

# SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded) LPS5020 SERIES



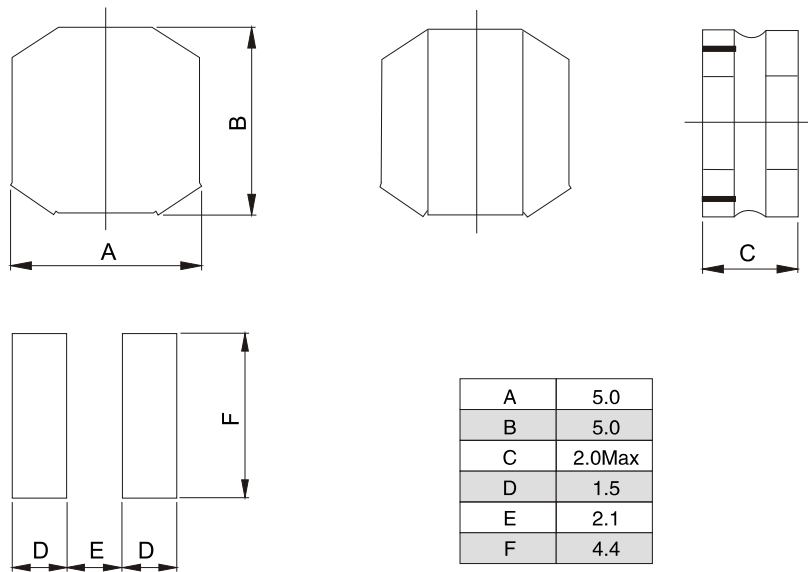
### FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 5x5mm, Height: 2.0mm 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
LPS5020-1R0N	1.0	± 30	100	97	0.018	4.33	3.7
LPS5020-1R5N	1.5	± 30	100	80	0.026	3.85	3.2
LPS5020-2R2N	2.2	± 30	100	61	0.035	3.85	2.9
LPS5020-3R3N	3.3	± 30	100	46	0.044	3.25	2.4
LPS5020-4R7N	4.7	± 30	100	33	0.059	2.40	2.05
LPS5020-6R8M	6.8	± 20	100	30	0.087	1.80	1.7
LPS5020-100M	10	± 20	100	24	0.110	1.79	1.50
LPS5020-150M	15	± 20	100	20	0.165	1.44	1.25
LPS5020-220M	22	± 20	100	16	0.235	1.18	1.05
LPS5020-330M	33	± 20	100	13	0.370	1.97	0.83

### 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.