



NPIM_HA Series

Hot Press Carbonyl Shielded Power Inductors

The NPIM_HA series is an improvement over our current NPIM_PA series, offering higher performance with saturation currents of up to 40A and very low DCR down to 1.9mΩ. Inductance values range from 0.1μH to 22μH with ±20% tolerance and an extended temperature rating of -40°C to +125°C.

The NPIM_HA series represents a significant advancement in our offering of surface mount power inductors, designed to meet the increasing demands of modern electronic systems. Featuring advanced construction with hot press technology and carbonyl iron powder, these inductors offer enhanced core consistency and thermal stability. This results in superior performance and reliability, making them ideal for a wide range of high-end applications.

Series Specifications

Series	NPIM_HA
Upgrade From (Replaces)	NPIM_P, NPIM_PA
Sizes	4.3x4.2, 5.7x5.3, 7.3x6.6
Inductance	0.1μH to 22μF
Tolerance	±20%
Thickness Range	2.1 ~ 3.0 Max.

Features / Benefits / Advantages

- High Saturation Current Characteristics
- Ultra-Low DCR
- High Frequency Performance
- Stable High-Frequency Performance
- Compact and Versatile Sizes
- Broad Inductance Range

Applications

- DC/DC Converters
- LED Drivers
- Motor control noise suppression
- AI computing

Parameter	NPIM42S	NPIM42PA	NPIM42ZD	NPIM42HA
Inductance	2.2uH	2.2uH	2.2uH	2.2uH
Isat	5.0A	6.0A	4.8A	6.5A
Irms	4.5A	4.0A	8.0A	6.5A
DCR	58mΩ	61mΩ	23.5mΩ	25mΩ