



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"

TSP1 SERIES

1 Watt, 1000VDC Isolation

DC-DC CONVERTER

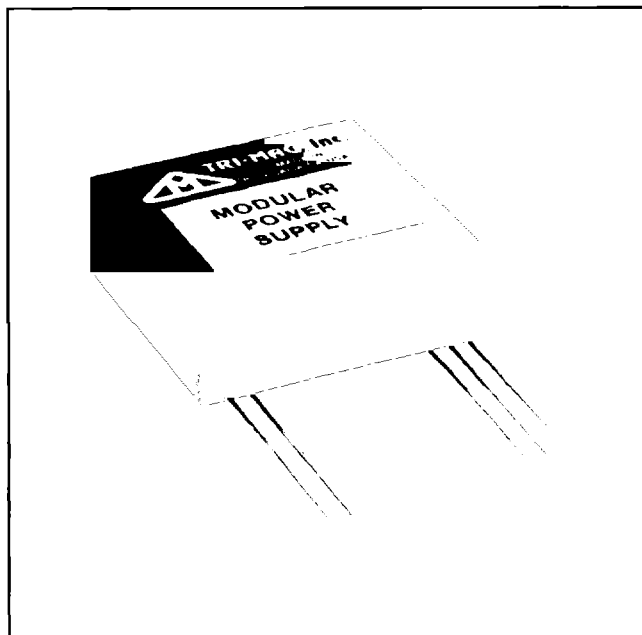
SIP Type

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	±10%
Output Voltage Accuracy	±3%
Load Regulation	±10%
Line Regulation	±10%
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	1000 VDC
Operating Frequency	100KHz min.
Operating Temperature	-25° C to +70° C
Storage Temperature	-40° C to +100° C
Isolation Resistance	10 Ohms, min.
Weight	0.1 Oz. (2.4 grams)
Case Material	Non-conductive Plastic



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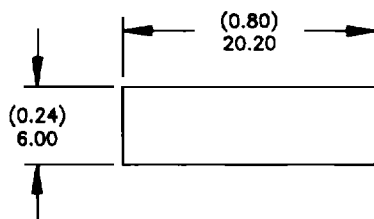
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TSP1 SERIES SPECIFICATIONS

Model-Type	Input Voltage (Vdc)	Input Current mA (typ)	Output Voltage (Vdc)	Output Current mA (max)
TSP1 - 0505D	5	293	±5	±100
TSP1 - 0509D	5	285	±9	±56
TSP1 - 0512D	5	258	±12	±42
TSP1 - 0515D	5	272	±15	±34
TSP1 - 1205D	12	119	±5	±100
TSP1 - 1209D	12	115	±9	±56
TSP1 - 1212D	12	112	±12	±42
TSP1 - 1215D	12	110	±15	±34
TSP1 - 2405D	24	60	±5	±100
TSP1 - 2409D	24	58	±9	±56
TSP1 - 2412D	24	56	±12	±42
TSP1 - 2415D	24	55	±15	±34

D: Dual Output

Specifications subject to change without notice.



Pin Connections

Pin	Dual
1	+ Input
2	- Input
4	- Output
5	Common
6	+ Output

