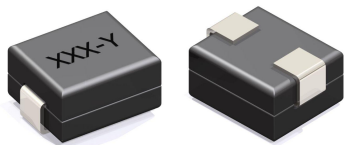


LP02-3 Series

High Current, Low Inductance, One Turn Inductors



- Height: 5.0 mm
- Footprint: 10.2 mm x 7.1 mm
- I_{SAT} Current Rating: Up to 72A
- Frequency Range: Up to 1MHz
- Suitable for Pick & Place Applications
- Design Verified by Leading IC Manufacturers

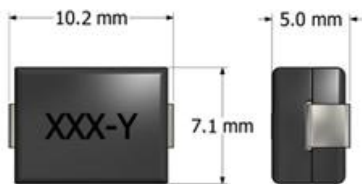
APPLICATIONS

Voltage Regulation Modules
High Frequency, High Current
Switching Power Supplies
Synchronous Buck DC/DC
Converters

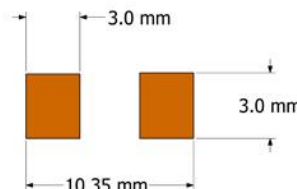
PACKAGING

Reel Diameter: 13"
Reel Width: 16 mm
Pieces/Reel: 800

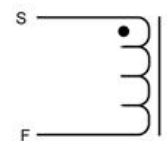
Mechanical Drawing



Recommended PCB Layout



Schematic



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

Part Number	Inductance, L_S ² (nH, $\pm 15\%$)	DCR ³ (m Ω , $\pm 10\%$)	I_{SAT} ⁴ (A _{DC})	I_{DC} ⁵ (A _{DC})
LP02-900-3	90	0.35	72	40
LP02-121-3	120	0.35	52	40
LP02-151-3	150	0.35	43	40
LP02-181-3	180	0.35	37	40
LP02-201-3	200	0.35	32	40
LP02-251-3	250	0.35	25	40
LP02-281-3	280	0.35	22	40
LP02-351-3	350	0.35	16	40
LP02-900-3AMG	90	0.50	68	29
LP02-121-3AMG	120	0.50	55	29
LP02-151-3AMG	150	0.50	43	29
LP02-181-3AMG	180	0.50	35	29
LP02-201-3AMG	200	0.50	30	29
LP02-251-3AMG	250	0.50	21	29
LP02-281-3AMG	280	0.50	20	29
LP02-351-3AMG	350	0.50	15	29

- Operating Temp. Range:** The combination of ambient temperature and temperature rise.
- Inductance:** Tested at 1MHz, 0.1 V_{RMS}
- Tighter DCR tolerances available.** Contact ICE for more details.
- 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.



Specifications subject to change without prior notice.

TEL.: 800-729-2099

www.icecomponents.com

April 29 2022 - LP02-3 Series