

# NIC PRODUCT PROFILE

## NPIM\_LP Series

Enhanced Performance Ultra Small High Current Power Inductors

### Description:

NPIM\_LP surpasses the NPIM\_L power inductors and NPM(H) metal composite chip inductors with the availability of 2 standard sizes. Case sizes ranging from 2.0mm X 1.6mm to 2.5mm X 2.0mm (LxW) with component heights of 1.0mm and 1.2mm. Inductance values range from 0.24uH ~ 10uH in ±20% (M) inductance tolerance.

Using an automatic assembly process makes ultra-small sizes possible while still allowing higher current ratings than conventional construction power inductors in the same size. Noise reduction is increased by use of its resin shielding material. An upgrade from standard ferrite based shielded power inductors, metal composite construction [NPIM] provides high saturation current characteristics, increased frequency performance, and higher efficiency.

Together with NIC's low ESR capacitors and metal film current sensing resistors the, NPIM\_LP series is ideal for use where both size and performance are key to the design.

### Get More Information:

Series Pages: [www.niccomp.com/series/NPIM\\_LP](http://www.niccomp.com/series/NPIM_LP)

All Inductors: [www.niccomp.com/inductors](http://www.niccomp.com/inductors)

All Magnetics: [www.niccomp.com/magnetics](http://www.niccomp.com/magnetics)

Automotive Grade: [www.niccomp.com/auto](http://www.niccomp.com/auto)

### Characteristics:

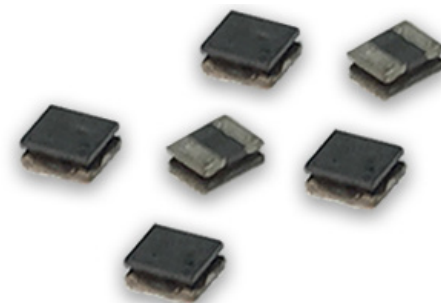
Series	Size (mm)	Inductance Range	DCR Range	I <sub>rms</sub> Max	I <sub>sat</sub> Max
NPIM26LP	2.0 × 1.6 × 1.0mm	0.24 ~ 4.7uH	15mΩ ~ 216mΩ	6.5A	7.5A
NPIM20LP	2.5 × 2.0 × 1.0mm	0.24 ~ 4.7uH	18mΩ ~ 216mΩ	6.0A	9.5A
NPIM21LP	2.5 × 2.0 × 1.2mm	0.24 ~ 10uH	18mΩ ~ 475mΩ	6.0A	8.0A

### Search with QuickBUILDER



- ◇ Over 12,000 inductors to search
- ◇ Compare up to 5 results Side-By-Side
- ◇ Sort by Price & Series Focus
- ◇ Lifecycle, Upgrades, and Application Focus

Visit [NICcomp.com/QB-Inductors](http://NICcomp.com/QB-Inductors)



### NPIM\_LP Co-Sell Products

- ◇ Hybrid Aluminum E-Caps [NSPE\*]
- ◇ Solid Chip Aluminum E-Caps [NSPx]
- ◇ High CV MLCC's [NMC]
- ◇ Current Sensing Resistors [NCS\*, NCL\*]
- ◇ Ferrite Chip Beads [NCB\*]

### Cross & Replace with NPIM\_LP

- ◇ Murata LQH, DFE Series
- ◇ Taiyo Yuden MDMK, MAKK Series
- ◇ Toko DFE Series
- ◇ Cynotec PSE Series

### NPIM\_LP Suggested Applications

- ◇ DC-DC Converters
- ◇ LED Drivers
- ◇ Point of Sale equipment
- ◇ GPS devices
- ◇ Wireless Communications
- ◇ Sensors & Controllers
- ◇ Security & Alarm

Don't see an application above? Contact NIC TPMG to review NPIM\_LP usage



NIC Components Corp.



Cross & Replacement Support ... [tpmg@niccomp.com](mailto:tpmg@niccomp.com)