

## Product Overview

### NCP137: LDO Regulator, 700 mA, Ultra-Low Dropout, with Bias Rail

For complete documentation, see the data sheet.

NCP137 is a 700 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 NCP137 features low IQ consumption. The WLCSP6 1.2 mm x 0.8 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. 40mV
- Adjustable Voltage version
- 40 mV typical dropout at the full 700 mA load.
- Guaranteed Output Current from 0mA to 700mA
- 0.5% Typical Output Voltage Accuracy
- Output Current in Excess of 700mA
- 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	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>g</sub> Typ (mA)	PSRR (dB)	Noise (μV <sub>rms</sub> )	Enable	Power Good	Package Type
NCP137AFCT045T2G	Pb-free Halide free	Product Preview	Single	Positive	0.45	0.7	0.45	5.5	0.04	0.035	75	40	Yes	No	WLCS P-6
NCP137AFCT105T2G	Pb-free Halide free	Active	Single	Positive	1.05	0.7	1.05	5.5	0.04	0.035	75	40	Yes	No	WLCS P-6
NCP137AFCT110T2G	Pb-free Halide free	Active	Single	Positive	1.1	0.7	1.1	5.5	0.04	0.035	75	40	Yes	No	WLCS P-6
NCP137AFCT120T2G	Pb-free Halide free	Active	Single	Positive	1.2	0.7	1.2	5.5	0.04	0.035	75	40	Yes	No	WLCS P-6
NCP137AFCTADJT2G	Pb-free Halide free	Active	Single	Positive	Adj	0.7	0.5	5.5	0.04	0.035	75	35	Yes	No	WLCS P-6
NCP137AFCTC110T2G	Pb-free Halide free	Active	Single	Positive	1.1	0.7	1.1	5.5	0.04	0.035	75	40	Yes	No	WLCS P-6
NCP137AFCTCADJT2G	Pb-free Halide free	Active	Single	Positive	Adj	0.7	0.5	5.5	0.04	0.035	75	35	Yes	No	WLCS P-6
NCP137BFCTADJT2G	Pb-free Halide free	Active	Single	Positive	Adj	0.7	0.5	5.5	0.04	0.035	75	35	Yes	No	WLCS P-6

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

Created on: 9/22/2019