

Product Overview

NCP571: LDO Regulator, 150 mA, Ultra-Low Iq, Low Output

For complete documentation, see the data sheet.

The NCP571 fixed low dropout (LDO) linear voltage regulator is designed for applications requiring voltage rails of 1.2 V or less. This LDO is ideal for handheld communication equipment and portable battery powered applications, which require low quiescent current as the NCP571 series features an ultra low quiescent current of 4.0 uA. The device incorporates both current limit and over temperature protection circuits. The NCP571 has been designed to be used with low cost ceramic capacitors and requires a minimum output capacitor of 0.1 uF. The device is housed in either a TSOP 5 or 2x2.2mm DFN package. Standard voltage versions are 0.8 V, 0.9V, 1.0 V, and 1.2 V. Other voltage options may be available on demand.

Features

- Low Quiescent Current of 4.0 uA (typ)
- Maximum Operating Voltage of 12 V
- Low Output Voltage Option down to 0.8 V

Applications

- Battery Powered Instruments
- Applications requiring voltages rails below 1.2V

Benefits

- Suitable for low power applications and battery powered products.
- Robust technology making the device suitable for a wide variety of applications.
- Can provide sub 1.2V rails for low voltage processors and applications.

End Products

- Camcorders, Cameras, GPS devices

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Min (V)	V _I Max (V)	V _{DO} Typ (V)	I _Q Typ (mA)	PSRR (dB)	Noise (μV _{rms})	Enable	Power Good	Package Type
NCP571MN08TBG	Pb-free	Active	Single	Positive	0.8	0.15	1.7	12	0.73	0.004			Yes	No	DFN-6
	Halide free														
NCP571MN09TBG	Pb-free	Active	Single	Positive	0.9	0.15	1.7	12	0.65	0.004			Yes	No	DFN-6
	Halide free														
NCP571MN10TBG	Pb-free	Active	Single	Positive	1	0.15	1.7	12	0.55	0.004			Yes	No	DFN-6
	Halide free														
NCP571MN12TBG	Pb-free	Active	Single	Positive	1.2	0.15	1.7	12	0.35	0.004			Yes	No	DFN-6
	Halide free														
NCP571SN08T1G	Pb-free	Active	Single	Positive	0.8	0.15	1.7	12	0.73	0.004			Yes	No	TSOP-5 / SOT-23-5
	Halide free														
NCP571SN09T1G	Pb-free	Active	Single	Positive	0.9	0.15	1.7	12	0.65	0.004			Yes	No	TSOP-5 / SOT-23-5
	Halide free														
NCP571SN10T1G	Pb-free	Active	Single	Positive	1	0.15	1.7	12	0.55	0.004			Yes	No	TSOP-5 / SOT-23-5
	Halide free														
NCP571SN12T1G	Pb-free	Active	Single	Positive	1.2	0.15	1.7	12	0.35	0.004			Yes	No	TSOP-5 / SOT-23-5
	Halide free														
NCV571MN08TBG	AEC Qualified	Active	Single	Positive	0.8	0.15	1.7	12	0.73	0.004			Yes	No	DFN-6
	PPAP Capable														
	Pb-free														
	Halide free														
NCV571MN09TBG	AEC Qualified	Active	Single	Positive	0.9	0.15	1.7	12	0.65	0.004			Yes	No	DFN-6
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	Pb-free												
	Halide free												

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

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