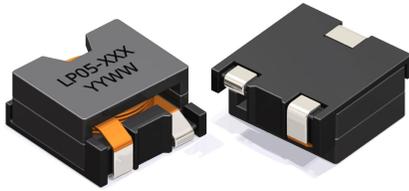


LP05 Series

SMT High Current Low Resistance Inductors



- Height: 5.2 mm (Max)
- Footprint: 10.2 mm x 10.8 mm (Max)
- I_{SAT} Current Rating: Up to 55A
- Frequency Range: Up to 1MHz
- Suitable for Pick & Place Applications
- Reduced ACR using Flat Wire
- Design Verified by Leading IC Manufacturers

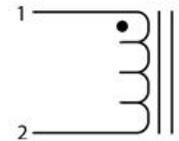
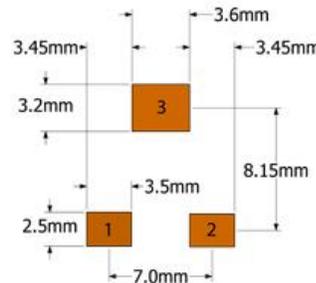
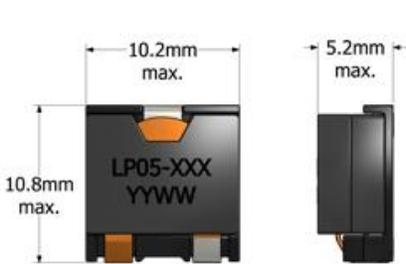
APPLICATIONS

- Voltage Regulation Modules
- Synchronous Buck Converters
- Point-of-Load Converters
- Output Chokes

PACKAGING

- Reel Diameter: 13"
- Reel Width: 24 mm
- Pieces/Reel: 700

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})
LP05-101 ⁶	100	0.56	55	40
LP05-181	180	1.30	45	28
LP05-221	220	1.30	40	28
LP05-271	270	1.30	35	28
LP05-331	330	1.30	30	28
LP05-391	390	2.10	30	22
LP05-471	470	2.10	25	22
LP05-561	560	3.30	25	18
LP05-681	680	3.30	20	18
LP05-821	820	4.50	20	14
LP05-102	1000	4.50	17	14
LP05-132	1300	4.50	12	14

- 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 15% (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.
- Height:** 5.7 mm Max
Length: 11.0 mm Max



Specifications subject to change without prior notice.