LP02-2 Series

High Current, Low Inductance, One Turn Inductors





o Height: 5.0 mm

○ Footprint: 9.0 mm x 7.0 mm

○ I_{SAT} Current Rating: Up to 65A

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

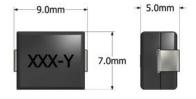
PACKAGING

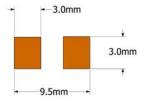
Reel Diameter: 13" Reel Width: 16 mm Pieces/Reel: 1000

Mechanical Drawing

Recommended PCB Layout

Schematic







Electrical Specifications @ 25°C - Operating Temperature Range 1: -40°C to +130°C				
Part Number	Inductance, L _s ² (nH, ±15%)	DCR ³ (mΩ, ±10%)	I _{SAT} ⁴ (A _{DC})	I _{DC} ⁵ (A _{DC})
LP02-101-2	100	0.3	65	48
LP02-151-2	155	0.3	42	48
LP02-181-2	180	0.3	33	48
LP02-201-2	210	0.3	25	48
LP02-231-2	235	0.3	24	48
LP02-301-2	310	0.3	16	48

- **1. Operating Temp. Range:** The combination of ambient temperature and temperature rise.
- 2. Inductance: Tested at 1MHz, 0.1 V_{RMS}
- 3. Tighter DCR tolerances available. Contact ICE for more details.
- I_{SAT}: DC Current through the winding to cause a 15% (Nom) drop in inductance.

5. 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 - LP02-2 Series