

# SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded) LPS6020 SERIES



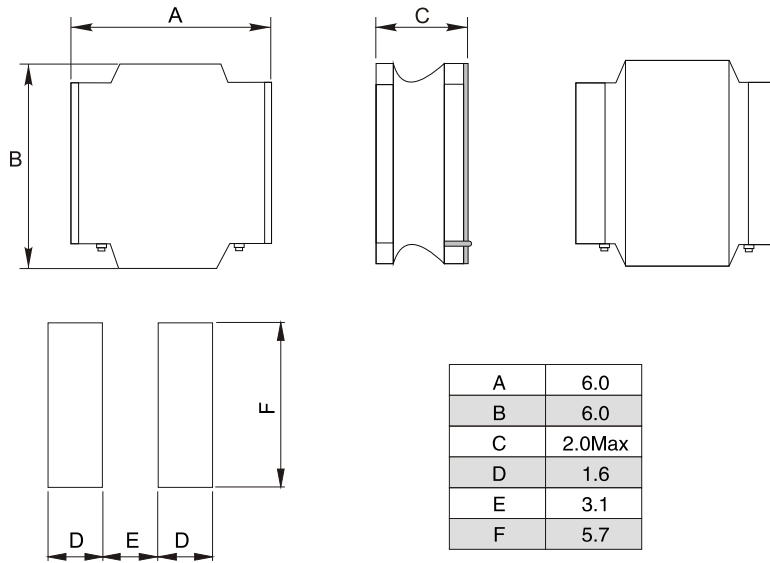
### FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 6x6mm, 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) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS6020-0R8N	0.8	± 30	100	110	0.02	5.5	3.8
LPS6020-1R5N	1.5	± 30	100	93	0.026	4.0	3.2
LPS6020-2R2N	2.2	± 30	100	73	0.034	3.2	2.7
LPS6020-3R3N	3.3	± 30	100	55	0.04	2.8	2.6
LPS6020-4R7N	4.7	± 30	100	43	0.058	2.4	2.0
LPS6020-6R8N	6.8	± 30	100	30	0.085	2.0	1.8
LPS6020-100M	10	± 20	100	18	0.125	1.7	1.4
LPS6020-220M	22	± 20	100	11	0.290	1.05	0.95

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.