



Product Overview

NCP4620: Linear Voltage Regulator, LDO, Wide Voltage Input, 150 mA

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

Product Description

The NCP4620 is a 150mA CMOS Low Dropout Linear Voltage Regulator with an input voltage range of 1.4V to 10V and a 12V max input voltage. The device has excellent output accuracy at 1% with a low temperature coefficient of $\pm 80\text{ppm}/^\circ\text{C}$. Safety features of the device included fold-back protection and thermal shutdown. The device comes in both a standard output and an Auto Discharge output configuration and is available in fixed output voltages from 1.2V to 6.0V in 100mV steps. It is available in the popular SOT23 and SC-70-5 packages. For specific package, output voltage and discharge configurations, contact your local sales representative.

Features	Benefits
<ul style="list-style-type: none">• Operating Input voltage range 1.4V to 10V• Excellent PSRR of 70dB (typical)• Thermal shutdown at 165°C approx.• Stable with ceramic capacitors on input and output• Maximum Input voltage of 12V	<ul style="list-style-type: none">• Suitable for applications driven by a 2 cell Lithium battery• Filters out input noise• Protects device from damage due to overheating• Cost effective decoupling

Applications	End Products
<ul style="list-style-type: none">• Battery powered boards	<ul style="list-style-type: none">• Portable power tools

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Max (V)	V _{DO} Typ (V)	I _a Typ (mA)	PSRR (dB)	Noise (μV _{rms})	Package Type
NCP4620DSN15T1G	Pb-free Halide free	Active	Single	Positive	1.5	0.15	12	0.4	0.023	70	90	SOT-23-5
NCP4620DSN30T1G	Pb-free Halide free	Active	Single	Positive	3	0.15	12	0.4	0.023	70	90	SOT-23-5
NCP4620DSN33T1G	Pb-free Halide free	Active	Single	Positive	3.3	0.15	12	0.4	0.023	70	90	SOT-23-5
NCP4620DSN50T1G	Pb-free Halide free	Active	Single	Positive	5	0.15	12	0.4	0.023	70	90	SOT-23-5
NCP4620DSQ18T1G	Pb-free Halide free	Active	Single	Positive	1.8	0.15	12	0.4	0.023	70	90	SC-88A-5 / SC-70-5 / SOT-323-5
NCP4620HSN15T1G	Pb-free Halide free	Active	Single	Positive	1.5	0.15	12	0.4	0.023	70	90	SOT-23-5
NCP4620HSN33T1G	Pb-free Halide free	Active	Single	Positive	3.3	0.15	12	0.4	0.023	70	90	SOT-23-5
NCP4620HSN50T1G	Pb-free Halide free	Active	Single	Positive	5	0.15	12	0.4	0.023	70	90	SOT-23-5
NCP4620HSQ12T1G	Pb-free Halide free	Active	Single	Positive	1.2	0.15	12	0.4	0.023	70	90	SC-88A-5 / SC-70-5 / SOT-323-5
NCP4620HSQ15T1G	Pb-free Halide free	Active	Single	Positive	1.5	0.15	12	0.4	0.023	70	90	SC-88A-5 / SC-70-5 / SOT-323-5
NCP4620HSQ18T1G	Pb-free Halide free	Active	Single	Positive	1.8	0.15	12	0.4	0.023	70	90	SC-88A-5 / SC-70-5 / SOT-323-5
NCP4620HSQ25T1G	Pb-free Halide free	Active	Single	Positive	2.5	0.15	12	0.4	0.023	70	90	SC-88A-5 / SC-70-5 / SOT-323-5

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

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