

製品概要

NCP702: LDO Regulator, 200 mA, Ultra-Low Dropout, Ultra-Low Iq, 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 applications such as Phase Locked Loops, Oscillators, Frequency Synthesizers, Low Noise Amplifiers and other Precision Instrumentation require very clean power supplies. The NCP702 is a 200 mA LDO that provides the engineer with a very stable, accurate voltage with ultra-low noise and very high Power Supply Rejection Ratio (PSRR), making it suitable for RF applications. The device doesn't require an additional noise bypass capacitor to achieve ultra-low noise performance. In order to optimize performance for battery operated portable applications, the NCP702 employs an Adaptive Ground Current feature for ultra-low ground current consumption during light-load conditions.

特長

- Operating Input Voltage Range: 2.0V to 5.5V
 - Ultra-Low Output Noise: Typ. 11 μ Vrms from 100Hz to 100kHz
 - Ultra-Low No-Load Ground Current of Typ. 10 μ A
 - Adaptive Ground Current Feature
 - High Ripple Rejection Ratio: Typ. 70dB @ 1kHz
 - Stable with small 1 μ F ceramic output capacitor
 - Available Fixed Output Voltage Options: 0.8V to 3.5V
 - Output voltage trimming step: 2.5mV

 - Enable/Shutdown Pin Function
 - Ultra-Low Shutdown Mode Current: Max. 1 μ A
- For more features, see the data sheet

利点

- Well suited for battery powered applications
- Very well suited for noise sensitive applications

- Improved efficiency during light-load conditions
- Improved dynamic performance
- Effectively filters the supply line noise
- Small solution size
- Sub-bandgap output voltages available
- Output voltage can be trimmed precisely according to specific customer needs
- Allows to turn ON/OFF the Regulator using logic I/O signal
- Minimizes battery drain when placed in the Shutdown Mode

アプリケーション

- High-Frequency Precision Clock Supplies
- PLL, VCO, TCXO Power Supplies
- GPS Receiver Section Supply
- WLAN Transceiver Power
- Touchscreen Controller Supply

最終製品

- Smartphone
- Digital Camera
- Tablet
- Portable DVD/Media Player
- Wireless Headset

電氣的仕様

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	PowerGood	Package Type
NCP702MX18TCG	0.288	Pb-free Halide free	Active	Single	Positive	1.8	0.2	2	5.5	0.14	0.01	70	11	Yes	No	XDF N-6
NCP702MX28TCG	0.288	Pb-free Halide free	Active	Single	Positive	2.8	0.2	2	5.5	0.14	0.01	70	11	Yes	No	XDF N-6
NCP702MX30TCG	0.288	Pb-free Halide free	Active	Single	Positive	3	0.2	2	5.5	0.14	0.01	70	11	Yes	No	XDF N-6
NCP702MX33TCG	0.288	Pb-free Halide free	Active	Single	Positive	3.3	0.2	2	5.5	0.14	0.01	70	11	Yes	No	XDF N-6
NCP702SN18T1G	0.2773	Pb-free Halide free	Active	Single	Positive	1.8	0.2	2	5.5	0.14	0.01	70	11	Yes	No	TSO P-5 / SOT-23-5
NCP702SN28T1G	0.2773	Pb-free Halide free	Active	Single	Positive	2.8	0.2	2	5.5	0.14	0.01	70	11	Yes	No	TSO P-5 / SOT-23-5
NCP702SN30T1G	0.2773	Pb-free Halide free	Active	Single	Positive	3	0.2	2	5.5	0.14	0.01	70	11	Yes	No	TSO P-5 / SOT-23-5
NCP702SN31T1G	0.2773	Pb-free Halide free	Active	Single	Positive	3.1	0.2	2	5.5	0.14	0.01	70	11	Yes	No	TSO P-5 / SOT-23-5
NCP702SN33T1G	0.2773	Pb-free Halide free	Active	Single	Positive	3.3	0.2	2	5.5	0.14	0.01	70	11	Yes	No	TSO P-5 / SOT-23-5

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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