

LPS181210 SERIES



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■ SHAPE & DIMENSIONS / RECOMMENDED SOLDER LAND PATTERN

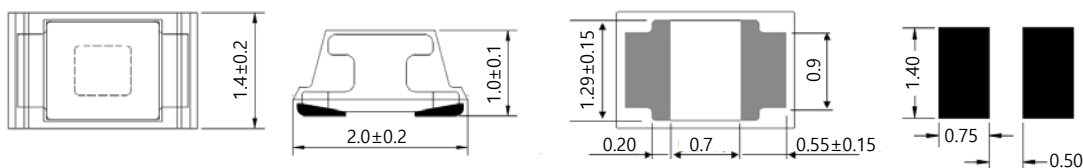
Unit:mm

Top view

Side view

Bottom view

※ PCB land patterns



■ ELECTRICAL CHARACTERISTICS

() is typical value.

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc Max. (Ω)	Idc1 Max. (A)	Idc2 Typ. (A)
LPS181210T - R47N	0.47	± 30	100	0.120	1.30	1.70
LPS181210T - 1R0N	1.0	± 30		0.190	0.85	1.42
LPS181210T - 1R5M	1.5	± 20		0.250	0.77	1.18
LPS181210T - 2R2M	2.2	± 20		0.390	0.63	0.96
LPS181210T - 3R3M	3.3	± 20		0.460	0.50	0.83
LPS181210T - 4R7M	4.7	± 20		0.580	0.45	0.73
LPS181210T - 6R8M	6.8	± 20		0.750	0.42	0.70
LPS181210T - 100M	10.0	± 20		1.350	0.28	0.46
LPS181210T - 150M	15.0	± 20		1.700	0.24	0.43
LPS181210T - 220M	22.0	± 20		2.450	0.19	0.34
LPS181210T - 330M	33.0	± 20		4.000	0.15	0.26
LPS181210T - 470M	47.0	± 20		6.100	0.13	0.20

▼ 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)