

## 製品概要

### NCP700B: LDO Regulator, 200 mA, Ultra-Low Dropout, Ultra-High PSRR, Ultra-Low Noise

技術情報は、データシートをご参照ください。

Noise sensitive RF applications such as Power Amplifiers in cell phones and precision instrumentation require very clean power supplies. The NCP700B is a 200 mA low dropout (LDO) linear voltage regulator that provides the engineer with a very stable, accurate voltage with ultra low noise and very high Power Supply Rejection Ratio (PSRR) suitable for RF applications. In order to optimize performance for battery operated portable applications, the NCP700B employs an advanced BiCMOS process to combine the benefits of low noise and superior dynamic performance of bipolar elements with very low ground current consumption at full loads offered by CMOS. Furthermore, in order to provide a small footprint for space-conscious applications, the NCP700B is stable with small, low value capacitors and is available in a very small 1.5x1.5mm WDFN6 and TSOP-5 packages.

#### 特長

- Operating Input Voltage: 2.5V to 5.5V
- High Ripple Rejection Ratio: Typ. 82dB @ 1kHz
- Ultra-Low Output Noise: Typ. 10 $\mu$ V from 10Hz to 100kHz
- Stable with output capacitors as low as 1 $\mu$ F
- Active Discharge
- Output Voltage Options: 1.8V, 2.8V, 3.0V, 3.3V
- Low Sleep Mode Current: Max. 1 $\mu$ A
- Current Limit Protection
- Thermal Shutdown Protection
- These are Pb-Free Devices

For more features, see the data sheet

#### 利点

- Well suited for battery powered applications
- Effectively filters the supply line noise
- Very well suited for noise sensitive applications
- Small solution size
- Fast Turn-off

#### アプリケーション

- Power Supply for Camera Modules
- Audio/Video, RF Section Supply
- Noise Sensitive Applications

#### 最終製品

- Smartphones/PDAs/Palmtops/GPS
- Cellular Telephones
- Medical Equipment
- Battery Powered Devices

## 電氣的仕様

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)	PSR R (dB)	Noise (μV <sub>rms</sub> )	Enable	PowerGood	Package Type
NCP700BMT18TBG	0.2415	Pb-free Halide free	Active	Single	Positive	1.8	0.2	2.5	6		0.07	82	10	Yes	No	WDF N-6
NCP700BMT25TBG	0.2415	Pb-free Halide free	Active	Single	Positive	2.5	0.2	2.5	6	0.14	0.07	82	10	Yes	No	WDF N-6
NCP700BMT28TBG	0.2415	Pb-free Halide free	Active	Single	Positive	2.8	0.2	2.5	6	0.12	0.07	82	10	Yes	No	WDF N-6
NCP700BMT30TBG	0.2415	Pb-free Halide free	Active	Single	Positive	3	0.2	2.5	6	0.115	0.07	82	10	Yes	No	WDF N-6
NCP700BMT33TBG	0.2415	Pb-free Halide free	Active	Single	Positive	3.3	0.2	2.5	6	0.11	0.07	82	10	Yes	No	WDF N-6
NCP700BSN18T1G	0.2087	Pb-free Halide free	Active	Single	Positive	1.8	0.2	2.5	6		0.07	82	10	Yes	No	TSO P-5 / SOT-23-5
NCP700BSN25T1G	0.2087	Pb-free Halide free	Active	Single	Positive	2.5	0.2	2.5	6	0.14	0.07	82	10	Yes	No	TSO P-5 / SOT-23-5
NCP700BSN28T1G	0.2087	Pb-free Halide free	Active	Single	Positive	2.8	0.2	2.5	6	0.12	0.07	82	10	Yes	No	TSO P-5 / SOT-23-5
NCP700BSN30T1G	0.2087	Pb-free Halide free	Active	Single	Positive	3	0.2	2.5	6	0.115	0.07	82	10	Yes	No	TSO P-5 / SOT-23-5
NCP700BSN33T1G	0.2075	Pb-free Halide free	Active	Single	Positive	3.3	0.2	2.5	6	0.11	0.07	82	10	Yes	No	TSO P-5 / SOT-23-5

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