



Product Overview

NCP130: CMOS Linear Voltage Regulator with Bias Rail, 300 mA Very Low Dropout

For complete documentation, see the data sheet

Product Description

NCP130 is a 300 mA VLDO 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 NCP130 features low IQ consumption. The XDFN6 1.2 mm x 1.2 mm package is optimized for use in space constrained applications.

Features	Benefits
<ul style="list-style-type: none">• Ultra-Low Dropout of Typ. 75mV• Fixed Output Voltage options from 0.8V to 2.1V• 75 mV typical dropout at the full 300 mA load.• Guaranteed Output Current from 0mA to 300mA• 0.5% Typical Output Voltage Accuracy• Output Current in Excess of 300mA• Output Active Discharge option available	<ul style="list-style-type: none">• 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

Applications	End Products
<ul style="list-style-type: none">• Battery - powered and Portable Equipment	<ul style="list-style-type: none">• Smartphones, Tablets• Cameras, DVRs, Camcorders

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Max (V)	V _{DO} Typ (V)	I _q Typ (mA)	PSRR (dB)	Noise (μV _{rms})	Package Type
NCP130AMX080TCG	Pb-free Halide free	Active	Single	Positive	0.8	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130AMX105TCG	Pb-free Halide free	Active	Single	Positive	1.05	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130AMX110TCG	Pb-free Halide free	Active	Single	Positive	1.1	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130AMX115TCG	Pb-free Halide free	Active	Single	Positive	1.15	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130AMX120TCG	Pb-free Halide free	Active	Single	Positive	1.2	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130AMX150TCG	Pb-free Halide free	Active	Single	Positive	1.5	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130AMX180TCG	Pb-free Halide free	Active	Single	Positive	1.8	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130AMX210TCG	Pb-free Halide free	Active	Single	Positive	2.1	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130BMX080TCG	Pb-free Halide free	Active	Single	Positive	0.8	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130BMX105TCG	Pb-free Halide free	Active	Single	Positive	1.05	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130BMX110TCG	Pb-free Halide free	Active	Single	Positive	1.1	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130BMX115TCG	Pb-free Halide free	Active	Single	Positive	1.15	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130BMX120TCG	Pb-free Halide free	Active	Single	Positive	1.2	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130BMX150TCG	Pb-free Halide free	Active	Single	Positive	1.5	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130BMX180TCG	Pb-free Halide free	Active	Single	Positive	1.8	0.3	5.5	0.075	0.08	80	40	XDFN-6
NCP130BMX210TCG	Pb-free Halide free	Active	Single	Positive	2.1	0.3	5.5	0.075	0.08	80	40	XDFN-6

For more information please contact your local sales support at www.onsemi.com

Created on: 7/11/2015