



New NN3100xA Series

Power Supply In Package (PSiP)



A Single Chip PSiP with Greater than 94% Efficiency for Point-of-Load Designs!

Panasonic, a worldwide leader in Semiconductor Products, is pleased to introduce the **NEW NN3100xA Series Power Supply in Package (PSiP)**. Featuring a small 8.5 x 7.5 x 4.7mm QFN package, the **NN3100xA Series** is a single channel, synchronous DC-DC step down regulator PSiP. As a single chip solution, this series integrates a Controller IC that employs a hysteretic control system, two Power MOSFETs, an Inductor and Capacitors. With a very small footprint and the integration of external components, the **NN3100xA Series** offers compact and simplified solutions for applications requiring point-of-load design. The number of external components have been reduced to only input/output capacitors, a slow start capacitor and feedback resistors. For applications requiring an output voltage of 1.0 V / 3.3 V, the external feedback resistors can be eliminated, resulting in an even smaller footprint. The **NN3100xA Series** achieves efficiencies of greater than 94% with low power consumption and low heat generation.

Features

- High-Speed Response DC-DC Step Down Regulator Circuit that employs Hysteretic Control System
- Built-In MOSFETS, Inductor, and Capacitors
- 10A Maximum Output Current (NN31000A-BB)
- Input Voltage Range : $PV_{IN}=AV_{IN} = 4.5 V$ to 28 V
- Output Voltage Range : 0.6 V to 5.5 V
- RoHS / REACH Compliant

Benefits

- Small Footprint on PCB (8.5 x 7.5 x 4.7mm QFN package)
- Reduced Number of External Components
- Achieves Efficiencies Greater than 94%
- Low Power Consumption and Low Heat Generation

Industries

- Industrial Electronics
- Consumer Electronics
- Security

Applications

- DSP and FPGA Point-of-Load Applications
- Routers
- Computer Servers
- Surveillance Cameras

Website: <http://us.panasonic.com/industrial>
industrial@us.panasonic.com
1-800-344-2112

Part Number Information

N N 3 1 0 0 0 A - B B

Output Current

0	10 A Max.
1	7A Max.
2	4A Max.

Additional Information

For detailed specification information on the **NN3100xA Series**, visit our website at:

www.us.panasonic.com/industrial/electronic-components/semiconductors/