

LPS181214 SERIES

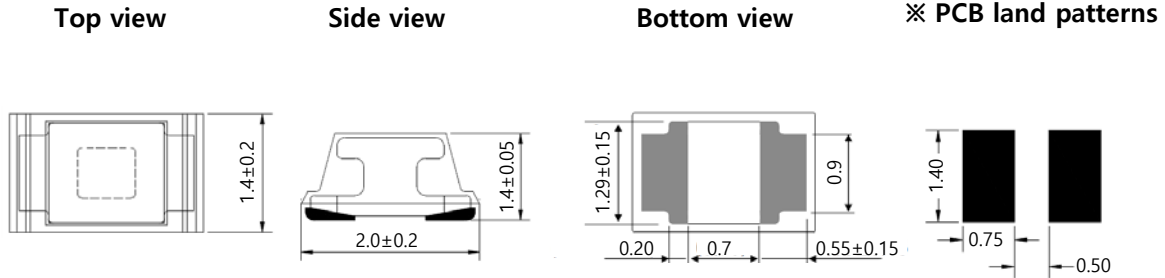


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LPS181214 SERIES

■ SHAPE & DIMENSIONS / RECOMMENDED SOLDER LAND PATTERN

Unit:mm



■ ELECTRICAL CHARACTERISTICS

() is typical value.

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc Max. (Ω)	Idc1 Max. (A)	Idc2 Typ. (A)
LPS181214T - 1R0M	1.0	± 20	100	0.160	1.30	1.68
LPS181214T - 1R5M	1.5	± 20		0.190	1.10	1.41
LPS181214T - 2R2M	2.2	± 20		0.280	0.95	1.18
LPS181214T - 3R3M	3.3	± 20		0.355	0.80	0.92
LPS181214T - 4R7M	4.7	± 20		0.540	0.65	0.68
LPS181214T - 6R8M	6.8	± 20		0.690	0.55	0.65
LPS181214T - 100M	10.0	± 20		1.200	0.47	0.58
LPS181214T - 150M	15.0	± 20		2.200	0.37	0.31
LPS181214T - 220M	22.0	± 20		2.550	0.30	0.30

▼ Test Equipments

- Inductance measured : Agilent E4980A Precision LCR Meter or equivalent(100kHz, 0.5V)
- Rdc : HIOKI 3540 mΩ HiTESTER or equivalent
- Idc1(The saturation current) : $\Delta L \leq 30\%$ reduction from initial L value
Agilent 4284A LCR Meter + Agilent 42841A Bias Current Source
- Idc2(The temperature rise): $\Delta T = 40^\circ\text{C}$ typical at rated DC current
Yokogawa DR130 Hybrid Recorder + Agilent 6692A DC Power Supply
- ※ Rated DC current(Idc) : The value of Idc1 or Idc2 , whichever is smaller

▼ Operating Temperature Range

-40 ~ +105°C (Including self-generated heat)