

# NIC PRODUCT PROFILE

## NPIM Series

### Metal Composite Shielded Power Inductors

#### Description:

NIC Components has extended its surface mount power inductor line to include metal composition inductors. An upgrade from our ferrite based shielded power inductors molded metal composite construction provides high saturation current characteristics (up to 110A) and high efficiency (2x improvement). Supplied in low profile (1.8mm ~ 5.2mm height) format for automated placement PCB assembly. Covering inductance range of .1uH to 10uH in 9 different size combinations.

#### Characteristics:

**Temperature Range** : -55°C ~ +125°C

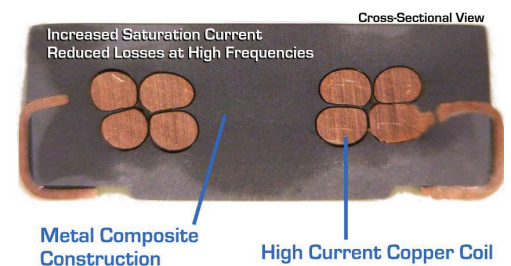
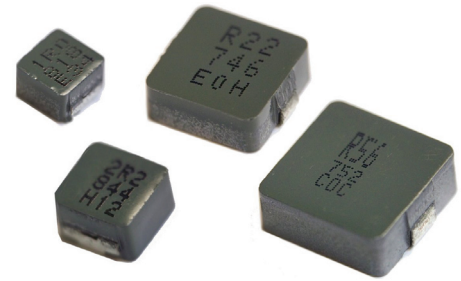
**Inductance** : .1uH ~ 10uH

**Inductance Tolerance** : ±20%, ±30%

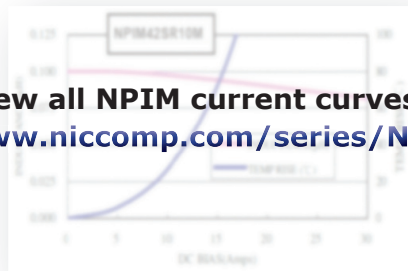
**High Isat Current Ratings** up to 110 Amps

**Low DC Resistance** in milli Ohm (mΩ) range

**9 Height & Size Cominations**



View all NPIM current curves @ [www.niccomp.com/series/NPIM](http://www.niccomp.com/series/NPIM)



PARTS IN  
NIC  
QUICK  
KIT



[www.NICcomp.com/QK](http://www.NICcomp.com/QK)

NPIM\_C Series Cross and Replace Reference Guide

NIC	Vishay	Coilcraft	TDK	NEC Tokin	Panasonic
NPIM42C (4.15 X 4.0 X 1.8)	IHLP1616BZ	***	***	***	***
NPIM53C (4.85 X 4.7 X 2.8)	***	***	***	***	***
NPIM72C (7.05 X 6.6 X 1.6)	IHLP2525AH	***	***	***	***
NPIM73C (6.95 X 6.6 X 2.2)	IHLP2525BD	***	***	***	***
NPIM74C (6.95 X 6.6 X 2.8)	IHLP2525CZ	***	SPM6530	***	***
NPIM103C (refer to datsheet)	IHLP4040DZ	MLC12xx	SPM10050T	MPC1040L	PCC-ML104L
NPIM104C (refer to datsheet)					
NPIM143C (refer to datsheet)	IHLP5050CE	MVR	SPM12550	***	***
NPIM145C (refer to datsheet)	IHLP5050EZ			***	***

#### APPLICATIONS:

- Power Supplies
- Microprocessors
- SMPS
- DC-DC Converters
- Data Communication
- Industrial Controls
- Wireless Systems
- Low Pass Elliptic
- Security & Alarm
- PoL Regulation
- Monitors