

LP06 Series

SMT High Current Low EMI Inductors



- Height: 5.5 mm (Max)
- Footprint: 13.5 mm x 13.8 mm (Max)
- I_{SAT} Current Rating: Up to 75A
- Frequency Range: Up to 1MHz
- Robust Design for High Current DC/DC Applications
- Compact Design for Easy SMT Mounting
- Magnetically Shielded for Reduced EMI

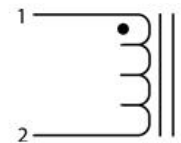
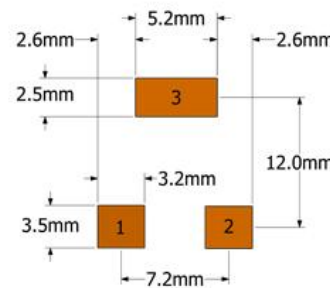
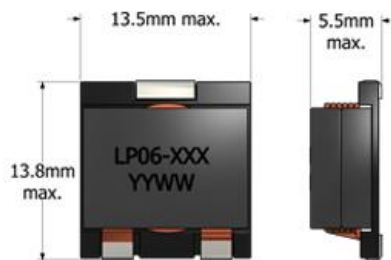
APPLICATIONS

Power Supply Modules
Notebook Computers
Servers

PACKAGING

Reel Diameter: 13"
Reel Width: 24 mm
Pieces/Reel: 600

Mechanical Drawing Recommended PCB Layout Schematic



Electrical Specifications @ 25°C - Operating Temperature Range¹: -40°C to +130°C

Part Number	Inductance, L_S ² (nH, $\pm 10\%$)	DCR (m Ω , Typ.)	I_{SAT} ³ (A _{DC})	I_{DC} ⁴ (A _{DC})
LP06-101	100	0.5	75	45.0
LP06-181	180	1.0	65	35.0
LP06-221	220	1.0	60	35.0
LP06-271	270	1.0	55	35.0
LP06-331	330	1.0	48	35.0
LP06-391	390	1.9	45	25.0
LP06-471	470	1.9	42	25.0
LP06-561	560	2.5	40	22.0
LP06-681	680	2.5	35	22.0
LP06-821	820	3.9	32	17.0
LP06-102	1000	3.9	28	17.0
LP06-222	2200	4.6	15	14.0
LP06-332	3300	6.3	12	12.0
LP06-422	4200	7.1	11	10.5
LP06-472	4700	7.1	10	9.5
LP06-562	5600	10.0	8	9.5
LP06-722	7200	12.0	7	8.0

- Operating Temp. Range:** The combination of ambient temperature and temperature rise.
- Inductance:** Tested at 1MHz, 0.1 V_{RMS}
- I_{SAT} :** DC Current through the winding to cause a 10% (Nom) drop in inductance.

- 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.
- Flammability Standard:** Meets UL 94V-0.



Specifications subject to change without prior notice.