

TSP2W & TSP2X SERIES

2 Watt

DC-DC CONVERTER

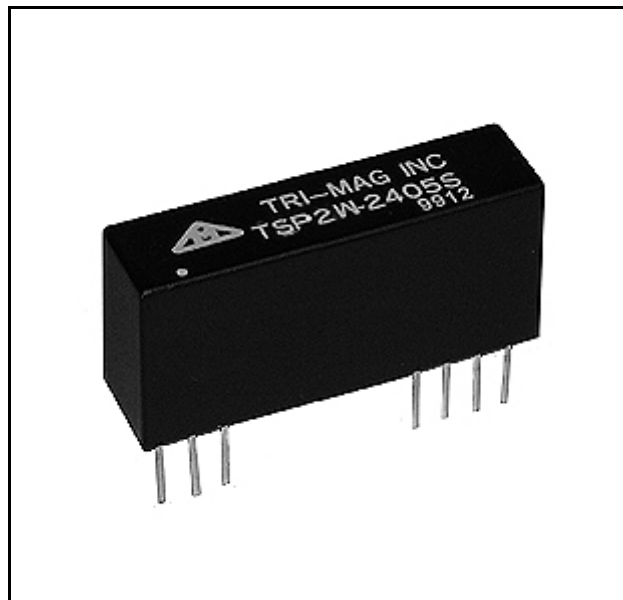
SIP Type 2:1 & 4:1 Wide Range Input

FEATURES

- PCB Mountable
- High Stable Regulated Output
- Thermally Conductive Encapsulant
- 100% Burn-In And Triple Tested
- MTBF > 900,000 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	2:1 & 4:1
Output voltage Accuracy	± 2%
Load Regulation	± 0.5%
Line Regulation	± 0.5%
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	1000VDC and 3000VDC
Operating Frequency	100KHz min.
Operating Temperature	-25°C to +70°C
Storage Temperature	-55°C to +105°C
Isolation Resistance	10 ⁹ Ohms, min.
Weight	0.3 Oz. (8 grams)
Case Material	Non-conductive Plastic



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TSP2W SERIES OUTPUT SPECIFICATIONS

Model-Type	Input Voltage (Vdc)	Input Current mA (typ)		Output Voltage (Vdc)	Output Current mA (max)
		No Load	Full Load		
TSP2W-0503S	4.9-9	50	516	3.3	500
TSP2W-0505S	4.9-9	50	602	5	400
TSP2W-0509S	4.9-9	50	500	9	200
TSP2W-0512S	4.9-9	50	500	12	150
TSP2W-0515S	4.9-9	50	500	15	120
TSP2W-1203S	9-18	30	205	3.3	500
TSP2W-1205S	9-18	20	220	5	400
TSP2W-1209S	9-18	20	225	9	222
TSP2W-1212S	9-18	20	213	12	168
TSP2W-1215S	9-18	20	213	15	133
TSP2W-1205D	9-18	20	225	±5	±200
TSP2W-1215D	9-18	20	225	±15	±67
TSP2W-2403S	18-36	12	98	3.3	500
TSP2W-2405S	18-36	12	112	5	400
TSP2W-2409S	18-36	13	111	9	222
TSP2W-2412S	18-36	11	107	12	168
TSP2W-2415S	18-36	11	107	15	133
TSP2W-2424S	18-36	11	107	24	83
TSP2W-2405D	18-36	12	112	±5	±200
TSP2W-2412D	18-36	12	112	±12	±83
TSP2W-2415D	18-36	12	112	±15	±67
TSP2W-4803S	36-72	8	52	3.3	500
TSP2W-4805S	36-72	8	56	5	400
TSP2W-4809S	36-72	8	55	9	222
TSP2W-4812S	36-72	8	54	12	168
TSP2W-4815S	36-72	8	54	15	133
TSP2W-4805D	36-72	8	56	±5	±200

S: Single Output D: Dual Output (3000V Isolation add -3K at end of P/N, For single output only)

Specifications subject to change without notice.

Remote ON/OFF Specifications

Parameter	Min	Max
Supply On	Under 1 VDC or Open Circuit	
Supply Off	4VDC	
Standby Input Current		0.2mA
Control Input Current (On)		-0.4mA
Control Input Current (Off)		1mA
Control Common	Referenced to -Input (Pin 1)	

Pin Connections

Pin	Single	Dual
1	- Input	- Input
2	+ Input	+ Input
3	Remote On/Off	Remote On/Off
5	NC	NC
6	+ Output	+ Output
7	- Output	Common
8	NC	- Output



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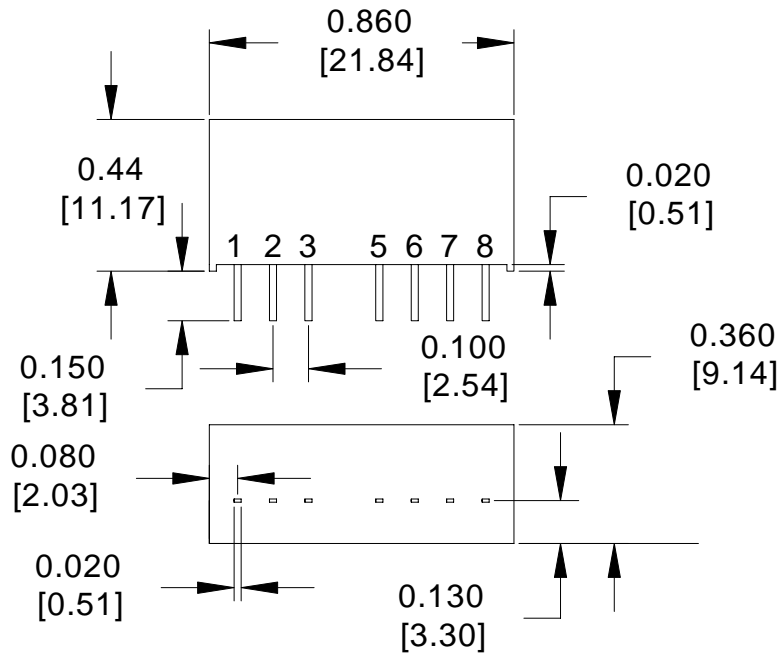
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TSP2X SERIES OUTPUT SPECIFICATIONS

Model-Type	Input Voltage (Vdc)	Input Current mA (typ)		Output Voltage (Vdc)	Output Current mA (max)
		No Load	Full Load		
TSP2X-2403S	9-36	12	98	3.3	500
TSP2X-2405S	9-36	12	112	5	400
TSP2X-2409S	9-36	13	111	9	222
TSP2X-2412S	9-36	11	107	12	168
TSP2X-2415S	9-36	11	107	15	133
TSP2X-4803S	20-72	8	52	3.3	500
TSP2X-4805S	20-72	8	56	5	400
TSP2X-4809S	20-72	8	55	9	222
TSP2X-4812S	20-72	8	54	12	168
TSP2X-4815S	20-72	8	54	15	133

S: Single Output D: Dual Output (3000V Isolation add -3K at end of P/N, For single output only)

Specifications subject to change without notice.



BOTTOM VIEW

