



Product Overview

NCP4671: Linear Voltage Regulator, Ultra LDO, Dual Rail, 400 mA

For complete documentation, see the data sheet

Product Description

The NCP4671 is a CMOS Dual Supply Rail Linear Voltage Regulator designed to provide very low output voltages. The Dual Rail architecture, which separates the power for the LDO control circuitry (provided via the Vbias pin) from the main power path (Vin) offers ultra-low dropout performance, allowing the device to operate from input voltages down to 0.9 V and to generate a fixed high accuracy output voltage as low as 0.6 V. The NCP4671 offers excellent transient response with very low quiescent currents. The family is available in a variety of packages: SC-70, SOT23 and a small, ultra thin 1.2 x 1.2 x 0.4mm XDFN, and comes with a standard enable or an enable plus auto-discharge configuration. Contact your local sales representative for specific package, voltage and enable combinations.

Features

- Output Voltage Range: 0.6 to 1.5 V (available at 0.1 steps)
- Regulates input voltages as low as 0.9V
- Low Quiescent Current: 28 uA typical
- Very Low Dropout: 180 mV Typ. at 400 mA
- High PSRR: 80 dB at 1 kHz

Benefits

- Capable of driving very low power microprocessors and microcontrollers
- Maximizes the useful life of batteries
- Excellent rejection of noise from the input rail (example from a DC-DC converter)

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
NCP4671DMX06TCG	Pb-free	Active	Single	Positive	0.6	0.4	6	0.18	0.028	80	70	XDFN-6
NCP4671DMX09TCG	Pb-free	Active	Single	Positive	0.9	0.4	6	0.18	0.028	80	70	XDFN-6
NCP4671DMX12TCG	Pb-free	Active	Single	Positive	1.2	0.4	6	0.18	0.028	80	70	XDFN-6
NCP4671DMX13TCG	Pb-free	Active	Single	Positive	1.3	0.4	6	0.18	0.028	80	70	XDFN-6
NCP4671DMX15TCG	Pb-free	Active	Single	Positive	1.5	0.4	6	0.18	0.028	80	70	XDFN-6
NCP4671DSN06T1G	Pb-free Halide free	Active	Single	Positive	0.6	0.4	6	0.18	0.028	80	70	SOT-23-5
NCP4671DSN09T1G	Pb-free Halide free	Active	Single	Positive	0.9	0.4	6	0.18	0.028	80	70	SOT-23-5
NCP4671DSN10T1G	Pb-free Halide free	Active	Single	Positive	1	0.4	6	0.18	0.028	80	70	SOT-23-5
NCP4671DSN12T1G	Pb-free Halide free	Active	Single	Positive	1.2	0.4	6	0.18	0.028	80	70	SOT-23-5
NCP4671DSN13T1G	Pb-free Halide free	Active	Single	Positive	1.3	0.4	6	0.18	0.028	80	70	SOT-23-5
NCP4671DSN15T1G	Pb-free Halide free	Active	Single	Positive	1.5	0.4	6	0.18	0.028	80	70	SOT-23-5

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

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