

## 製品概要

### NCV1117: リニア電圧レギュレータ、1 A、高 PSRR

技術情報は、データシートをご参照ください。

NCP1117シリーズは低ドロップアウト (LDO) リニア正電圧レギュレータで、最大ドロップアウト電圧1.2 Vで800 mA温度過昇時に、1.0 Aを超える出力電流が提供できます。固定出力電圧は8つ、1.5 V、1.8 V、2.0 V、2.5 V、2.85 V、3.3 V、5.0 V、12 Vで、レギュレーションを維持するための最低負荷要件はありません。出力が調整可能なバージョンもあります。外付け抵抗2つで1.25 V ~ 18.8 Vにプログラムできます。オンチップ・トリミングで、リファレンス/出力電圧を $\pm 1.0\%$ 以内と正確に調整します。内部保護機能には、出力電流制限、安全動作領域補償、サーマル・シャットダウンがあります。NCP1117シリーズは最大20 Vの入力で動作します。SOT223およびDPAKパッケージで提供されます。

## 特長

- Output Current in Excess of 1.0 A
- 1.2 V Maximum Dropout Voltage at 800 mA Over Temperature
- Fixed Output Voltages of 1.5 V, 1.8 V, 2.0 V, 2.5 V, 2.85 V, 3.3 V, 5.0 V, and 12 V
- Adjustable Output Voltage Option
- No Minimum Load Requirement for Fixed Voltage Output Devices
- Reference/Output Voltage Trimmed to  $\pm 1.0\%$
- Current Limit, Safe Operating and Thermal Shutdown Protection
- Operation to 20 V Input
- Pb-Free Packages are Available

## アプリケーション

- Consumer and Industrial Equipment Point of Regulation
- Active SCSI Termination for 2.85 V Version
- Switching Power Supply Post Regulation
- Hard Drive Controllers
- Battery Chargers



製品	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V <sub>O</sub> (V)	I <sub>O Typ</sub> (A)	V <sub>I Min</sub> (V)	V <sub>I Max</sub> (V)	V <sub>DO Typ</sub> (V)	I <sub>Q Typ</sub> (mA)	PSR R (dB)	Noise (μV <sub>rms</sub> )	Enable	Power Good	Application	Package Type
NCV1117DT12RKG	0.3456	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	12	1	2.4	20	1.07	6	54	360	No	No	Automotive	DPA K-3
NCV1117DT15RKG	0.3456	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.5	1	2.4	20	1.07	3.6	72	45	No	No	Automotive	DPA K-3
NCV1117DT18RKG	0.3456	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.8	1	2.4	20	1.07	4.2	70	54	No	No	Automotive	DPA K-3
NCV1117DT18T5G	0.3456	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.8	1	2.4	20	1.07	4.2	70	54	No	No	Automotive	DPA K-3
NCV1117DT20RKG	0.2667	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2	1	2.4	20	1.07	4.5	70	60	No	No	Automotive	DPA K-3
NCV1117DT25RKG	0.3456	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2.5	1	2.4	20	1.07	5.2	68	75	No	No	Automotive	DPA K-3
NCV1117DT33T4G	0.3456	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	1	2.4	20	1.07	6	64	99	No	No	Automotive	DPA K-3
NCV1117DT33T5G	0.3745	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	1	2.4	20	1.07	6	64	99	No	No	Automotive	DPA K-3
NCV1117DT50RKG	0.3445	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	1	2.4	20	1.07	6	61	150	No	No	Automotive	DPA K-3
NCV1117DTARKG	0.3265	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Adj	1	2.4	20	1.07		73		No	No	Automotive	DPA K-3
NCV1117ST12T3G	0.3112	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	12	1	2.4	20	1.07	6	54	360	No	No	Automotive	SOT-223-4 / TO-261-4

NCV1117ST15T3G	0.2533	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.5	1	2.4	20	1.07	3.6	72	45	No	No	Automotive	SOT-223-4 / TO-261-4
NCV1117ST18T3G	0.3303	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.8	1	2.4	20	1.07	4.2	70	54	No	No	Automotive	SOT-223-4 / TO-261-4
NCV1117ST20T3G	0.3381	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2	1	2.4	20	1.07	4.5	70	60	No	No	Automotive	SOT-223-4 / TO-261-4
NCV1117ST25T3G	0.3112	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2.5	1	2.4	20	1.07	5.2	68	75	No	No	Automotive	SOT-223-4 / TO-261-4
NCV1117ST33T3G	0.22	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	1	2.4	20	1.07	6	64	99	No	No	Automotive	SOT-223-4 / TO-261-4
NCV1117ST50T3G	0.3183	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	1	2.4	20	1.07	6	61	150	No	No	Automotive	SOT-223-4 / TO-261-4D
NCV1117STAT3G	0.3481	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Adj	1	2.4	20	1.07		73		No	No	Automotive	SOT-223-4 / TO-261-4

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