

International Series-Low Profile (Economy)

Prem Magnetics, Inc. • 3521 North Chapel Hill Road • McHenry, IL 60050 • Tel: 815-385-2700 • Fax: 815-385-6576 • E-Mail: sales@premmag.com • Website: http://www.premmag.com

SPW-3050/SPW-3100/SPW-3150 Series Power Transformers

EN 60950 Certified

2.5VA, 6.0VA, & 9.0VA Low Profile Transformers
Are Interchangeable with Non-European Units

▲ Superior Design

- Interchangeable with non-VDE units such as Prem's SPW-050, SPW-100 and SPW-150 series.
- Shrouded primaries/three flange bobbin
- No electrostatic shield required.
- Immersed in 100% solids epoxy to withstand most aqueous and solvent cleaning systems.
- Anchor, insulating and crossover tapes.
- Two distinct, separate windings for each primary and secondary assure excellent HIPOT capability between these dual windings.
- Bobbin and shroud material - UL94V0.

▲ 100% Final Tested

- Every transformer is tested on automated panels for induced voltage (shorted turns), exciting current, open circuit voltage (turns ratio), polarity (phasing) and dielectric strength.
- 4500 VRMS dielectric strength (HIPOT) pri - sec

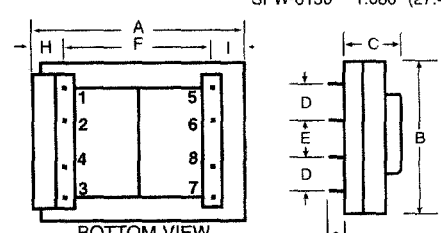


**SPW-3050
THRU
SPW-3161
2.5, 6.0, 9.0 VA**

Primary Voltages:
115/230 Volts
50/60 Hz

C Dimension:

SPW-3050	.720" (18.23)
SPW-3100	.895" (22.73)
SPW-3150	1.080" (27.43)



External connections:

Parallel: 1-3, 2-4, 5-7, 6-8
 Series: 2-3, 6-7

Pin Dimension:
 .025" Sq. (.635)

Note: Primary and secondary windings are designed to be used as one primary and one secondary winding with either parallel or series connection only.

UL - #1950, #1585 Class II, III, #1446
CSA - #22.2 No. 950
IEC - #950
VDE - #0805 (EN 60950)
TUV - EN 60950
UL - #1585 Class II, III, #1446

SPW-3050 and
SPW-3100 series

SPW-3150 series

VA	Part No.	Secondary RMS Rating	
		Parallel	Series
2.5	SPW-3050	5V @ 500 mA	10V CT @ 250 mA
	SPW-3051	6.3V @ 400 mA	12.6V CT @ 200 mA
	SPW-3052	8V @ 300 mA	16V CT @ 150 mA
	SPW-3053	10V @ 250 mA	20V CT @ 125 mA
	SPW-3054	12V @ 200 mA	24V CT @ 100 mA
	SPW-3055	17V @ 150 mA	34V CT @ 75 mA
	SPW-3056	20V @ 120 mA	40V CT @ 60 mA
	SPW-3057	28V @ 90 mA	56V CT @ 45 mA
	SPW-3058*	44V @ 56 mA	88V CT @ 28 mA
	SPW-3059*	60V @ 40 mA	120V CT @ 20 mA
	SPW-3060*	115V @ 20 mA	230V CT @ 10 mA
	SPW-3061	15V @ 170 mA	30V CT @ 85 mA
6.0	SPW-3100	5V @ 1.2 A	10V CT @ 600 mA
	SPW-3101	6.3V @ 900 mA	12.6V CT @ 450 mA
	SPW-3102	8V @ 700 mA	16V CT @ 350 mA
	SPW-3103	10V @ 600 mA	20V CT @ 300 mA
	SPW-3104	12V @ 500 mA	24V CT @ 250 mA
	SPW-3105	17V @ 340 mA	34V CT @ 170 mA
	SPW-3106	20V @ 300 mA	40V CT @ 150 mA
	SPW-3107	28V @ 200 mA	56V CT @ 100 mA
	SPW-3108*	44V @ 130 mA	88V CT @ 65 mA
	SPW-3109*	60V @ 100 mA	120V CT @ 50 mA
	SPW-3110*	115V @ 50 mA	230V CT @ 25 mA
	SPW-3111	15V @ 400 mA	30V CT @ 200 mA
9.0	SPW-3150	5V @ 1.8 A	10V CT @ 900 mA
	SPW-3151	6.3V @ 1.43 A	12.6V CT @ 715 mA
	SPW-3152	8V @ 1.125 A	16V CT @ 562 mA
	SPW-3153	10V @ 900 mA	20V CT @ 450 mA
	SPW-3154	12V @ 750 mA	24V CT @ 375 mA
	SPW-3155	17V @ 530 mA	34V CT @ 265 mA
	SPW-3156	20V @ 450 mA	40V CT @ 225 mA
	SPW-3157	28V @ 322 mA	56V CT @ 161 mA
	SPW-3158*	44V @ 204 mA	88V CT @ 102 mA
	SPW-3159*	60V @ 150 mA	120V CT @ 75 mA
	SPW-3160*	115V @ 78 mA	230V CT @ 39 mA
	SPW-3161	15V @ 600 mA	30V CT @ 300 mA

* Voltage rating cannot be approved under UL 1585

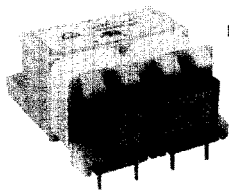
Dimensions	
A	2.030" (51.56)
B	1.510" (38.35)
C	See Drawing
D	0.375" (9.53)
E	0.375" (9.53)
F	1.600" (40.64)
G	0.200" (5.08)
H	0.230" (5.84)
I	0.200" (5.08)

Fuse Types/Values Used to Gain Safety Agency Component Recognition(s)				
SPW Series	3050	3100	3150	
Circuit Location	Primary	Primary	Primary	
Fuse P/N	115Vin	218.040	313.125	313.200
	230Vin	313.031	313.062	313.100
Fuse Manufacturer	L	L	L	
L = Littlefuse, Inc.; Des Plaines, Illinois				

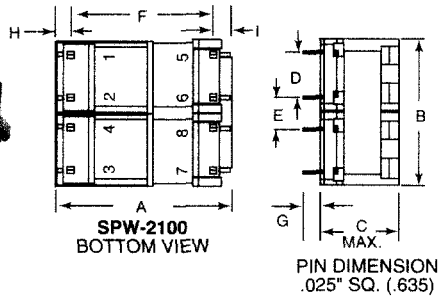
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International Series-Low Profile PC

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SPW-2100
6.0 VA

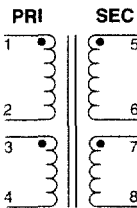


Note: Primary and secondary windings are designed to be used as one primary and one secondary winding with either parallel or series connection only.

• Indicates like polarity

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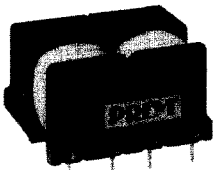
External connections:
Parallel 1-3, 2-4, 5-7, 6-8
Series 2-3, 6-7



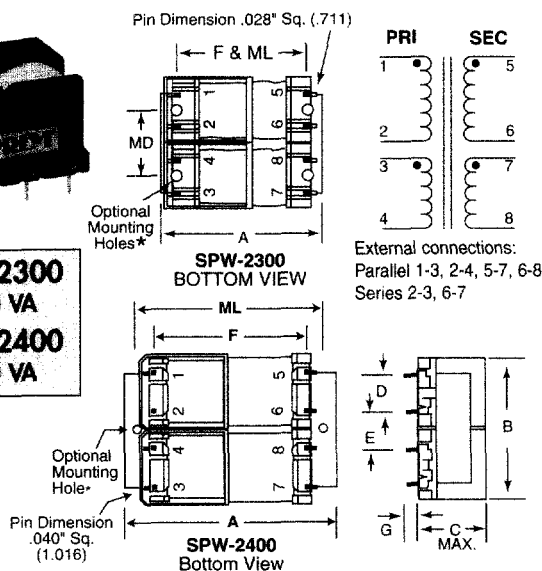
HIPOT rating: 4500 VRMS from primaries to secondaries



UL - #1950, #1585 (Class II, III), #1446
CSA - #22.2 No. 234M90
IEC - #950
VDE - #0805 (EN 60950)



SPW-2300
12.0 VA
SPW-2400
24.0 VA



Note: Primary and secondary windings are designed to be used as one primary and one secondary winding with either parallel or series connection only.

* Refer to Technical Bulletin #214 • Indicates like polarity
HIPOT rating: 4500 VRMS from primaries to secondaries.

Safety Agency Approvals SPW-2300

UL - #1950, #1585 (Class II, III), #1446
IEC - #950
VDE - #0805 (EN 60950)

Safety Agency Approvals SPW-2400

UL - #1950, #1585 (Class II, III), #1446
CSA - #22.2 No. 234M90
IEC - #950
VDE - #0805 (EN 60950)

	SPW-2100	SPW-2300	SPW-2400
VA	6.0	12.0	24.0
A	1.950" (49.53)	2.500" (63.50)	2.870" (72.90)
B	1.562" (39.69)	2.000" (50.80)	2.250" (57.15)
C	.890" (22.61)	1.065" (27.05)	1.300" (33.02)
D	.375" (9.53)	.500" (12.70)	0.600" (15.24)
E	.375" (9.53)	.500" (12.70)	0.530" (13.46)
F	1.600" (40.64)	2.00" (50.80)	1.900" (48.26)
G	.200" (5.08)	.200" (5.08)	0.200" (5.08)
H	.210" (5.33)	•	•
I	.140" (3.56)	•	•
MD	•	1.000" (25.4)	•
ML	•	2.000" (50.80)	2.410" (61.21)
Screw Size	•	#4	#4

() = mm

Fuse Types/Values Used to Gain Safety Agency Component Recognition(s)

SPW-Part	2100-2111	2300-2311	2401-2411 ¹
Circuit Location	Primary	Primary	Primary ¹
Fuse	115Vin	218.100	218.400 ¹
P/N	230Vin	218.050	218.200 ¹
Fuse Mfg	L ²	L ²	L ²

Notes: ¹ SPW-2400 Reg's Sec. Fusing - Contact Factory; ² Littlefuse, Inc.; Des Plaines, IL

VA	PART NUMBERS	Secondary	
		PARALLEL	SERIES
6.0	SPW-2100	5V @ 1.2A	10V CT @ 600 mA
	SPW-2101	6.3V @ 900 mA	12.6V CT @ 450 mA
	SPW-2102	8V @ 700 mA	16V CT @ 350 mA
	SPW-2103	10V @ 600 mA	20V CT @ 300 mA
	SPW-2104	12V @ 500 mA	24V CT @ 250 mA
	SPW-2105	17V @ 340 mA	34V CT @ 170 mA
	SPW-2106	20V @ 300 mA	40 V CT @ 150 mA
	SPW-2107	28V @ 200 mA	56V CT @ 100 mA
	SPW-2108*	44V @ 130 mA	88V CT @ 65 mA
	SPW-2109*	60V @ 100 mA	120V CT @ 50 mA
	SPW-2110*	115V @ 50 mA	230V CT @ 25 mA
12.0	SPW-2111	15V @ 400 mA	30V CT @ 200 mA
	SPW-2300	5V @ 2.4A	10V CT @ 1.2A
	SPW-2301	6.3V @ 1.8A	12.6V CT @ 900 mA
	SPW-2302	8V @ 1.4A	16V CT @ 700 mA
	SPW-2303	10V @ 1.2A	20V CT @ 600 mA
	SPW-2304	12V @ 1.0A	24V CT @ 500 mA
	SPW-2305	17V @ 680 mA	34V CT @ 340 mA
	SPW-2306	20V @ 600 mA	40V CT @ 300 mA
	SPW-2307	28V @ 400 mA	56V CT @ 200 mA
	SPW-2308*	44V @ 260 mA	88V CT @ 130 mA
	SPW-2309*	60V @ 200 mA	120V CT @ 100 mA
24.0	SPW-2310*	115V @ 100 mA	230V CT @ 50 mA
	SPW-2311	15V @ 800 mA	30V CT @ 400 mA
	SPW-2400	5V @ 4.80A	10V CT @ 2.4 A
	SPW-2401	6.3V @ 3.80A	12.6V CT @ 1.9A
	SPW-2402	8V @ 3.0A	16V CT @ 1.5A
	SPW-2403	10V @ 2.4A	20V CT @ 1.2A
	SPW-2404	12V @ 2.0A	24V CT @ 1.0A
	SPW-2405	17V @ 1.40A	34V CT @ 700 mA
	SPW-2406	20V @ 1.2A	40V CT @ 600 mA
	SPW-2407	28V @ 850 mA	56V CT @ 425 mA
	SPW-2408*	44V @ 540 mA	88V CT @ 270 mA

*Voltage ratings cannot be approved under UL 1585