

SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded) LPS5040 SERIES



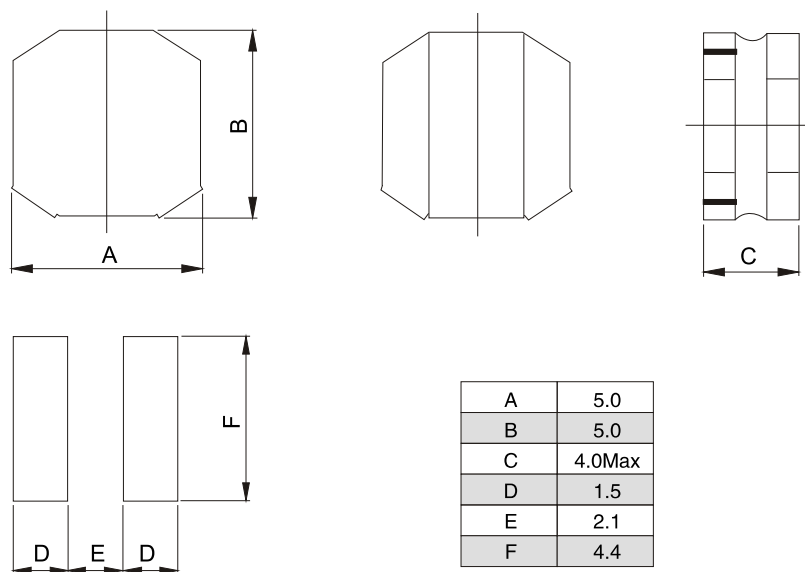
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 5x5mm, Height: 4.0mm 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
LPS5040-1R5N	1.5	± 30	100	60	0.013	7.3	4.45
LPS5040-2R2N	2.2	± 30	100	42	0.017	6.5	3.95
LPS5040-3R3N	3.3	± 30	100	32	0.025	5.1	3.4
LPS5040-4R7N	4.7	± 30	100	28	0.029	4.4	3.1
LPS5040-6R8M	6.8	± 20	100	21	0.043	3.8	2.4
LPS5040-100M	10	± 20	100	18	0.055	2.9	2.1
LPS5040-150M	15	± 20	100	13	0.089	2.3	1.6
LPS5040-220M	22	± 20	100	9	0.126	1.9	1.4
LPS5040-330M	33	± 20	100	7	0.192	1.6	1.2
LPS5040-470M	47	± 20	100	6	0.283	1.3	0.94

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.