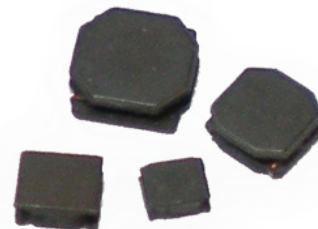


NIC PRODUCT PROFILE

NPIS_LA Series

AECQ200 Metal Composite High Current Power Inductors



Description:

NPIS_LA surpasses the standard NPIS_Lx with meeting the requirements of AECQ200 for automotive grade applications. Seven case sizes ranging from 3.0mm X 3.0mm to 8.0mm X 8.0mm (LxW) each with component heights from 1.0mm and 4.5mm. Inductance values range from 0.36uH ~ 470uH in $\pm 20\%$ (M) or $\pm 30\%$ (M) inductance tolerances.

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 making these ideal choices for today's efficient DC-DC converters.

The NPIS_LA series meets the requirements of AECQ200 and suggested for use in automotive grade applications or where higher quality components may be required.

Get More Information:

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

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
NPIS30LA	3.0x3.0x1.0mm	1.0 ~ 22uH	0.055Ω ~ 0.750Ω	2.1A	1.8A
NPIS32LA	3.0x3.0x1.2mm	1.0 ~ 22uH	0.042Ω ~ 0.580Ω	2.0A	2.15A
NPIS35LA	3.0x3.0x1.5mm	1.0 ~ 47uH	0.03Ω ~ 1.2Ω	2.2A	2.2A
NPIS40LA	4.0x4.0x1.0mm	1.0 ~ 22uH	0.056Ω ~ 0.57Ω	1.9A	2.0A
NPIS42LA	4.0x4.0x1.2mm	1.0 ~ 22uH	0.042Ω ~ 0.57Ω	2.2A	2.8A
NPIS65LA	6.0x6.0x4.5mm	0.36 ~ 470uH	0.0048Ω ~ 205Ω	8.5A	16.5A
NPIS84LA	8.0x8.0x4.2mm	1.0 ~ 470uH	0.0082Ω ~ 130Ω	8A	13A

Operating temperature range of -40°C ~ +125°C (AECQ200 85C Tested)

Search with QuickBUILDER

- ◆ Over 8,000 Inductors to Search
- ◆ Compare up to 5 results Side-By-Side
- ◆ Sort by Price & Series Focus
- ◆ Lifecycle, Upgrades, and Application Focus

NICcomp.com/QB-Inductors

NPIS_LA Co-Sell Products

- ◆ Hybrid Aluminum E-Caps (NSPE-TF)
- ◆ Thin Film Chip Resistors (NTRA)
- ◆ Ferrite Chip Beads (NCB, NCB-H)
- ◆ Multilayer Ceramic Capacitors (NMC-A)

Cross & Replace with NPIS_LA

- ◆ Taiyo Yuden NRS Series
- ◆ Coilcraft LPS Series
- ◆ Murata LQH Series

NPIS_LA 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 NPIS_LA usage



NIC Components Corp.



Cross & Replacement Support ... tpmg@niccomp.com