

製品概要

NCP114: LDO Regulator, 300 mA, High PSRR

技術情報は、データシートをご参照ください。

The NCP114 is 300 mA LDO that provides the engineer with a very stable, accurate voltage with low noise suitable for space constrained, noise sensitive applications. In order to optimize performance for battery operated portable applications, the NCP114 employs the dynamic quiescent current adjustment for very low IQ consumption at no-load.

特長

- Operating Input Voltage Range: 1.7 V to 5.5 V
- Low Dropout: 135 mV Typical at 300 mA
- High PSRR 75dB at 1kHz
- Thermal Shutdown and Current Limit Protections
- Very Low Quiescent Current of Typ. 50 μ A
- Available in uDFN 1.0 x 1.0 mm Package
- +/- 1% typical Vout Accuracy

アプリケーション

- Touchscreen Controller Supply
- Wireless module
- Camera supply module
- MCU and low power FPGA supply

利点

- Well suited for battery powered applications
- Supports applications with very low Input to Output Voltage requirements
- Very well suited for space-constrained applications
- Robust design and high reliability
- Highly effective solution at light load conditions
- Very well suited for space-constrained applications
- Precise Vout for power sensitive devices

最終製品

- Smartphone
- Tablet
- Portable device
- Wireless handset
- IP Camera

製品	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _{Min} (V)	V _{Max} (V)	V _{DO Typ} (V)	I _q Typ (mA)	PSR R (dB)	Noise (μV _{rms})	Enable	PowerGood	Package Type
NCP114AMX075TCG	0.0387	Pb-free Halide free	Active	Single	Positive	0.75	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX080TCG	0.0387	Pb-free Halide free	Active	Single	Positive	0.8	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX090TAG	0.0387	Pb-free Halide free	NEW	Single	Positive	0.9	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX090TCG	0.0387	Pb-free Halide free	Active	Single	Positive	0.9	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX100TCG	0.0387	Pb-free Halide free	Active	Single	Positive	1	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX105TCG	0.0387	Pb-free Halide free	Active	Single	Positive	1.05	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX110TBG	0.0387	Pb-free Halide free	Active	Single	Positive	1.1	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX110TCG	0.0387	Pb-free Halide free	Active	Single	Positive	1.1	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX115TCG	0.0387	Pb-free Halide free	Active	Single	Positive	1.15	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX120TBG	0.0387	Pb-free Halide free	Active	Single	Positive	1.2	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX120TCG	0.0387	Pb-free Halide free	Active	single	Positive	1.2	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX125TCG	0.0387	Pb-free Halide free	Active	Single	Positive	1.25	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX130TCG	0.0387	Pb-free Halide free	Active	Single	Positive	1.3	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX135TCG	0.0387	Pb-free Halide free	Active	Single	Positive	1.35	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114AMX150TCG	0.0387	Pb-free Halide free	Active	Single	Positive	1.5	0.3	1.7	5.5	0.365	0.05	75	70	Yes	No	UDF N-4
NCP114AMX160TCG	0.0387	Pb-free Halide free	Active	Single	Positive	1.6	0.3	1.7	5.5	0.285	0.05	75	70	Yes	No	UDF N-4
NCP114AMX180TBG	0.0387	Pb-free Halide free	Active	Single	Positive	1.8	0.3	1.7	5.5	0.245	0.05	75	70	Yes	No	UDF N-4
NCP114AMX180TCG	0.0433	Pb-free Halide free	Active	Single	Positive	1.8	0.3	1.7	5.5	0.245	0.05	75	70	Yes	No	UDF N-4
NCP114AMX185TCG	0.0387	Pb-free Halide free	Active	Single	Positive	1.85	0.3	1.7	5.5	0.245	0.05	75	70	Yes	No	UDF N-4
NCP114AMX210TCG	0.0387	Pb-free Halide free	Active	Single	Positive	2.1	0.3	1.7	5.5	0.19	0.05	75	70	Yes	No	UDF N-4
NCP114AMX220TCG	0.0387	Pb-free Halide free	Active	Single	Positive	2.2	0.3	1.7	5.5	0.185	0.05	75	70	Yes	No	UDF N-4
NCP114AMX240TCG	0.0387	Pb-free Halide free	Active	Single	Positive	2.4	0.3	1.7	5.5	0.165	0.05	75	70	Yes	No	UDF N-4
NCP114AMX250TBG	0.0387	Pb-free Halide free	Active	Single	Positive	2.5	0.3	1.7	5.5	0.16	0.05	75	70	Yes	No	UDF N-4
NCP114AMX250TCG	0.0387	Pb-free Halide free	Active	Single	Positive	2.5	0.3	1.7	5.5	0.16	0.05	75	70	Yes	No	UDF N-4
NCP114AMX260TCG	0.0387	Pb-free Halide free	Active	Single	Positive	2.6	0.3	1.7	5.5	0.155	0.05	75	70	Yes	No	UDF N-4
NCP114AMX270TCG	0.0387	Pb-free Halide free	Active	Single	Positive	2.7	0.3	1.7	5.5	0.155	0.05	75	70	Yes	No	UDF N-4

NCP114AMX280TBG	0.0387	Pb-free Halide free	Active	Single	Positive	2.8	0.3	1.7	5.5	0.155	0.05	75	70	Yes	No	UDF N-4
NCP114AMX280TCG	0.0387	Pb-free Halide free	Active	single	Positive	2.8	0.3	1.7	5.5	0.155	0.05	75	70	Yes	No	UDF N-4
NCP114AMX285TCG	0.0387	Pb-free Halide free	Active	Single	Positive	2.85	0.3	1.7	5.5	0.155	0.05	75	70	Yes	No	UDF N-4
NCP114AMX290TCG	0.0387	Pb-free Halide free	Active													UDF N-4
NCP114AMX300TCG	0.0387	Pb-free Halide free	Active	Single	Positive	3	0.3	1.7	5.5	0.145	0.05	75	70	Yes	No	UDF N-4
NCP114AMX310TBG	0.0387	Pb-free Halide free	Active	Single	Positive	3.1	0.3	1.7	5.5	0.14	0.05	75	70	Yes	No	UDF N-4
NCP114AMX310TCG	0.0387	Pb-free Halide free	Active	Single	Positive	3.1	0.3	1.7	5.5	0.14	0.05	75	70	Yes	No	UDF N-4
NCP114AMX320TCG	0.0387	Pb-free Halide free	Active	Single	Positive	3.2	0.3	1.7	5.5	0.135	0.05	75	70	Yes	No	UDF N-4
NCP114AMX330TBG	0.0407	Pb-free Halide free	Active	Single	Positive	3.3	0.3	1.7	5.5	0.135	0.05	75	70	Yes	No	UDF N-4
NCP114AMX330TCG	0.0396	Pb-free Halide free	Active	Single	Positive	3.3	0.3	1.7	5.5	0.135	0.05	75	70	Yes	No	UDF N-4
NCP114AMX345TCG	0.0387	Pb-free Halide free	Active	Single	Positive	3.45	0.3	1.7	5.5	0.13	0.05	75	70	Yes	No	UDF N-4
NCP114AMX350TCG	0.0387	Pb-free Halide free	Active	Single	Positive	3.5	0.3	1.7	5.5	0.13	0.05	75	70	Yes	No	UDF N-4
NCP114AMX360TCG	0.0387	Pb-free Halide free	Active	Single	Positive	3.6	0.3	1.7	5.5	0.13	0.05	75	70	Yes	No	UDF N-4
NCP114ASN080T1G	0.048	Pb-free Halide free	Active	Single	Positive	0.8	0.3	1.7	5.5		0.05	75	70	Yes	No	TSO P-5 / SOT- 23-5
NCP114ASN120T1G	0.048	Pb-free Halide free	Active	Single	Positive	1.2	0.3	1.7	5.5		0.05	75	70	Yes	No	TSO P-5 / SOT- 23-5
NCP114ASN120T2G	0.0933	Pb-free Halide free	Active	Single	Positive	1.2	0.3	1.7	5.5		0.05	75	70	Yes	No	TSO P-5 / SOT- 23-5
NCP114ASN150T1G	0.048	Pb-free Halide free	Active	Single	Positive	1.5	0.3	1.7	5.5	0.38	0.05	75	70	Yes	No	TSO P-5 / SOT- 23-5
NCP114ASN150T2G	0.0933	Pb-free Halide free	Active	Single	Positive	1.5	0.3	1.7	5.5	0.38	0.05	75	70	Yes	No	TSO P-5 / SOT- 23-5
NCP114ASN180T1G	0.0448	Pb-free Halide free	Active	Single	Positive	1.8	0.3	1.7	5.5	0.26	0.05	75	70	Yes	No	TSO P-5 / SOT- 23-5
NCP114ASN180T2G	0.0933	Pb-free Halide free	Active	Single	Positive	1.8	0.3	1.7	5.5	0.26	0.05	75	70	Yes	No	TSO P-5 / SOT- 23-5
NCP114ASN250T1G	0.048	Pb-free Halide free	Active	Single	Positive	2.5	0.3	1.7	5.5	0.17	0.05	75	70	Yes	No	TSO P-5 / SOT- 23-5
NCP114ASN250T2G	0.0933	Pb-free Halide free	Active	Single	Positive	2.5	0.3	1.7	5.5	0.17	0.05	75	70	Yes	No	TSO P-5 / SOT- 23-5
NCP114ASN260T1G	0.048	Pb-free Halide free	Active	Single	Positive	2.6	0.3	1.7	5.5	0.17	0.05	75	70	Yes	No	TSO P-5 / SOT- 23-5
NCP114ASN270T1G	0.048	Pb-free Halide free	Active	Single	Positive	2.7	0.3	1.7	5.5	0.17	0.05	75	70	Yes	No	TSO P-5 / SOT- 23-5
NCP114ASN280T1G	0.0533	Pb-free Halide free	Active	Single	Positive	2.8	0.3	1.7	5.5	0.17	0.05	75	70	Yes	No	TSO P-5 / SOT- 23-5

NCP114ASN280T2G	0.0933	Pb-free Halide free	Active	Single	Positive	2.8	0.3	1.7	5.5	0.17	0.05	75	70	Yes	No	TSO P-5/ SOT- 23-5
NCP114ASN290T1G	0.048	Pb-free Halide free	Active	Single	Positive	2.9	0.3	1.7	5.5	0.17	0.05	75	70	Yes	No	TSO P-5/ SOT- 23-5
NCP114ASN300T1G	0.048	Pb-free Halide free	Active	Single	Positive	3	0.3	1.7	5.5	0.16	0.05	75	70	Yes	No	TSO P-5/ SOT- 23-5
NCP114ASN330T1G	0.0455	Pb-free Halide free	Active	Single	Positive	3.3	0.3	1.7	5.5	0.15	0.05	75	70	Yes	No	TSO P-5/ SOT- 23-5
NCP114ASN330T2G	0.0933	Pb-free Halide free	Active	Single	Positive	3.3	0.3	1.7	5.5	0.15	0.05	75	70	Yes	No	TSO P-5/ SOT- 23-5
NCP114BMX075TCG	0.0387	Pb-free Halide free	Active	Single	Positive	0.75	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114BMX100TCG	0.0439	Pb-free Halide free	Active	Single	Positive	1	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114BMX120TCG	0.0439	Pb-free Halide free	Active	Single	Positive	1.2	0.3	1.7	5.5		0.05	75	70	Yes	No	UDF N-4
NCP114BMX150TCG	0.0439	Pb-free Halide free	Active	Single	Positive	1.5	0.3	1.7	5.5	0.365	0.05	75	70	Yes	No	UDF N-4
NCP114BMX180TCG	0.0387	Pb-free Halide free	Active	Single	Positive	1.8	0.3	1.7	5.5	0.245	0.05	75	70	Yes	No	UDF N-4
NCP114BMX250TCG	0.0387	Pb-free Halide free	Active	Single	Positive	2.5	0.3	1.7	5.5	0.16	0.05	75	70	Yes	No	UDF N-4
NCP114BMX280TCG	0.0387	Pb-free Halide free	Active	Single	Positive	2.8	0.3	1.7	5.5	0.155	0.05	75	70	Yes	No	UDF N-4
NCP114BMX300TCG	0.0439	Pb-free Halide free	Active	Single	Positive	3	0.3	1.7	5.5	0.145	0.05	75	70	Yes	No	UDF N-4
NCP114BMX330TCG	0.0387	Pb-free Halide free	Active	Single	Positive	3.3	0.3	1.7	5.5	0.135	0.05	75	70	Yes	No	UDF N-4
NCP114BSN330T1G	0.048	Pb-free Halide free	Active	Single	Positive	3.3	0.3	1.7	5.5	0.15	0.05	75	70	Yes	No	TSO P-5/ SOT- 23-5

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1/19/2020 作成