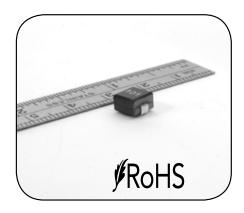
LP02-1 Series VRM Inductor





Features

- Design verified by leading IC manufacturers
- High saturation current of 85A
- Designed for frequencies up to 1MHz
- Suitable for pick and place applications
- 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

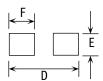
Packaging Reel Diameter: 13", Reel Width: 16mm, Pieces Per Reel: 1,000

Mechanical

A max XXX-Y B max







Recommended PCB Layout

Dimensions

Part Number	Α	В	С	D	Ε	F
LP02-XXX-1S	7.2mm	6.5mm	5.2mm	7.7mm	2.5mm	2 . 8mm
LP02-XXX-1	7.0mm	6.5mm	5.0mm	7.5mm	2.5mm	2.8mm

Electrical Specifications

Part	Inductance ¹	DCR nom.	I_{sat}^{-2}	I_{dc}^{3}
Number	(nH, nom.)	$(m\Omega)$	(A)	(A)
LP02-500-1S	50	0.22	85	50
LP02-800-1S	85	0.22	55	50
LP02-101-1	95	0.34	40	42
LP02-141-1	140	0.34	35	42
LP02-181-1	180	0.34	25	42
LP02-251-1	250	0.34	18	42

- 1. Tested @ 1MHz, 0.1Vrms.
- 2. Inductance drops 15% at rated $\boldsymbol{I}_{\scriptscriptstyle{sat}}.$
- 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.
- Test equipment used includes HP4194A Impedance Analyzer, GPR-1210 HHD DC Power Supply, and CH502A Ohmmeter.