



 www.niccomp.com/series/NPIM_V

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NPIM_V Series

Improved DCR, Extended Temperature Rated High Current Power Inductors

As a significant enhancement to the NPIM_PA series, the NPIM_V series maintains the same footprint range. However, advancements in materials and construction have yielded a lower DCR range and improved efficiency. Moreover, the operating temperature range has been extended to an impressive +165°C, delivering an all-encompassing performance upgrade for demanding applications.

NPIM53V	NPIM63V	NPIM104V	NPIM106V	NPIM127V
5.5 x 4.9 x 3.0 mm	7.1 x 6.6 x 3.0 mm	11 x 10.1 x 4.0 mm	11 x 10.1 x 5.4 mm	13.6 x 12.6 x 6.5 mm
0.10 ~ 15µH	0.47 ~ 22µH	0.47 ~ 47µH	0.33 ~ 100µH	0.47 ~ 100µH
-55°C ~ +165°C Operating Temperature Range (Including Temp. Rise)				
+40°C Temp. Rise at Rated Irms				
-30% Inductance Drop at Rated Isat				

Features / Benefits / Advantages

- Ultra-low DCR Construction
- Extended -55 ~ 165°C Operating Range
- High Isat & Irms Ratings
- Five Footprint Options
- AEC-Q200 Qualified

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

Applications

- High Current DC-DC Converters
- Battery Charging Systems
- Solar Inverters
- In dash and lighting automotive applications
- LED drivers
- Motor control noise suppression
- Networking and data storage