

製品概要

NCP161: LDO レギュレータ、450 mA、超高 PSRR、超低ノイズ

技術情報は、データシートをご参照ください。



NCP161 は、450 mA の出力電流を供給できるリニア・レギュレータです。RF/アナログ回路の要件を満たすよう設計された NCP161 は、低ノイズ、高 PSRR、低静止電流で、負荷/活線過渡が非常に優れています。1 μ F 入力 1 μ F 出力のセラミック・キャパシタと連携する設計です。2 つの超薄型 0.35P、0.65 mm x 0.65 mm チップ・スケール・パッケージ (CSP)、XDFN-4 0.65P、1 mm x 1 mm TSOP5 パッケージで提供されます。

特長

- Ultra High PSRR 98dB at 1kHz, 48dB at 100kHz
- Ultra Low Output Noise 10 μ VRMS
- Ultra Low Quiescent current 18 μ A
- Operating Input Voltage Range 1.9V to 5.5V
- Very Low Dropout 150mV at 450mA
- Available in CSP4 0.35P and XDFN4 0.65P package
- Available in industry standard TSOP5 package

アプリケーション

- A/D and D/A Converters Power supply
- Audio codec
- Battery Powered Equipment
- Camera module
- Precision Analog Circuits

利点

- Excellent for power sensitive device like Wi-Fi module
- Very well suited for noise sensitive application
- Improved efficiency during light load conditions
- Suitable for battery powered device
- Low power dissipation at full load
- Great for space constrains application
- Suitable for industrial applications

最終製品

- Cameras and camcoders
- Smartphones
- Tablets
- Wireless Routers

| 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 _{q Typ} (mA) | PSR R (dB) | Noise (μV _{rms}) | Enable | Power Good | Application | Package Type |
|------------------|-------------------|---|--------|--------|----------|--------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|------------|----------------------------|--------|------------|-------------|--------------|
| NCP161AFCS180T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.8 | 0.45 | 1.9 | 5.5 | 0.3 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCS250T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.5 | 0.45 | 1.9 | 5.5 | 0.19 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCS280T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.8 | 0.45 | 1.9 | 5.5 | 0.175 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCS285T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.85 | 0.45 | 1.9 | 5.5 | 0.17 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCS300T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.45 | 1.9 | 5.5 | 0.165 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCS320T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.2 | 0.45 | 1.9 | 5.5 | 0.155 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCS330T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.3 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCS350T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.5 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCS450T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 4.5 | 0.45 | 1.9 | 5.5 | 0.12 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCS500T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCS514T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5.14 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCT180T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.8 | 0.45 | 1.9 | 5.5 | 0.3 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCT185T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.85 | 0.45 | 1.9 | 5.5 | 0.3 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCT250T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.5 | 0.45 | 1.9 | 5.5 | 0.19 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCT280T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.8 | 0.45 | 1.9 | 5.5 | 0.175 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |
| NCP161AFCT285T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.85 | 0.45 | 1.9 | 5.5 | 0.17 | 0.018 | 98 | 10 | Yes | No | Consumer | WLCSP-4 |

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|-------------------|--------|---|--------|--------|----------|------|------|-----|-----|-------|-------|----|----|-----|----|----------|-------------|
| NCP161AFCT290T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.9 | 0.45 | 1.9 | 5.5 | 0.163 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161AFCT300T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.45 | 1.9 | 5.5 | 0.165 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161AFCT310T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.1 | 0.45 | 1.9 | 5.5 | 0.16 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161AFCT330T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.3 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161AFCT350T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.5 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161AFCT450T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 4.5 | 0.45 | 1.9 | 5.5 | 0.12 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161AFCT500T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161AFCT514T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5.14 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161AFCTC280T2G | | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.8 | 0.45 | 1.9 | 5.5 | 0.175 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161AFCTC350T2G | | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.5 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161AMX180TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.8 | 0.45 | 1.9 | 5.5 | 0.3 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161AMX185TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.85 | 0.45 | 1.9 | 5.5 | 0.3 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161AMX250TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.5 | 0.45 | 1.9 | 5.5 | 0.19 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161AMX280TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.8 | 0.45 | 1.9 | 5.5 | 0.175 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161AMX285TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.85 | 0.45 | 1.9 | 5.5 | 0.17 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161AMX300TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.45 | 1.9 | 5.5 | 0.165 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161AMX320TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.2 | 0.45 | 1.9 | 5.5 | 0.155 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |

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|------------------|--------|---|--------|--------|----------|------|------|-----|-----|-------|-------|----|----|-----|----|----------|--------------|
| NCP161AMX330TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.3 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161AMX350TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.5 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161AMX450TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 4.5 | 0.45 | 1.9 | 5.5 | 0.12 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161AMX500TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161AMX514TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5.14 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161ASN180T1G | 0.1133 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.8 | 0.45 | 1.9 | 5.5 | 0.3 | 0.018 | 98 | 10 | Yes | No | Consumer | SOT- 23-5 |
| NCP161ASN250T1G | 0.1133 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.5 | 0.45 | 1.9 | 5.5 | 0.19 | 0.018 | 98 | 10 | Yes | No | Consumer | SOT- 23-5 |
| NCP161ASN280T1G | 0.1133 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.8 | 0.45 | 1.9 | 5.5 | 0.175 | 0.018 | 98 | 10 | Yes | No | Consumer | SOT- 23-5 |
| NCP161ASN300T1G | 0.1133 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.45 | 1.9 | 5.5 | 0.165 | 0.018 | 98 | 10 | Yes | No | Consumer | SOT- 23-5 |
| NCP161ASN330T1G | 0.1133 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.3 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | SOT- 23-5 |
| NCP161ASN350T1G | 0.1133 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.5 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | SOT- 23-5 |
| NCP161ASN500T1G | 0.1133 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | SOT- 23-5 |
| NCP161BFCS180T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.8 | 0.45 | 1.9 | 5.5 | 0.3 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCS250T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.5 | 0.45 | 1.9 | 5.5 | 0.19 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCS280T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.8 | 0.45 | 1.9 | 5.5 | 0.175 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCS285T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.85 | 0.45 | 1.9 | 5.5 | 0.17 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCS300T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.45 | 1.9 | 5.5 | 0.165 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |

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|------------------|--------|---|--------|--------|----------|------|------|-----|-----|-------|-------|----|----|-----|----|----------|-------------|
| NCP161BFCS330T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.3 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCS350T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.5 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCS450T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 4.5 | 0.45 | 1.9 | 5.5 | 0.12 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCS500T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCS514T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5.14 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCT180T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.8 | 0.45 | 1.9 | 5.5 | 0.3 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCT185T2G | 0.0697 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.85 | 0.45 | 1.9 | 5.5 | 0.3 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCT250T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.5 | 0.45 | 1.9 | 5.5 | 0.19 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCT280T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.8 | 0.45 | 1.9 | 5.5 | 0.175 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCT285T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.85 | 0.45 | 1.9 | 5.5 | 0.17 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCT300T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.45 | 1.9 | 5.5 | 0.165 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCT330T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.3 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCT350T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.5 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCT450T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 4.5 | 0.45 | 1.9 | 5.5 | 0.12 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCT500T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BFCT514T2G | 0.0635 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5.14 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | WLC SP-4 |
| NCP161BMX180TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.8 | 0.45 | 1.9 | 5.5 | 0.3 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |

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|-----------------|--------|---|--------|--------|----------|------|------|-----|-----|-------|-------|----|----|-----|----|----------|------------|
| NCP161BMX250TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.5 | 0.45 | 1.9 | 5.5 | 0.19 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161BMX280TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.8 | 0.45 | 1.9 | 5.5 | 0.175 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161BMX285TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.85 | 0.45 | 1.9 | 5.5 | 0.17 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161BMX300TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.45 | 1.9 | 5.5 | 0.165 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161BMX330TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.3 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161BMX350TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.5 | 0.45 | 1.9 | 5.5 | 0.15 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161BMX450TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 4.5 | 0.45 | 1.9 | 5.5 | 0.12 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161BMX500TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |
| NCP161BMX514TBG | 0.0777 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 5.14 | 0.45 | 1.9 | 5.5 | 0.105 | 0.018 | 98 | 10 | Yes | No | Consumer | XDF N-4 |

詳細は、弊社 www.onsemi.jp の営業または販売代理店にお問い合わせください。

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