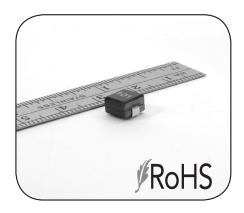
ICE Components, Inc.

#### /RM Inductor LP02-2 Series



#### **FEATURES**

- -Design verified by leading IC manufacturers
- -High saturation current of 65A
- -Designed for frequencies up to 1MHz
- -Suitable for pick and place applica-
- -Tighter DCR tolerances available. Contact ICE for additional Details

### **APPLICATIONS**

- -Voltage Regulator Modules (VRMs)
- -High Frequency, High Current Switching Power Supplies
- -Synchronous Buck DC/DC Converters

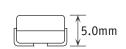
PACKAGING: Reel Diameter: 13", Reel Width: 16mm, Pieces Per Reel: 1,000

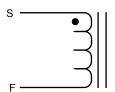
Voice: 800.729.2099

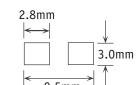
Fax: 678.560.9304

## Mechanical

# 9.0mm XXX-Y 7.0mm







**Recommended PCB Layout** 

## **Electrical Specifications**

Part Number	Inductance <sup>1</sup> (nH, ±15%)	DCR $\pm$ 10% (m $\Omega$ )	I <sub>sat</sub> 2 (A)	I <sub>dc</sub> 3 (A)
LP02-101-2	100	0.30	65	48
LP02-151-2	155	0.30	42	48
LP02-181-2	180	0.30	33	48
LP02-201-2	210	0.30	25	48
LP02-231-2	235	0.30	24	48
LP02-301-2	310	0.30	16	48

- 1. Tested @ 1MHz, 0.1Vrms.
- 2. Inductance drops 15% at rated  $I_{\text{\tiny sat}}$ .
- 3. DC current that causes a 40°C temperature rise. PCB layout, trace thickness and width, airflow and proximity to other devices will effect the temperature rise.
- 4. Electrical specifications at 25°C.
- 5. Operating temperature range: -40°C to +130°C.
- 6. Meets UL 94V-0.
- 7. Test equipment used includes HP4194A Impedance Analyzer, GPR-1210 HHD DC Power Supply, and CH502A Ohmmeter.