

NCP134

LDO Regulator, 500 mA, Ultra-Low Dropout, with Bias Rail

Product Overview

For complete documentation, see the data sheet.

NCP134 is a 500 mA LDO equipped with NMOS pass transistor and a separate bias supply voltage (VBIAS). The device provides very stable, accurate output voltage with low noise suitable for space constrained, noise sensitive applications. In order to optimize performance for battery operated portable applications, the NCP134 features low IQ consumption. The XDFN4 1.2 mm x 1.2 mm package is optimized for use in space constrained applications.

Similar Products:

NCP13x Series	NCP130	NCP133	NCP134	NCP135	NCP137	NCP139
Output Current (A)	0.3	0.5	0.5	0.5	0.7	1
PSRR f=1 kHz (dB)	70	70	70	73	60	60
Dropout Voltage (V)	0.060	0.090	0.090	0.053	0.060	0.060

Features

- Ultra-Low Dropout of Typ. 140mV
- Fixed Output Voltage options from 0.8V to 2.1V
- 140 mV typical dropout at the full 500 mA load.
- Guaranteed Output Current from 0mA to 500mA
- 0.5% Typical Output Voltage Accuracy
- Output Current in Excess of 500mA
- Output Active Discharge option available

Applications

- Battery - powered and Portable Equipment

Benefits

- Allows to save power and operates with very low Vin-Vout voltage.
- Excellent choice for low voltage Vcore applications
- minimizes the power loss across the regulator
- Very good choice for high current applications
- Perfect fit for POL applications

End Products

- Smartphones, Tablets
- Cameras, DVRs, Camcorders

Part Electrical Specifications

Product	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)	PSRR (dB)	Noise (μV _r , ms)	Enable	PowerGood	Application	Package Type
NCP134AMX105 TCG	0.1599		Active	Single	Positive	1.05	0.5	1.05	5.5	0.14	0.08	80	40	Yes	No	Consumer	XDFN-4
NCP134AMX110 TCG	0.1379		Active	Single	Positive	1.1	0.5	1.1	5.5	0.14	0.08	80	40	Yes	No	Consumer	XDFN-4
NCP134AMX120 TCG	0.1599		Active	Single	Positive	1.2	0.5	1.2	5.5	0.14	0.08	80	40	Yes	No	Consumer	XDFN-4
NCP134AMX135 TCG	0.1599		Active	Single	Positive	1.35	0.5	1.35	5.5	0.14	0.08	80	40	Yes	No	Consumer	XDFN-4
NCP134AMX180 TCG	0.1599		Active	Single	Positive	1.8	0.5	1.8	5.5	0.14	0.08	80	40	Yes	No	Consumer	XDFN-4