

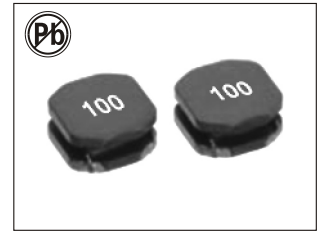
SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded) LPS4012 SERIES

FEATURES:

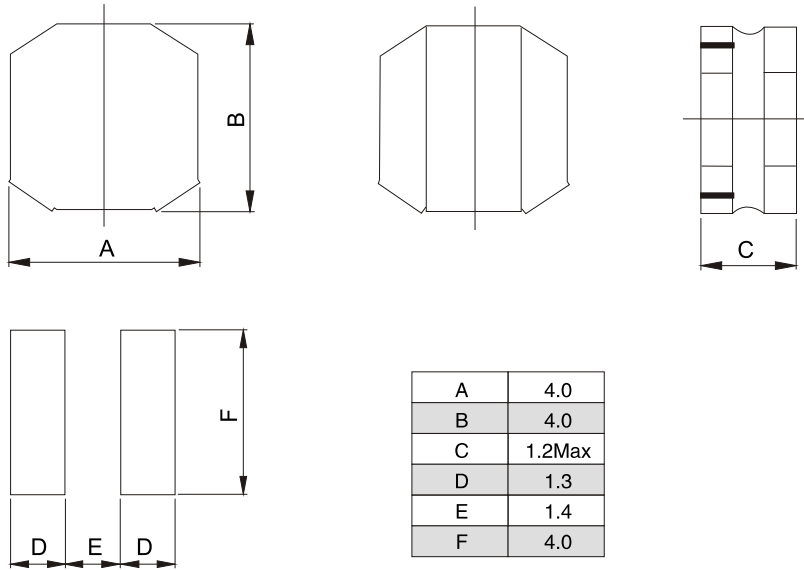
- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 1.2mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and reel package.
- 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
LPS4012-1R0N	1.0	± 30	100	131	0.06	2.5	1.5
LPS4012-2R2N	2.2	± 30	100	66	0.09	1.65	1.2
LPS4012-3R3M	3.3	± 20	100	50	0.13	1.2	0.98
LPS4012-4R7M	4.7	± 20	100	45	0.14	1.05	0.96
LPS4012-6R8M	6.8	± 20	100	35	0.18	0.9	0.84
LPS4012-100M	10	± 20	100	28	0.24	0.74	0.77
LPS4012-150M	15	± 20	100	23	0.40	0.56	0.60
LPS4012-220M	22	± 20	100	18	0.48	0.51	0.54
LPS4012-330M	33	± 20	100	15	0.81	0.4	0.42
LPS4012-470M	47	± 20	100	12	1.00	0.35	0.37

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.