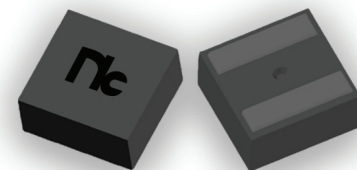


NIC PRODUCT PROFILE

NPIM_Z Series

AECQ200 Ultra High Performance High Current Power Inductors



Description:

Similar to recent series additions from NIC, such as the NPM(H) and NPIM_L series, the NPIM_Z extends construction availability into the metal composite lineup. The NPIM_Z focuses on reliability and performance including current ratings, ultra-low DCR, very low acoustic noise and very low leakage flux noise. Four footprints are available with sizes ranging from 4.1mm X 4.1mm to 6.6mm X 6.4mm (LxW) with component heights of 1.9mm to 4.8mm. Inductance values range from 0.1uH ~ 4.7uH in $\pm 20\%$ (M) inductance tolerance.

An upgrade from standard ferrite based shielded power inductors molded metal composite construction provides high saturation current characteristics, increased frequency performance, and higher efficiency at higher switching frequencies, making these ideal choices for today's efficient DC-DC converters and high density circuits.

The NPIM_Z series is available in an AECQ200 option for use in automotive grade applications or where higher quality components may be required.

Get More Information:

Series Pages: www.niccomp.com/series/npim_z

All Inductors: www.niccomp.com/inductors

All Magnetics: www.niccomp.com/magnetics

Automotive Grade: www.niccomp.com/auto

Characteristics:

Series	Size (mm)	Inductance Range	DCR Range	I _{rms} Max	I _{sat} Max
NPIM42Z	4.1 x 4.1 x 1.9mm	0.1uH ~ 2.2uH	2.42mΩ ~ 38.7mΩ	18A	38A
NPIM42ZD	4.1 x 4.1 x 1.9mm	0.47uH ~ 4.7uH	6.8mΩ ~ 57.2mΩ	13.2A	14A
NPIM52Z	5.5 x 5.3 x 1.9mm	0.15uH ~ 1.5uH	4.6mΩ ~ 18.7mΩ	18.8A	30A
NPIM53Z	5.5 x 5.3 x 2.9mm	0.15uH ~ 4.7uH	0.6mΩ ~ 240mΩ	43A	75A
NPIM63Z	6.6 x 6.4 x 2.9mm	0.18uH ~ 4.5uH	2.31mΩ ~ 36.3mΩ	22.2A	36A
NPIM65Z	6.6 x 6.4 x 4.8mm	1.0uH ~ 4.7uH	1.75mΩ ~ 25.3mΩ	32A	40A

NPIM_Z Co-Sell Products

- ◇ Hybrid Aluminum E-Caps (NSPE-TF)
- ◇ Thin Film Chip Resistors (NTRA)
- ◇ Ferrite Chip Beads (NCB, NCB-H)

Cross & Replace with NPIM_Z

- ◇ Coilcraft XAL, XEL, XFL Series
- ◇ Sumida CMDC Series

NPIM_Z Automotive Applications

- ◇ **Passenger Comfort**
 - Electric Windows & Roof
 - Climate Control
 - Navigation
 - Entertainment Systems
 - Seat Control & Heating
 - Ethernet Gateway
 - Headlamp Control
 - Windshield Wiper
 - Instrumentation Cluster
- ◇ **Convenience**
 - Keyless Entry
 - Automatic Rain Sensors
 - LED lighting
 - CAN BUS System
- ◇ **Power Train**
 - Electronic Throttle Control
 - Cooling Fan Control
 - Electrical gear shifter
- ◇ **Crash Avoidance**
 - Adaptive Cruise Control
 - Radar
 - Parking Sensors
 - Rear View Cameras
 - Front View Cameras
 - Displays for Lane Departure Warning
 - Automatic Parking System
- ◇ **Safety & Security**
 - Tire Pressure Monitoring
 - Theft Prevention
 - Occupant Detection

Don't see an application above? Contact NIC TPMG to review NPIM_Z usage

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