

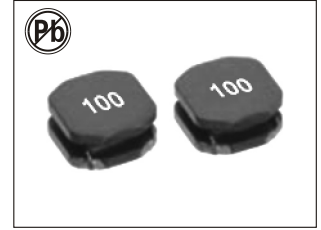
SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded) LPS4010 SERIES

FEATURES:

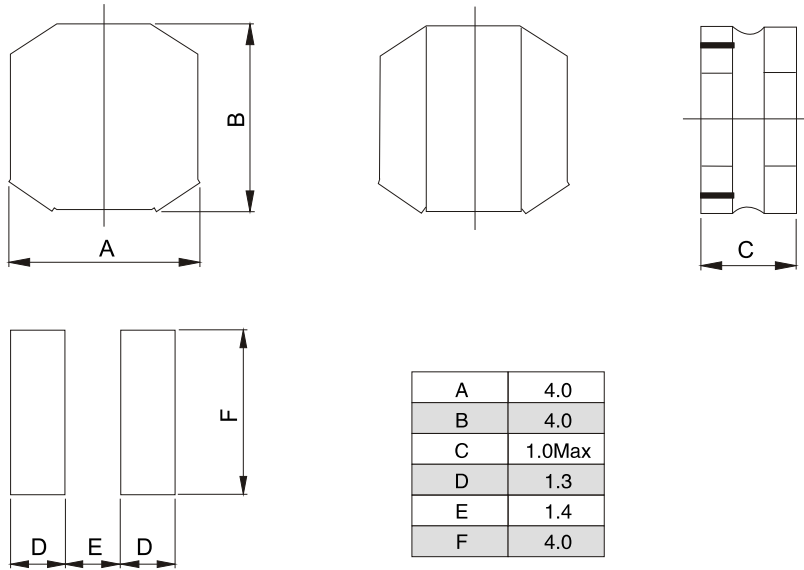
- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 1.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and reel package.
- 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
LPS4010-1R0N	1.0	± 30	100	116	0.10	1.80	1.05
LPS4010-2R2N	2.2	± 30	100	73	0.15	1.15	0.89
LPS4010-3R3M	3.3	± 20	100	58	0.18	1.10	0.82
LPS4010-4R7M	4.7	± 20	100	47	0.21	0.90	0.75
LPS4010-6R8M	6.8	± 20	100	38	0.30	0.74	0.62
LPS4010-100M	10	± 20	100	31	0.38	0.56	0.60
LPS4010-150M	15	± 20	100	24	0.51	0.47	0.51
LPS4010-220M	22	± 20	100	19	0.87	0.36	0.40
LPS4010-330M	33	± 20	100	15	1.54	0.28	0.30
LPS4010-470M	47	± 20	100	13	1.81	0.24	0.28

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% form its value without current.
4. Irms: DC current that causes the temperature rise (ΔT=40°C) form 20°C ambient.