

製品概要

NCP170: LDO レギュレータ、150 mA、超低 Iq

技術情報は、データシートをご参照ください。

NCP170 シリーズの CMOS 低ドロップ・レギュレータは、超低静止電流が要求されるポータブルなバッテリー駆動のアプリケーションに特化して設計されています。標準 500 nA の超低消費でバッテリー寿命が長くなり、動的過渡ブースト機能により無線通信アプリケーションの過渡応答が向上します。小型 1 × 1 mm xDFN4、TSOP5、SOT-563 パッケージで提供されます。

特長

- Ultra Low Quiescent current 500nA
- Very Low Dropout, 170mV at 150mA
- Adaptive ground current proportional to load current
- Wide Input Voltage Range 2.2V to 5.5V
- Small packages 1x1 mm XDFN4, SOT-563 and TSOP-5
- Factory trimmed High output Voltage Accuracy +/- 1%

アプリケーション

- Long life Battery Powered applications
- Portable Communication Equipment
- Sensor Node for IoT
- Wearable devices
- Energy Harvesting

利点

- Improved battery life
- Low power dissipation at full load
- Improved battery life
- Suitable for battery powered applications
- Reduced area for space constraint applications
- Improved end product performance

最終製品

- NB-IoT Module
- Cameras
- Wireless Sensor nodes
- Smoke detectors
- Smart Watch

| 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 _{o Typ} (mA) | PSR R (dB) | Noise (μV _{rms}) | Enable | Power Good | Application | Package Type |
|-----------------|-------------------|---|--------|--------|----------|--------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|------------|----------------------------|--------|------------|-------------|--------------------|
| NCP170AMX120TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.2 | 0.15 | 2.2 | 5.5 | | 0.0005 | 57 | 85 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX135TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.35 | 0.15 | 2.2 | 5.5 | | 0.0005 | 57 | 85 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX150TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.5 | 0.15 | 2.2 | 5.5 | | 0.0005 | 57 | 90 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX180TBG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.8 | 0.15 | 2.2 | 5.5 | 0.35 | 0.0005 | 57 | 95 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX180TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.8 | 0.15 | 2.2 | 5.5 | 0.35 | 0.0005 | 57 | 95 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX250TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.5 | 0.15 | 2.2 | 5.5 | 0.24 | 0.0005 | 57 | 125 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX280TBG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.8 | 0.15 | 2.2 | 5.5 | 0.21 | 0.0005 | 40 | 125 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX280TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.8 | 0.15 | 2.2 | 5.5 | 0.21 | 0.0005 | 40 | 125 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX285TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.85 | 0.15 | 2.2 | 5.5 | 0.21 | 0.0005 | 40 | 125 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX300TBG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.15 | 2.2 | 5.5 | 0.19 | 0.0005 | 47 | 125 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX300TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.15 | 2.2 | 5.5 | 0.19 | 0.0005 | 47 | 120 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX330TBG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.3 | 0.15 | 2.2 | 5.5 | 0.18 | 0.0005 | 41 | 125 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX330TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.3 | 0.15 | 2.2 | 5.5 | 0.18 | 0.0005 | 41 | 125 | Yes | No | Consumer | XDF N-4 |
| NCP170AMX360TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.6 | 0.15 | 2.2 | 5.5 | 0.17 | 0.0005 | 38 | 130 | Yes | No | Consumer | XDF N-4 |
| NCP170ASN120T2G | 0.1433 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.2 | 0.15 | 2.2 | 5.5 | | 0.0005 | 57 | 85 | Yes | No | Consumer | TSO P-5 / SOT-23-5 |
| NCP170ASN150T2G | | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.5 | 0.15 | 2.2 | 5.5 | | 0.0005 | | | Yes | No | Consumer | TSO P-5 / SOT-23-5 |

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|-----------------|--------|---|--------|--------|----------|------|------|-----|-----|------|--------|----|-----|-----|----|----------|------------------------------|
| NCP170ASN180T2G | 0.1433 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.8 | 0.15 | 2.2 | 5.5 | 0.35 | 0.0005 | 57 | 95 | Yes | No | Consumer | TSO P-5 / SOT- 23-5 |
| NCP170ASN250T2G | 0.1433 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.5 | 0.15 | 2.2 | 5.5 | 0.24 | 0.0005 | 57 | 125 | Yes | No | Consumer | TSO P-5 / SOT- 23-5 |
| NCP170ASN280T2G | 0.1433 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.8 | 0.15 | 2.2 | 5.5 | 0.21 | 0.0005 | 40 | 125 | Yes | No | Consumer | TSO P-5 / SOT- 23-5 |
| NCP170ASN300T2G | 0.1433 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.15 | 2.2 | 5.5 | 0.19 | 0.0005 | 47 | 120 | Yes | No | Consumer | TSO P-5 / SOT- 23-5 |
| NCP170ASN330T2G | 0.1433 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.3 | 0.15 | 2.2 | 5.5 | 0.18 | 0.0005 | 41 | 125 | Yes | No | Consumer | TSO P-5 / SOT- 23-5 |
| NCP170AXV135T2G | 0.1459 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.35 | 0.15 | 2.2 | 5.5 | | 0.0005 | 57 | 85 | Yes | No | Consumer | SOT 563- 6 |
| NCP170AXV180T2G | 0.1459 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.8 | 0.15 | 2.2 | 5.5 | 0.35 | 0.0005 | 57 | 95 | Yes | No | Consumer | SOT 563- 6 |
| NCP170AXV190T2G | 0.1459 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.9 | 0.15 | 2.2 | 5.5 | 0.34 | 0.0005 | 57 | 95 | Yes | No | Consumer | SOT 563- 6 |
| NCP170AXV210T2G | 0.1459 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.1 | 0.15 | 2.2 | 5.5 | 0.27 | 0.0005 | 57 | 105 | Yes | No | Consumer | SOT 563- 6 |
| NCP170AXV300T2G | 0.1459 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.15 | 2.2 | 5.5 | 0.19 | 0.0005 | 47 | 120 | Yes | No | Consumer | SOT 563- 6 |
| NCP170AXV330T2G | 0.1459 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.3 | 0.15 | 2.2 | 5.5 | 0.18 | 0.0005 | 41 | 125 | Yes | No | Consumer | SOT 563- 6 |
| NCP170AXV360T2G | 0.1459 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.6 | 0.15 | 2.2 | 5.5 | 0.17 | 0.0005 | 30 | 130 | Yes | No | Consumer | SOT 563- 6 |
| NCP170BMX120TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.2 | 0.15 | 2.2 | 5.5 | | 0.0005 | 57 | 85 | Yes | No | Consumer | XDF N-4 |
| NCP170BMX135TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.35 | 0.15 | 2.2 | 5.5 | | 0.0005 | 57 | 57 | Yes | No | Consumer | XDF N-4 |
| NCP170BMX150TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.5 | 0.15 | 2.2 | 5.5 | | 0.0005 | 57 | 90 | Yes | No | Consumer | XDF N-4 |
| NCP170BMX180TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.8 | 0.15 | 2.2 | 5.5 | 0.35 | 0.0005 | 57 | 95 | Yes | No | Consumer | XDF N-4 |
| NCP170BMX190TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.9 | 0.15 | 2.2 | 5.5 | 0.34 | 0.0005 | 57 | 95 | Yes | No | Consumer | XDF N-4 |

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|-----------------|--------|---|--------|--------|----------|------|------|-----|-----|------|--------|----|-----|-----|----|----------|--------------|
| NCP170BMX250TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.5 | 0.15 | 2.2 | 5.5 | 0.24 | 0.0005 | 57 | 125 | Yes | No | Consumer | XDF N-4 |
| NCP170BMX280TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.8 | 0.15 | 2.2 | 5.5 | 0.21 | 0.0005 | 40 | 125 | Yes | No | Consumer | XDF N-4 |
| NCP170BMX285TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.85 | 0.15 | 2.2 | 5.5 | 0.21 | 0.0005 | 40 | 125 | Yes | No | Consumer | XDF N-4 |
| NCP170BMX300TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.15 | 2.2 | 5.5 | 0.19 | 0.0005 | 47 | 120 | Yes | No | Consumer | XDF N-4 |
| NCP170BMX310TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.1 | 0.15 | 2.2 | 5.5 | 0.19 | 0.0005 | 47 | 120 | Yes | No | Consumer | XDF N-4 |
| NCP170BMX330TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.3 | 0.15 | 2.2 | 5.5 | 0.18 | 0.0005 | 41 | 125 | Yes | No | Consumer | XDF N-4 |
| NCP170BMX360TCG | 0.1349 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3.6 | 0.15 | 2.2 | 5.5 | 0.17 | 0.0005 | 38 | 130 | Yes | No | Consumer | XDF N-4 |
| NCP170BXV120T2G | 0.1433 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.2 | 0.15 | 2.2 | 5.5 | | 0.0005 | 57 | 85 | Yes | No | Consumer | SOT 563-6 |
| NCP170BXV135T2G | 0.1433 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.35 | 0.15 | 2.2 | 5.5 | | 0.0005 | 57 | 85 | Yes | No | Consumer | SOT 563-6 |
| NCP170BXV150T2G | 0.1433 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 1.5 | 0.15 | 2.2 | 5.5 | | 0.0005 | 57 | 90 | Yes | No | Consumer | SOT 563-6 |
| NCP170BXV250T2G | 0.1433 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 2.5 | 0.15 | 2.2 | 5.5 | 0.24 | 0.0005 | 57 | 125 | Yes | No | Consumer | SOT 563-6 |
| NCP170BXV300T2G | 0.1433 | Pb-free Halide free non AEC-Q and PPAP | Active | Single | Positive | 3 | 0.15 | 2.2 | 5.5 | 0.19 | 0.0005 | 47 | 120 | Yes | No | Consumer | SOT 563-6 |

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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