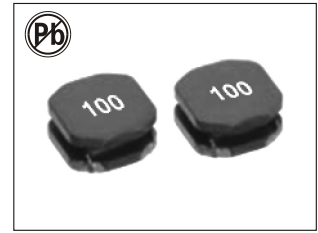


# SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded) LPS4030 SERIES



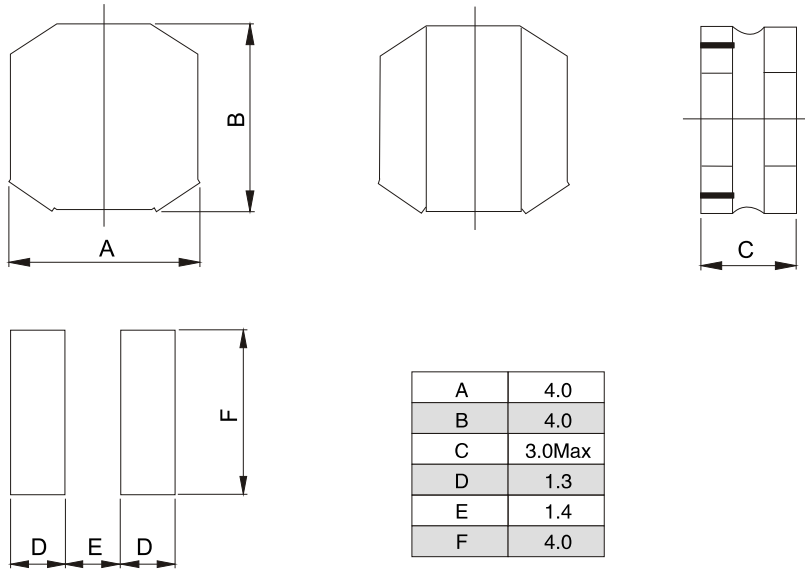
### FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 3.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and reel package.
- The products do not contain lead and support lead-free soldering.

### APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

## SHAPE AND DIMENSIONS Dimensions(mm)



## ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4030-R91N	0.91	± 30	100	100	0.022	6.25	3.15
LPS4030-1R2N	1.2	± 30	100	80	0.025	5.80	2.96
LPS4030-1R5N	1.5	± 30	100	62	0.030	4.84	2.92
LPS4030-1R8N	1.8	± 30	100	60	0.030	5.4	2.92
LPS4030-2R2N	2.2	± 30	100	52	0.035	4.9	2.57
LPS4030-3R3M	3.3	± 20	100	38	0.040	3.3	2.40
LPS4030-4R3M	4.3	± 20	100	37	0.055	2.95	2.1
LPS4030-4R7M	4.7	± 20	100	31	0.060	2.90	2.0
LPS4030-5R6M	5.6	± 20	100	30	0.065	2.60	1.95
LPS4030-6R2M	6.2	± 20	100	29	0.070	2.50	1.85
LPS4030-6R8M	6.8	± 20	100	24	0.090	2.30	1.70
LPS4030-7R5M	7.5	± 20	100	26	0.092	2.20	1.65

Notes:

1. All test data is referenced to 20°C ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% from its value without current.
4. Irms: DC current that causes the temperature rise (ΔT=40°C) from 20°C ambient.

Part No.	Inductance (uH)	Inductance tolerance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4030-8R2M	8.2	± 20	100	26	0.095	2.10	1.60
LPS4030-9R1M	9.1	± 20	100	23	0.095	2.00	1.55
LPS4030-100M	10	± 20	100	21	0.100	1.95	1.50
LPS4030-120M	12	± 20	100	18	0.135	1.70	1.30
LPS4030-150M	15	± 20	100	16	0.190	1.65	1.11
LPS4030-180M	18	± 20	100	10	0.200	1.4	1.10
LPS4030-220M	22	± 20	100	10	0.225	1.3	1.00
LPS4030-330M	33	± 20	100	10	0.330	1.1	0.84
LPS4030-360M	36	± 20	100	9.9	0.335	1.05	0.83
LPS4030-390M	39	± 20	100	10	0.435	1.03	0.73
LPS4030-430M	43	± 20	100	9.2	0.440	1.00	0.73
LPS4030-470M	47	± 20	100	8.4	0.445	0.95	0.72
LPS4030-510M	51	± 20	100	8.4	0.470	0.90	0.70
LPS4030-560M	56	± 20	100	8.4	0.555	0.85	0.65
LPS4030-620M	62	± 20	100	7	0.829	0.80	0.53
LPS4030-680M	68	± 20	100	7	0.868	0.75	0.52
LPS4030-750M	75	± 20	100	6.3	1.02	0.70	0.48
LPS4030-820M	82	± 20	100	5.6	1.06	0.66	0.47
LPS4030-910M	91	± 20	100	5.6	1.10	0.65	0.46
LPS4030-101M	100	± 20	100	5.6	1.15	0.60	0.45
LPS4030-121M	120	± 20	100	5.4	1.35	0.55	0.42

Notes:

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