LP07 Series SMT High Current Low Resistance Inductors





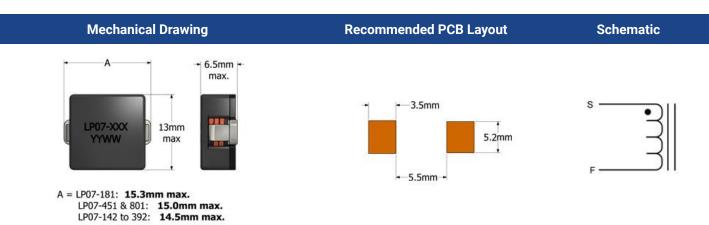
- Height: 6.5 mm (Max)
- Footprint: 15.3 mm x 13.0 mm (Max)
- I_{SAT} Current Rating: Up to 85A
- Frequency Range: Up to 1MHz
- Low Cost Design
- Low DCR
- Suitable for Pick & Place Applications

APPLICATIONS

AC/DC and DC/DC Converters Servers/Workstations Telecom Switches Voltage Regulation Modules

PACKAGING

Reel Diameter: 13" Reel Width: 24 mm Pieces/Reel: 350



Electrical Specifications @ 25°C - Operating Temperature Range 1: -40°C to +130°C				
Part Number	Inductance, L _s ² (µH, ±20%)	DCR (mΩ, Max.)	I _{SAT} ³ (A _{DC})	Ι _{DC} ⁴ (Α _{DC})
LP07-181	0.18	0.45	85	45
LP07-451	0.45	0.90	53	40
LP07-801	0.80	1.40	36	31
LP07-142	1.40	2.20	28	26
LP07-202	2.00	3.00	24	21
LP07-282	2.80	4.30	20	17
LP07-392	3.90	5.25	16	16

- 1. **Operating Temp. Range:** The combination of ambient temperature and temperature rise.
- 2. Inductance: Tested at 100 kHz, 0.1 V_{RMS}
- I_{SAT}: DC Current through the winding to cause a 20% (Nom) drop in inductance at 25°C ambient.
- I_{DC}: DC Current through the winding to cause 40°C temperature rise at 25°C ambient. PCB layout, trace thickness and width, airflow and proximity to other devices will affect the temperature rise.



Specifications subject to change without prior notice.