

## 製品概要

### NCP145: LDO Regulator, 500 mA, Ultra-Low Dropout, High PSRR, with Bias Rail

技術情報は、データシートをご参照ください。

NCP145 is a 500 mA LDO equipped with NMOS pass transistor and a separate bias supply voltage (VBIAS). The device provides very stable, accurate output voltage with low noise suitable for space constrained, noise sensitive applications. In order to optimize performance for battery operated portable applications, the NCP145 features low IQ consumption. The XDFN4 1.2 mm x 1.2 mm package is optimized for use in space constrained applications.

#### 特長

- Ultra-Low Dropout of Typ. 140mV
- Fixed Output Voltage options from 1.0V to 1.8V
- 140 mV typical dropout at the full 500 mA load.
- Guaranteed Output Current from 0mA to 500mA
- 0.5% Typical Output Voltage Accuracy
- Output Current in Excess of 500mA
- Output Active Discharge option available

#### アプリケーション

- Portable and Battery Powered Equipment

#### 利点

- Allows to save power and operates with very low Vin-Vout voltage.
- Excellent choice for low voltage Vcore applications
- minimizes the power loss across the regulator
- Very good choice for high current applications
- Perfect fit for POL applications

#### 最終製品

- Smartphones
- Tablets
- Cameras
- DVRs
- Camcorders

#### 電気的仕様

| 製品              | Pricing (\$/Unit) | Compliance             | Status | Output | Polarity | V <sub>O</sub> (V) | I <sub>O</sub> Typ (A) | V <sub>I</sub> Min (V) | V <sub>I</sub> Max (V) | V <sub>DO</sub> Typ (V) | I <sub>q</sub> Typ (mA) | PSRR (dB) | Noise (μV <sub>rms</sub> ) | Enable | Power Good | Package Type |
|-----------------|-------------------|------------------------|--------|--------|----------|--------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-----------|----------------------------|--------|------------|--------------|
| NCP145AMX100TCG | 0.1067            | Pb-free<br>Halide free | Active | Single | Positive | 1                  | 0.5                    | 1                      | 5.5                    | 0.14                    | 0.08                    | 80        | 40                         | Yes    | No         | XDFN-4       |
| NCP145AMX105TCG | 0.1067            | Pb-free<br>Halide free | Active | Single | Positive | 1.05               | 0.5                    | 1.05                   | 5.5                    | 0.14                    | 0.08                    | 80        | 40                         | Yes    | No         | XDFN-4       |
| NCP145AMX120TCG | 0.1067            | Pb-free<br>Halide free | Active | Single | Positive | 1.2                | 0.5                    | 1.2                    | 5.5                    | 0.14                    | 0.08                    | 80        | 40                         | Yes    | No         | XDFN-4       |
| NCP145CMX120TCG | 0.1067            | Pb-free<br>Halide free | Active | Single | Positive | 1.2                | 0.5                    | 1.2                    | 5.5                    | 0.14                    | 0.08                    | 80        | 40                         | Yes    | No         | XDFN-4       |

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8/13/2020 作成