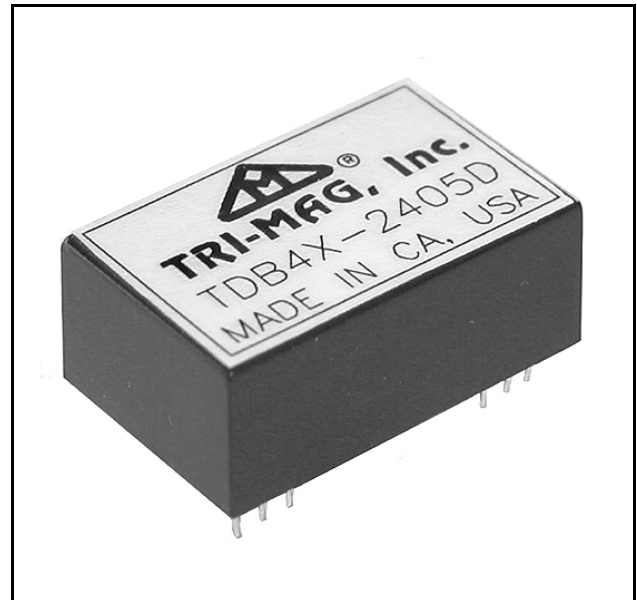
24 Pin DIP 4:1 Wide Range Input

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	4:1
Output Voltage Accuracy	±3%
Load Regulation	±0.5%
Line Regulation	±1%
Ripple & Noise	50mV p-p for 5V, 1% for other voltages
Short Circuit Protection	Fold-back

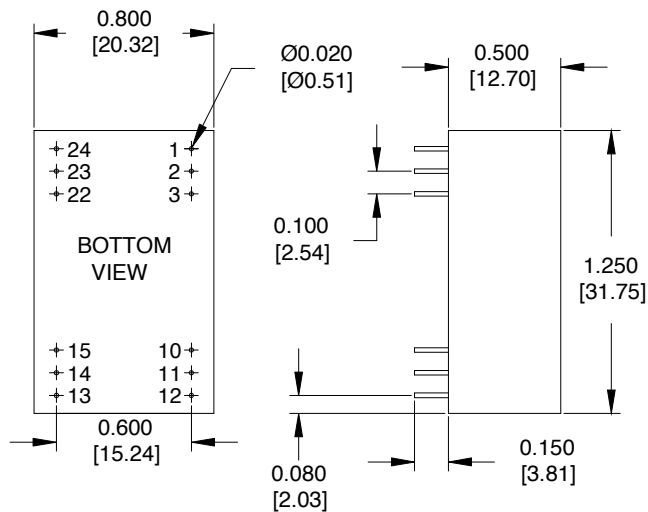
GENERAL SPECIFICATIONS

Efficiency (At Full Load)	71 to 80% typical
Isolation Voltage	1500VDC
Isolation Capacitance	80pF max.
Operating Frequency	50KHz min.
Operating Temperature	-25°C to +70°C
Storage Temperature	-40°C to +100°C
Isolation Resistance	10 ⁹ Ohms, min.
Weight	0.5 Oz. (14.2 grams)
Case Material	Non-conductive Plastic

TDB4X SERIES SPECIFICATIONS

Model-Type	Input Voltage (Vdc)	Input Current mA (typ)		Output Voltage (Vdc)	Output Current mA (max)
		No Load	Full Load		
TDB4X-2405S TDB4X-2412S TDB4X-2415S TDB4X-2405D TDB4X-2412D TDB4X-2415D	9-36 (24)	35 40 40 35 35 50	335 385 385 330 390 390	5 12 15 ±5 ±12 ±15	600 250 200 ±300 ±125 ±100
TDB4X-4805S TDB4X-4812S TDB4X-4815S TDB4X-4805D TDB4X-4812D TDB4X-4815D	20-72 (48)	40 20 20 20 20 50	160 180 180 170 185 180	5 12 15 ±5 ±12 ±15	600 250 200 ±300 ±125 ±100

S: Single Output D: Dual Output



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

Power Derating Curve

