

製品概要

NCV8164: 300mA LDO Regulator, Ultra-Low Noise, High PSRR with Power Good

技術情報は、データシートをご参照ください。

The NCV8164 is a next generation of high PSRR, ultra-low noise LDO capable of supplying 300 mA output current. Designed to meet the requirements of RF and sensitive Analog circuits, the NCV8164 device provides ultra-low noise, high PSRR and low quiescent current. The device also offer excellent load/line transients. The NCV8164 is designed to work with a 1 μ F input and a 1 μ F output ceramic capacitor. It is available in WDFN6 0.65P 2 x 2 mm, DFNW8 0.65P 3 x 3 mm, and TSOP-5 packaging.

特長

- 1.6V to 5.5V input voltage
- PSRR: 85 dB at 1 kHz
- Low VDO at 2.8V @80mV max dropout
- Ultra-Low Noise: 9 μ VRMS
- WDFN6 2 mm x 2 mm, DFNW8 3 mm x 3 mm, and TSOP-5

- 150C operating Junction temperature

アプリケーション

- Image Sensor Power Supply
- RF, PLL, VCO, and Clock Power Supplies
- Communication Systems and Infotainment
- Point of Load

利点

- Operational from low 1.8V VIN rails
- Improved input ripple rejection
- Allows low VIN for greater efficiency
- Ultra-Low self generated noise
- Excellent thermal performance or widely used TSOP-5 (SOT-23) packaging
- Enables higher power capability with extended temperatures

最終製品

- Camera Modules
- RF Transceivers
- General Purpose Automotive

| 製品 | Pricing (\$/Unit) | Compliance | Status | Output | Polarity | V _O (V) | I _{O Typ} (A) | V _{I Min} (V) | V _{I Max} (V) | V _{DO Typ} (V) | I _{g Typ} (mA) | PSR R (dB) | Noise (μV _{rms}) | Enable | Power Good | Application | Package Type |
|-------------------|-------------------|---|--------|--------|--------------|--------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|------------|----------------------------|--------|------------|-------------|--------------|
| NCV8164AML120TCG | 0.4123 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 1.2 | 0.3 | 1.6 | 5.5 | | 0.03 | 85 | 9 | Yes | Yes | Automotive | DFN W-8 |
| NCV8164AML150TCG | 0.4123 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 1.5 | 0.3 | 1.6 | 5.5 | 0.18 | 0.03 | 85 | 9 | Yes | Yes | Automotive | DFN W-8 |
| NCV8164AML180TCG | 0.4123 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 1.8 | 0.3 | 1.6 | 5.5 | 0.165 | 0.03 | 85 | 9 | Yes | Yes | Automotive | DFN W-8 |
| NCV8164AML250TCG | 0.4123 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 2.5 | 0.3 | 1.6 | 5.5 | 0.14 | 0.03 | 85 | 9 | Yes | Yes | Automotive | DFN W-8 |
| NCV8164AML280TCG | 0.4123 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 2.8 | 0.3 | 1.6 | 5.5 | 0.13 | 0.03 | 85 | 9 | Yes | Yes | Automotive | DFN W-8 |
| NCV8164AML300TCG | 0.4123 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 3 | 0.3 | 1.6 | 5.5 | 0.127 | 0.03 | 85 | 9 | Yes | Yes | Automotive | DFN W-8 |
| NCV8164AML330TCG | 0.4123 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 3.3 | 0.3 | 1.6 | 5.5 | 0.125 | 0.03 | 85 | 9 | Yes | Yes | Automotive | DFN W-8 |
| NCV8164AMLADJTCG | 0.4123 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive Adj | | 0.3 | 1.6 | 5.5 | | 0.03 | 85 | 9 | Yes | Yes | Automotive | DFN W-8 |
| NCV8164AMTW120TAG | 0.2683 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 1.2 | 0.3 | 1.6 | 5.5 | | 0.03 | 85 | 9 | Yes | Yes | Automotive | WDF NW-6 |
| NCV8164AMTW180TAG | 0.2683 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 1.8 | 0.3 | 1.6 | 5.5 | 0.155 | 0.03 | 85 | 9 | Yes | Yes | Automotive | WDF NW-6 |
| NCV8164AMTW280TAG | 0.2683 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 2.8 | 0.3 | 1.6 | 5.5 | 0.115 | 0.03 | 85 | 9 | Yes | Yes | Automotive | WDF NW-6 |

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|-------------------|--------|---|--------|--------|----------|-----|-----|-----|-----|-------|------|----|---|-----|-----|------------|--------------------|
| NCV8164AMTW290TAG | 0.2683 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 2.9 | 0.3 | 1.6 | 5.5 | 0.114 | 0.03 | 85 | 9 | Yes | Yes | Automotive | WDF NW-6 |
| NCV8164AMTWADJTAG | 0.3577 | AEC Qualified PPAP Capable Pb-free Halide free | NEW | Single | Positive | Adj | 0.3 | 1.6 | 5.5 | | 0.03 | 85 | 9 | Yes | Yes | Automotive | WDF NW-6 |
| NCV8164ASN120T1G | 0.18 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 1.2 | 0.3 | 1.6 | 5.5 | | 0.03 | 85 | 9 | Yes | Yes | Automotive | TSO P-5 / SOT-23-5 |
| NCV8164ASN150T1G | 0.18 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 1.5 | 0.3 | 1.6 | 5.5 | 0.17 | 0.03 | 85 | 9 | Yes | Yes | Automotive | TSO P-5 / SOT-23-5 |
| NCV8164ASN180T1G | 0.18 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 1.8 | 0.3 | 1.6 | 5.5 | 0.155 | 0.03 | 85 | 9 | Yes | Yes | Automotive | TSO P-5 / SOT-23-5 |
| NCV8164ASN250T1G | 0.18 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 2.5 | 0.3 | 1.6 | 5.5 | 0.125 | 0.03 | 85 | 9 | Yes | Yes | Automotive | TSO P-5 / SOT-23-5 |
| NCV8164ASN280T1G | 0.18 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 2.8 | 0.3 | 1.6 | 5.5 | 0.115 | 0.03 | 85 | 9 | Yes | Yes | Automotive | TSO P-5 / SOT-23-5 |
| NCV8164ASN300T1G | 0.18 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 3 | 0.3 | 1.6 | 5.5 | 0.113 | 0.03 | 85 | 9 | Yes | Yes | Automotive | TSO P-5 / SOT-23-5 |
| NCV8164ASN330T1G | 0.18 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | 3.3 | 0.3 | 1.6 | 5.5 | 0.11 | 0.03 | 85 | 9 | Yes | Yes | Automotive | TSO P-5 / SOT-23-5 |
| NCV8164ASNADJT1G | 0.18 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | Adj | 0.3 | 1.6 | 5.5 | | 0.03 | 85 | 9 | Yes | Yes | Automotive | TSO P-5 / SOT-23-5 |

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