

## Product Overview

### NCP3335A: LDO Regulator, 500 mA, Ultra-High Accuracy

For complete documentation, see the data sheet.

The NCP3335A is a high performance, Low Quiescent Current Low Dropout (LDO) Linear Voltage Regulator. With accuracy of  $\pm 0.9\%$  over line and load and ultra-low quiescent current and noise it encompasses all of the necessary features required by today's consumer electronics. This unique device is guaranteed to be stable without a minimum load current requirement and stable with any type of capacitor as small as  $1.0 \mu\text{F}$ . The NCP3335A LDO Linear Voltage Regulator also comes equipped with sense and noise reduction pins to increase the overall utility of the device. The NCP3335A offers reverse bias protection.

### Features

- High Accuracy Over Line and Load ( $\pm 0.9\%$  at  $25^\circ\text{C}$ )
- UltraLow Dropout Voltage at Full Load (260 mV typ.)
- No Minimum Output Current Required for Stability
- Low Noise (31 Vrms w/10 nF Cnr and 51 Vrms w/out Cnr)
- Low Shutdown Current ( $0.07 \mu\text{A}$ )
- Reverse Bias Protected
- 2.6 V to 12 V Supply Range
- Thermal Shutdown Protection
- Current Limitation
- Requires Only  $1.0 \mu\text{F}$  Output capacitance for Stability

For more features, see the data sheet

### Applications

- Cellular Phones
- Camcoders and Cameras
- Networking Systems, DSL/Cable Modems
- PCMCIA Card
- Cable SetTop Box

## Part Electrical Specifications

Product	Pricing (\$/Unit)	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>q</sub> Typ (mA)	PSR R (dB)	Noise (μV <sub>rms</sub> )	Enable	Power Good	Package Type
NCP3335ADM150R2G	0.5249	Pb-free Halide free	Active	Single	Positive	1.5	0.5	2.6	12	1.43	0.8	55	31	Yes	No	Micro 8™
NCP3335ADM180R2G	0.4533	Pb-free Halide free	Active	Single	Positive	1.8	0.5	2.6	12	1.13	0.8	55	31	Yes	No	Micro 8™
NCP3335ADM250R2G	0.4533	Pb-free Halide free	Active	Single	Positive	2.5	0.5	2.6	12	0.34	0.8	55	31	Yes	No	Micro 8™
NCP3335ADM280R2G	0.4533	Pb-free Halide free	Active	Single	Positive	2.8	0.5	2.6	12	0.34	0.8	55	31	Yes	No	Micro 8™
NCP3335ADM285R2G	0.4533	Pb-free Halide free	Active	Single	Positive	2.85	0.5	2.6	12	0.34	0.8	55	31	Yes	No	Micro 8™
NCP3335ADM300R2G	0.4533	Pb-free Halide free	Active	Single	Positive	3	0.5	2.6	12	0.34	0.8	55	31	Yes	No	Micro 8™
NCP3335ADM330R2G	0.4533	Pb-free Halide free	Active	Single	Positive	3.3	0.5	2.6	12	0.34	0.8	55	31	Yes	No	Micro 8™
NCP3335ADM500R2G	0.4533	Pb-free Halide free	Active	Single	Positive	5	0.5	2.6	12	0.34	0.8	55	31	Yes	No	Micro 8™
NCP3335ADMADJR2G	0.4533	Pb-free Halide free	Active	Single	Positive	Adj	0.5	2.6	12	0.34	0.8	55	31	Yes	No	Micro 8™
NCP3335AMN150R2G	0.48	Pb-free Halide free	Active	Single	Positive	1.5	0.5	2.6	12	1.43	0.8	55	31	Yes	No	DFN-10
NCP3335AMN180R2G	0.48	Pb-free Halide free	Active	Single	Positive	1.8	0.5	2.6	12	1.13	0.8	55	31	Yes	No	DFN-10
NCP3335AMN250R2G	0.48	Pb-free Halide free	Active	Single	Positive	2.5	0.5	2.6	12	0.34	0.8	55	31	Yes	No	DFN-10
NCP3335AMN280R2G	0.5052	Pb-free Halide free	Active	Single	Positive	2.8	0.5	2.6	12	0.34	0.8	55	31	Yes	No	DFN-10
NCP3335AMN285R2G	0.5052	Pb-free Halide free	Active	Single	Positive	2.85	0.5	2.6	12	0.34	0.8	55	31	Yes	No	DFN-10
NCP3335AMN300R2G	0.48	Pb-free Halide free	Active	Single	Positive	3	0.5	2.6	12	0.34	0.8	55	31	Yes	No	DFN-10
NCP3335AMN330R2G	0.48	Pb-free Halide free	Active	Single	Positive	3.3	0.5	2.6	12	0.34	0.8	55	31	Yes	No	DFN-10
NCP3335AMN500R2G	0.48	Pb-free Halide free	Active	Single	Positive	5	0.5	2.6	12	0.34	0.8	55	31	Yes	No	DFN-10
NCP3335AMNADJR2G	0.48	Pb-free Halide free	Active	Single	Positive	Adj	0.5	2.6	12	0.34	0.8	55	31	Yes	No	DFN-10

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

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