

SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded) LPS6028 SERIES



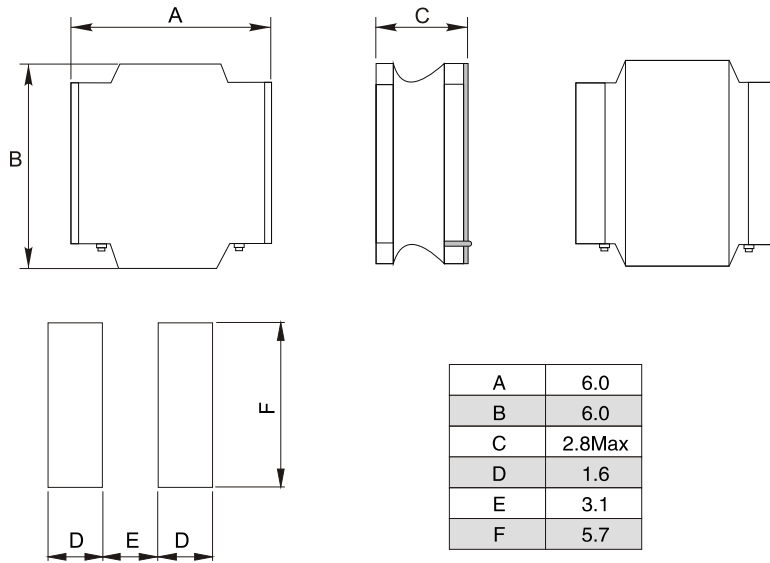
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 6x6mm, Height: 2.8mm 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
LPS6028-1R5N	1.5	± 30	100	65	0.013	6.00	4.58
LPS6028-2R2N	2.2	± 30	100	56	0.015	5.10	4.09
LPS6028-2R7N	2.7	± 30	100	48	0.020	3.80	3.75
LPS6028-3R3N	3.3	± 30	100	41	0.025	3.63	3.48
LPS6028-4R7N	4.7	± 30	100	35	0.030	3.00	3.08
LPS6028-5R1N	5.1	± 30	100	33	0.035	3.55	2.89
LPS6028-6R2M	6.2	± 20	100	30	0.040	3.05	2.58
LPS6028-6R8M	6.8	± 20	100	27	0.047	2.85	2.40
LPS6028-8R2M	8.2	± 20	100	24	0.055	2.60	2.25
LPS6028-9R1M	9.1	± 20	100	24	0.060	2.55	2.15
LPS6028-100M	10	± 20	100	23	0.072	2.04	1.95
LPS6028-120M	15	± 20	100	18	0.080	1.80	1.85

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ± 30%	Rated current*	
						Saturation current	Based on temperature rise
LPS6028-150M	15	± 20	100	18	0.125	1.75	1.45
LPS6028-180M	18	± 20	100	15	0.125	1.52	1.45
LPS6028-220M	22	± 20	100	14	0.140	1.60	1.40
LPS6028-270M	27	± 20	100	13	0.155	1.50	1.32
LPS6028-330M	33	± 20	100	12	0.185	1.35	1.22
LPS6028-360M	36	± 20	100	11	0.215	1.25	1.13
LPS6028-390M	39	± 20	100	11	0.225	1.25	1.10
LPS6028-430M	43	± 20	100	11	0.235	1.20	1.07
LPS6028-470M	47	± 20	100	9.5	0.245	1.15	1.06
LPS6028-510M	51	± 20	100	9.5	0.265	1.05	1.01
LPS6028-620M	62	± 20	100	7.7	0.345	0.95	0.89
LPS6028-680M	68	± 20	100	7.7	0.360	0.95	0.86
LPS6028-750M	75	± 20	100	7.7	0.410	0.90	0.81
LPS6028-820M	82	± 20	100	7.7	0.445	0.90	0.78
LPS6028-910M	91	± 20	100	7.7	0.505	0.80	0.73
LPS6028-101M	100	± 20	100	7.1	0.545	0.75	0.70

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 ($\Delta T=40^{\circ}\text{C}$) form 20°C ambient.