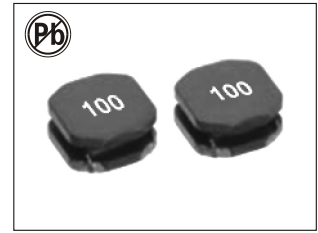


# SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded) LPS4018 SERIES



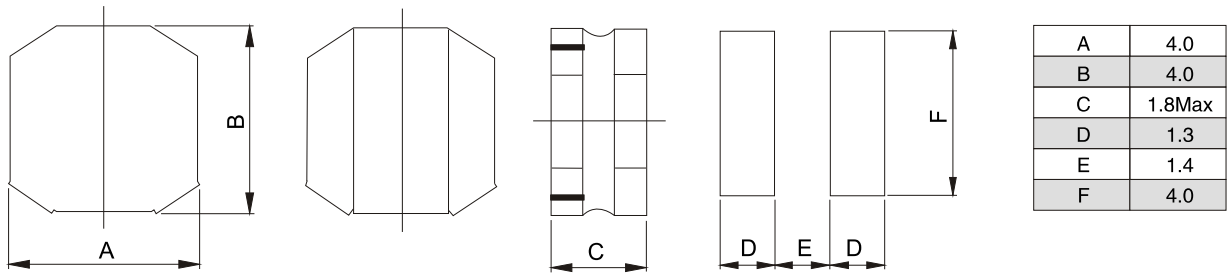
### FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 1.8mm 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
LPS4018-1R0N	1.0	± 30	100	80	0.03	4.0	1.83
LPS4018-2R2M	2.2	± 20	100	52	0.06	2.7	1.44
LPS4018-3R3M	3.3	± 20	100	44	0.07	2.0	1.23
LPS4018-4R7M	4.7	± 20	100	34	0.09	1.7	1.2
LPS4018-6R8M	6.8	± 20	100	29	0.11	1.45	1.06
LPS4018-100M	10	± 20	100	24	0.18	1.2	0.84
LPS4018-150M	15	± 20	100	19	0.25	0.94	0.65
LPS4018-220M	22	± 20	100	16	0.36	0.8	0.59
LPS4018-330M	33	± 20	100	12	0.53	0.65	0.49
LPS4018-470M	47	± 20	100	10	0.65	0.57	0.42
LPS4018-680M	68	± 20	100	8.3	1.00	0.47	0.32
LPS4018-101M	100	± 20	100	6.5	1.50	0.4	0.27
LPS4018-151M	150	± 20	100	5.5	2.50	0.31	0.22
LPS4018-221M	220	± 20	100	4.0	4.00	0.27	0.17

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.