

## 製品概要

### NCP59800: LDO Regulator, 1 A, Low Dropout, Low Iq, Low Noise, with Enable

技術情報は、データシートをご参照ください。

The NCP59800 is a family of 1 A low-dropout linear regulators (LDOs) offering high power-supply ripple rejection (PSRR) and ultra-low output noise. This series of LDOs uses an advanced BiCMOS process to achieve very good electrical performance. It is an ideal choice for noise sensitive Analog RF Front-Ends used in Telecom Equipment. The NCP59800 is available in the 3 mm x 3 mm DFN8 package.

#### 特長

- 2.2 V to 6.0 V Operating Input Voltage Range
- Low Quiescent Current of Typ. 60  $\mu$ A
- Very Low Dropout: 200 mV Typ. at Iout = 1 A (Vout = 2.5 V)
- Very Low Noise, 15  $\mu$ Vrms/V typically
- Adjustable Soft-Start
- $\pm$ 2.5% Accuracy over the Line. Load and temperature range
- Thermal Shutdown and Current Limit Protections
- Stable with 4.7  $\mu$ F Ceramic Output Capacitor

#### アプリケーション

- Telecom Infrastructure
- Audio
- High-Speed I/F (PLL/VCO)

#### 利点

- Suitable for Li-ion battery or post regulation application
- Extended Battery Life
- Extended Battery Range
- Good for noise sensitive applications
- Limits the In-Rush Current
- High output voltage precision
- Protects product and system from damage
- Saves PCB space and system cost

#### 最終製品

- Telecom equipment
- Industrial Control
- Networking equipment

#### 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>Min</sub> (V)	V <sub>Max</sub> (V)	V <sub>DO</sub> Typ (V)	I <sub>q</sub> Typ (mA)	PSRR (dB)	Noise ( $\mu$ V <sub>rms</sub> )	Enable	PowerGood	Package Type
NCP59800BMNADJTAG		Pb-free Halide free	Active	Single	Positive	Adj	1	2.2	6	0.2	0.06	63	15	Yes	No	DFN-8
NCP59800BMNADJTBG	0.1933	Pb-free Halide free	Active	Single	Positive	Adj	1	2.2	6	0.2	0.06	63	15	Yes	No	DFN-8

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