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www.niccomp.com/series/NLVR

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NLVR Series

Improved DCR, Extended Temperature Rated High Current Power Inductors

In recent years, the Trans-Inductor Voltage Regulator (TLVR) has emerged as the next-generation topology for low-voltage, high-current, multi-phase power solutions. This innovative technology has been widely adopted by various applications, including datacenters, IoT storage systems, graphics cards, and AI, which all demand a multi-phase architecture to efficiently power processors, memory, and high-current ASICs and FPGAs. Specifically designed to support TLVR circuits,

NLVR9664	NLVR1005	NLVR1105
9.3 x 6.1 x 10.2 mm	10 x 5 x 12 mm	11.7 x 5.7 x 11 mm
100 ~ 220 nH	70 ~ 170 nH	70 ~ 220 nH
-40°C ~ +125°C Operating Temperature Range (Including Temp. Rise)		
+40°C Temp. Rise at Rated Irms		

Features / Benefits / Advantages

- Next generation TLVR application support
- High current ratings (Isat up to 160A)
- Inductance up to 220nH
- Low loss construction
- Low DCR

Applications

- Machine Learning
- AI
- Data mining / Crypto
- Cloud computing
- IOT data storage
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage Regulator Module (VRM)
- DCR sensing

For full specifications including Irms and Isat curves please refer to the NLVR series page, www.niccomp.com/series/NLVR