

## Product Overview

### NCP4624: Linear Voltage Regulator, LDO, Wide Input Range, 150 mA

For complete documentation, see the data sheet

#### Product Description

The NCP4624 is a CMOS 150 mA LDO linear voltage regulator which features high input voltage range while maintaining low quiescent current 2  $\mu$ A typically. Several protection features like Current Limiting and Reverse Current Protection Circuit are fully integrated to create a versatile device suitable for the power source being in the standby-mode. A high maximum input voltage (11 V) and wide temperature range (-40°C to 85°C) makes the NCP4624 device with output capacitor as low as 0.1  $\mu$ F an ideal choice for industrial applications also a portable equipments powered by 2-cell Li-ion battery.

#### Features

- Output voltage range from 1.2 to 5.5 V in 0.1 V steps
- Wide input voltage range from 2.5 to 11 V
- Ultra low quiescent current of 2  $\mu$ A

#### Benefits

- Many voltage options for various applications
- Wide input voltage for variety of industrial and consumer products
- Very low quiescent current to extend battery life

#### Applications

- Home appliance, industrial equipment
- Car audio equipment, navigation systems
- Notebook adaptors, LCD TVs, Cordless phones, Private LAN systems
- Battery-Powered Portable communication equipments

#### Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V <sub>O</sub> (V)	I <sub>O</sub> Typ (A)	V <sub>I</sub> Max (V)	V <sub>DO</sub> Typ (V)	I <sub>q</sub> Typ (mA)	PSRR (dB)	Noise ( $\mu$ V <sub>rms</sub> )	Package Type
NCP4624DMU12TCG	Pb-free	Active	Single	Positive	1.2	0.15	12	1.68	0.002	27	150	UDFN-4
NCP4624DMU30TCG	Pb-free	Active	Single	Positive	3	0.15	12	0.61	0.002	27	150	UDFN-4
NCP4624DMU33TCG	Pb-free	Active	Single	Positive	3.3	0.15	12	0.61	0.002	27	150	UDFN-4
NCP4624DMU50TCG	Pb-free	Active	Single	Positive	5	0.15	12	0.39	0.002	27	150	UDFN-4
NCP4624DSN12T1G	Pb-free	Active	Single	Positive	1.2	0.15	12	1.68	0.002	27	150	SOT-23-5
NCP4624DSN18T1G	Pb-free	Active	Single	Positive	1.8	0.15	12	1.48	0.002	27	150	SOT-23-5
NCP4624DSN33T1G	Pb-free	Active	Single	Positive	3.3	0.15	12	0.61	0.002	27	150	SOT-23-5
NCP4624DSN50T1G	Pb-free	Active	Single	Positive	5	0.15	12	0.39	0.002	27	150	SOT-23-5
NCP4624DSQ12T1G	Pb-free	Active	Single	Positive	1.2	0.15	12	1.68	0.002	27	150	SC-88A-5 / SC-70-5 / SOT-323-5
NCP4624DSQ33T1G	Pb-free	Active	Single	Positive	3.3	0.15	12	0.61	0.002	27	150	SC-88A-5 / SC-70-5 / SOT-323-5

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

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