



Product Overview

NCP3335A: Linear Voltage Regulator, LDO, Ultra High Accuracy, Low Iq, 500 mA

[For complete documentation, see the data sheet](#)

Product Description

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 μF . 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 °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 μA)
- Reverse Bias Protected
- 2.6 V to 12 V Supply Range
- Thermal Shutdown Protection
- Current Limitation
- Requires Only 1.0 μF Output capacitance for Stability

Applications

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

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
NCP3335ADM150R2G	Pb-free Halide free	Active	Single	Positive	1.5	0.5	12	1.43	0.8	55	31	Micro8™
NCP3335ADM180R2G	Pb-free Halide free	Active	Single	Positive	1.8	0.5	12	1.13	0.8	55	31	Micro8™
NCP3335ADM250R2G	Pb-free Halide free	Active	Single	Positive	2.5	0.5	12	0.34	0.8	55	31	Micro8™
NCP3335ADM280R2G	Pb-free Halide free	Active	Single	Positive	2.8	0.5	12	0.34	0.8	55	31	Micro8™
NCP3335ADM285R2G	Pb-free Halide free	Active	Single	Positive	2.85	0.5	12	0.34	0.8	55	31	Micro8™
NCP3335ADM300R2G	Pb-free Halide free	Active	Single	Positive	3	0.5	12	0.34	0.8	55	31	Micro8™
NCP3335ADM330R2G	Pb-free Halide free	Active	Single	Positive	3.3	0.5	12	0.34	0.8	55	31	Micro8™
NCP3335ADM500R2G	Pb-free Halide free	Active	Single	Positive	5	0.5	12	0.34	0.8	55	31	Micro8™
NCP3335ADMADJR2G	Pb-free Halide free	Active	Single	Positive	Adjustable	0.5	12	0.34	0.8	55	31	Micro8™
NCP3335AMN150R2G	Pb-free Halide free	Active	Single	Positive	1.5	0.5	12	1.43	0.8	55	31	DFN-10
NCP3335AMN180R2G	Pb-free Halide free	Active	Single	Positive	1.8	0.5	12	1.13	0.8	55	31	DFN-10
NCP3335AMN250R2G	Pb-free Halide free	Active	Single	Positive	2.5	0.5	12	0.34	0.8	55	31	DFN-10
NCP3335AMN280R2G	Pb-free Halide free	Active	Single	Positive	2.8	0.5	12	0.34	0.8	55	31	DFN-10
NCP3335AMN285R2G	Pb-free Halide free	Active	Single	Positive	2.85	0.5	12	0.34	0.8	55	31	DFN-10
NCP3335AMN300R2G	Pb-free Halide free	Active	Single	Positive	3	0.5	12	0.34	0.8	55	31	DFN-10
NCP3335AMN330R2G	Pb-free Halide free	Active	Single	Positive	3.3	0.5	12	0.34	0.8	55	31	DFN-10
NCP3335AMN500R2G	Pb-free Halide free	Active	Single	Positive	5	0.5	12	0.34	0.8	55	31	DFN-10
NCP3335AMNADJR2G	Pb-free Halide free	Active	Single	Positive	Adjustable	0.5	12	0.34	0.8	55	31	DFN-10

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

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