

## Product Overview

### NCP1090: Controller, PoE-PD Interface, Integrated

For complete documentation, see the data sheet.



The NCP1090, NCP1091 and NCP1092 are members of ON Semiconductor's high power HIPO™ Power over Ethernet Powered Device (PoE-PD) product family and integrate an IEEE 802.3af PoE-PD interface controller.

#### Features

- Fully supports IEEE 802.3af specifications
- 500 mA operational current limit
- Industrial temperature range -40°C to 85°C with full operation up to 125°C junction temperature
- Vertical N-Channel DMOS pass switch offers the robustness of discrete MOSFETs

#### Benefits

- Broad compatibility with power sourcing equipment
- Headroom above the IEEE 802.3af power limitation
- Extended operational range
- More durable than most integrated products

#### Applications

- Wireless access points
- Voice over IP products
- IP camera

#### End Products

- WiMax
- WiFi
- Motor control

#### Part Electrical Specifications

| Product     | Pricing (\$/Unit) | Compliance  | Status | Topology | Phases | Control Mode | V <sub>CC</sub> Min (V) | V <sub>CC</sub> Max (V) | f <sub>sw</sub> Typ (kHz) | Package Type |
|-------------|-------------------|-------------|--------|----------|--------|--------------|-------------------------|-------------------------|---------------------------|--------------|
| NCP1090DBRG |                   | Pb-free     | Active |          |        |              | 36                      | 57                      |                           | TSSOP-8      |
|             |                   | Halide free |        |          |        |              |                         |                         |                           |              |
| NCP1090DG   |                   | Pb-free     | Active |          |        |              | 36                      | 57                      |                           | SOIC-8       |
|             |                   | Halide free |        |          |        |              |                         |                         |                           |              |
| NCP1090DRG  |                   | Pb-free     | Active |          |        |              | 36                      | 57                      |                           | SOIC-8       |
|             |                   | Halide free |        |          |        |              |                         |                         |                           |              |

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Created on: 7/6/2020