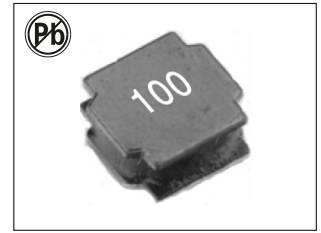


SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded) LPS8040 SERIES



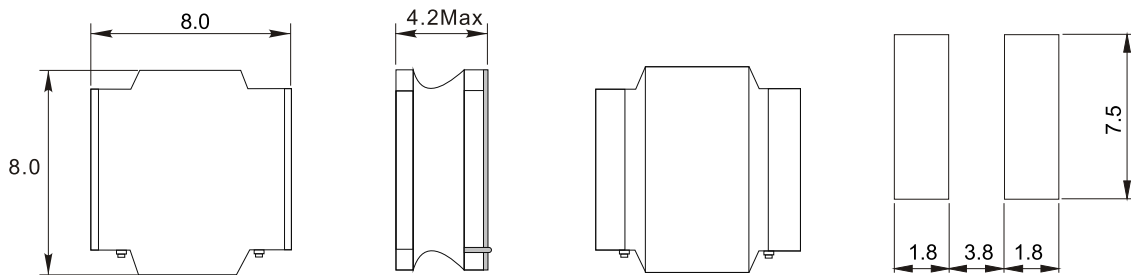
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 8x8mm, Height: 4.2mm 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) ± 30%	Rated current*	
						Saturation current	Based on temperature rise
LPS8040-R82N	0.82	± 30	100	94	0.008	13.80	6.30
LPS8040-1R0N	1.0	± 30	100	89	0.008	9.85	6.30
LPS8040-1R5N	1.5	± 30	100	67	0.010	8.15	5.65
LPS8040-2R0N	2.0	± 30	100	43	0.012	9.25	5.15
LPS8040-2R2N	2.2	± 30	100	41	0.012	7.10	5.15
LPS8040-3R0N	3.0	± 30	100	32	0.014	6.10	4.70
LPS8040-3R3N	3.3	± 30	100	27	0.017	6.50	4.40
LPS8040-3R9N	3.9	± 30	100	26	0.017	5.75	4.35
LPS8040-4R7N	4.7	± 30	100	24	0.019	5.90	4.10
LPS8040-5R1N	5.1	± 30	100	22	0.019	4.70	4.05
LPS8040-5R6N	5.6	± 30	100	24	0.021	6.00	3.85
LPS8040-6R2N	6.2	± 30	100	20	0.021	4.45	3.85
LPS8040-6R8M	6.8	± 20	100	20	0.024	4.55	3.60
LPS8040-8R2M	8.2	± 20	100	17	0.026	4.20	3.45
LPS8040-100M	10	± 20	100	15	0.029	3.60	3.30
LPS8040-150M	15	± 20	100	12	0.047	2.95	2.60
LPS8040-180M	18	± 20	100	11	0.053	2.70	2.40
LPS8040-220M	22	± 20	100	9.5	0.069	2.40	2.10
LPS8040-270M	27	± 20	100	9.2	0.078	2.15	2.00
LPS8040-330M	33	± 20	100	7.8	0.097	2.05	1.80

Part No.	Inductance (uH)	Inductance tolerance %	Test frequency KHz	SRF MHz	DCR (Ω) ± 30%	Rated current*	
						Saturation current	Based on temperature rise
LPS8040-360M	36	± 20	100	7.8	0.102	2.00	1.75
LPS8040-390M	39	± 20	100	7.8	0.107	1.95	1.70
LPS8040-430M	43	± 20	100	7.8	0.113	1.90	1.65
LPS8040-470M	47	± 20	100	.4	0.136	1.75	1.55
LPS8040-510M	51	± 20	100	6.4	0.142	1.70	1.50
LPS8040-560M	56	± 20	100	6.4	0.148	1.55	1.45
LPS8040-620M	62	± 20	100	6.4	0.182	1.50	1.30
LPS8040-680M	68	± 20	100	4.9	0.196	1.45	1.25
LPS8040-750M	75	± 20	100	4.9	0.211	1.35	1.20
LPS8040-820M	82	± 20	100	5.9	0.225	1.30	1.15
LPS8040-910M	91	± 20	100	4.9	0.272	1.20	1.05
LPS8040-101M	100	± 20	100	4.2	0.290	1.15	1.00
LPS8040-121M	120	± 20	100	3.5	0.334	1.05	0.95
LPS8040-221M	220	± 20	100	3.5	0.599	0.85	0.80
LPS8040-331M	330	± 20	100	2.8	0.889	0.68	0.64

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.