



Linear Voltage Regulator Selector Guide

Single Output Low-Dropout Linear Regulators (LDOs)

Device	I _{out} (mA)	Dropout* (Typ, mV)	I _q ** (Typ, µA)	PSRR**** (dB)	Max Input Voltage (V)	Package(s)	V _{out}	Features
NCP508	50	140	300	70	13	SC-70-5, WDFN-6	1.5, 1.8, 2.5, 2.8, 3, 3.3 V	Low noise, fast turn-on
MC33761	80	160	180	85	12	SOT-23-5	2.5, 2.8, 2.9, 3, 5 V	Enable, Ultra low noise, Ultra High PSRR
MC78LCxx	80	1 V	1.1	--	12	SOT-23-5, SOT-89-3	1.5, 1.8, 2.5, 2.7, 2.8, 3, 3.3, 4, 5 V	Ultra low I _q
NCP502	80	850	40	55	12	SC-70-5, SOT-23-5	1.5, 1.8, 2.5, 2.7, 2.8, 2.9, 3, 3.1, 3.3, 3.4, 3.5, 3.6, 3.7, 5 V	Enable
NCP512	80	160	40	60	6	SC-70-5	1.3, 1.5, 1.8, 2.2, 2.5, 2.7, 2.8, 3, 3.1, 3.3, 5 V	Enable
NCP553	80	650	2.8	25	12	SC-82AB-4	1.5, 1.8, 2.5, 2.7, 2.8, 3, 3.3, 5 V	Ultra low I _q , No cap
NCP562	80	190	2.5	25	6	SC-82AB-4	1.5, 1.8, 2.1, 2.5, 2.7, 2.8, 3, 3.3, 3.5, 5 V	Enable, Ultra low I _q
NCP563	80	190	2.5	25	6	SC-82AB-4	1.5, 1.8, 2.5, 2.7, 2.8, 3, 3.3, 5 V	Ultra low I _q
LM2931A/C/AC	100	160	400 (@ 10 mA)	90	40	SO-8, TO-92-3, TO-220-3/5, DPAK-3, D2PAK-3/5	Adj, 5 V	Ultra High PSRR
LP2950C/AC	100	350	75	47 (@ 0.1 mA, 5 V)	30	DPAK-3, TO-92-3	3, 3.3, 5 V	Tight line & load Reg.
LP2951C/AC	100	350	75	47 (@ 0.1 mA, 5 V)	30	SO-8, Micro8™, DIP-8	Adj, 3, 3.3, 5 V	Enable, Error output
L4949	100	300	150	--	28	SO-8, DIP-8	5 V	Reset, Input Vol. Sense
NCP612	100	200	40	60	6	SC-70-5	1.5, 1.8, 2.5, 2.7, 2.8, 3, 3.1, 3.3, 3.7, 5 V	Enable
NCP662	100	230	2.5	25	6	SC-82AB-4	1.5, 1.8, 2.5, 2.7, 2.8, 3, 3.3, 5 V	Enable, Ultra low I _q
NCP663	100	230	2.5	25	6	SC-82AB-4	1.5, 1.8, 2.5, 2.7, 2.8, 3, 3.3, 5 V	Ultra low I _q
MC78FC	120	500 (@ 40 mA)	1.1	20	10	SOT-89-3	3, 3.3, 4, 5 V	Ultra low I _q
CAT6217	150	90	55	64	6.5	TSOT-23-5	1.5, 1.8, 2.5, 2.8, 2.85, 3.3 V	Fast turn-on, bypass option for lower noise
MC78PC	150	200 (@ 100 mA)	35	70	9	SOT-23-5	1.8, 2.5, 2.8, 3, 3.3, 5 V	Enable, Ultra low noise
NCP400	150	160 (@ 100 mA)	37	50	5.5	Flip-Chip-6	1.8 V	Enable, Reset
NCP500	150	150	175	62	6	SOT-23-5, DFN-6	1.8, 1.85, 2.5, 2.6, 2.7, 2.8, 3, 3.3, 5 V	Enable, Fast transient
NCP511	150	90 (@ 100 mA)	40	60	6	SOT-23-5	1.5, 1.8, 2.5, 2.7, 2.8, 3, 3.3, 5 V	Enable
NCP551	150	40 (@ 10 mA)	4	25	12	SOT-23-5	1.5, 1.8, 2.5, 2.7, 2.8, 2.9, 3, 3.1, 3.2, 3.3, 5 V	Enable, Ultra low I _q
NCP561	150	130	4	20	6	SOT-23-5	1.5, 1.8, 2.5, 2.7, 2.8, 3, 3.3, 5 V	Ultra low I _q
NCP571	150	350 (@ 1.2V)	4	--	12	TSOP-5, DFN-6	0.8, 0.9, 1, 1.2 V	Ultra low I _q
NCP623	150	180	170	90	12	Micro8, DFN-6	2.5, 2.8, 3, 3.3, 4, 5 V	Enable, Ultra low noise, Ultra High PSRR
NCP582	150	220	75	70	6.5	SOT-563-6, SC-82AB-4	1.5, 1.8, 2.5, 2.8, 2.9, 3, 3.3 V	Enable, Ultra low noise
NCP583	150	250	1	45	6.5	SOT-563-6, SC-82AB-4	1.5, 1.8, 2.5, 2.6, 2.8, 2.9, 3, 3.1, 3.3 V	Enable, Ultra low I _q
NCP600	150	75	100 (@ 150 mA)	62	6.5	DFN-6, SOT-23-5	Adj, 1.3, 1.5, 1.8, 2.5, 2.8, 3, 3.3, 3.5, 5 V	Enable, Fast turn-ON
NCP629	150	75	135 (@ 150 mA)	62	6.5	Flip-Chip-5	1.5, 1.8, 2.8, 3, 3.3, 3.5, 5 V	0.6 mm max height
NCP698	150	370	2.5	--	6	SC-82AB-4	1.3, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 3.5, 5 V	Enable, Ultra Low I _q

* Voltage dropout was measured at full load for V_{out} = 3.3 V where applicable unless noted.** I_q was measured at 0 or 0.1 mA load unless noted.**** PSRR was measured at f = 120 Hz for V_{out} = 3.3 @ full load unless otherwise noted.

Note 1: These electrical characteristics are determined by an external MOSFET used in conjunction with the LDO controller.

Contact an ON Semiconductor Sales Representative for other voltage options or for automotive grade regulators.

Enabling Energy Efficient Solutions

Single Output Low-Dropout Linear Regulators (LDOs) continued

Device	I _{out} (mA)	Dropout* (Typ, mV)	I _q ** (Typ, µA)	PSRR**** (dB)	Max Input Voltage (V)	Package(s)	V _{out}	Features
NCP699	150	320	40	55	6	SOT-23-5	1.3, 1.4, 1.5, 1.8, 2.5, 2.8, 2.9, 3, 3.1, 3.3, 3.4, 4.5, 5 V	Enable
NCP5426	150	150	120	70 (@ 30 mA)	12	SOT-23-5	1.3 V	Enable, Vibrator driver
NCP584	200	100	3.5	75	6.5	SOT-23-5	0.9, 1.2, 1.5, 1.8, 2.5, 2.6, 2.8, 3, 3.1, 3.3 V	Enable, Tri-mode
NCP700	200	100	70	80	6	SOT-23-5, DFN-6	1.8, 2.5, 2.75, 2.8, 3, 3.3 V	Enable, Ultra low noise, Ultra High PSRR
CAT6218	300	180	55	64	6.5	TSOT-23-5	1.8, 2.4, 2.7, 2.85, 3.0, 3.2, 3.3 V	Fast turn-on, bypass option for lower noise
MC33275	300	260	125	75	13	SO-8, DPAK-3, SOT-223-3, DFN-8	2.5, 3, 3.3, 5 V	Tight line & load Reg.
MC33375	300	260	125	75	13	SO-8, SOT-223-3	1.8, 2.5, 3, 3.3, 5 V	Enable
NCP585	300	230	3.5	75 (@ 50 mA)	6.5	SOT-23-5, HSON-6	0.9, 1.0, 1.2, 1.25, 1.5, 1.8, 2.5, 2.8, 3, 3.3 V	Enable, Tri-mode
NCP2860	300	150	355	70	6	Micro8	Adj, 2.77 V	Low noise, Enable, Flag
NCP603	300	157	145	62	6.5	TSOP-5	Adj, 1.3, 1.5, 1.8, 2.5, 2.8, 3, 3.3, 3.5, 5 V	Enable
CAT6201 ***	300	250	100	62	14	SOIC-8, TDFN-8	Adj. 1.25V - 13.6 V	Adjustable current limit, FAULT indication, bypass option for lower noise, reverse current blocking
CAT6219	500	300	55	64	6.5	TSOT-23, TDFN-6	Adj, 1.25, 1.8, 2.5, 2.8, 2.85, 3.0, 3.3 V	Fast turn-on, bypass option for lower noise
NCP5500	500	230	300	75 (@ 100 mA)	18	DPAK-5, SO-8	Adj, 1.5, 3.3, 5 V	Enable, low noise
NCP5501	500	230	300	75 (@ 100 mA)	18	DPAK-3	1.5, 3.3, 5 V	Low noise
NCP3334	500	340 (max)	190 (max)	75	16	SO-8	Adj	Enable, High accuracy
NCP3335A	500	340 (max)	190 (max)	75	16	Micro8, DFN-10	Adj, 1.5, 1.8, 2.5, 2.8, 2.85, 3.0, 3.3, 5 V	Enable, Ultra High accuracy
NCP3337	500	340 (max)	190 (max)	75	16	DFN-10	Adj, 1.8, 2.5, 3.3, 5.0	Ultra low I _q , Pwr Good
NCP605	500	170	145 (@ 500mA)	62	6.5	DFN-6	Adj, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 5 V	Enhanced ESD protection
NCP606	500	170	145 (@ 500mA)	62	6.5	DFN-6	Adj, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 5 V	Enable, Enhanced ESD protection
MC33269	800	1.1 V	5.5 mA	55	20	SO-8, DPAK-3, SOT-223-3, TO-220-3	Adj, 3.3, 5, 12 V	Current limit protection
MC34268	800	950 (@ 490 mA)	3.0 mA	55 (min)	15	SO-8, DPAK-3, SOT-223-3	2.85 V	SCSI-2 Active Terminator
NCP1117	1.0 A	1.07 V (@ 800 mA)	3.6 mA	64 (@ 500 mA)	20	DPAK-3, SOT-223-3	Adj, 1.5, 1.8, 1.9, 2, 2.5, 2.85, 3.3, 5, 12 V	Current limit protection
NCP1117LP	1.0 A	1.3 V	550 (@ 10 mA)	60	18	SOT-223	Adj, 1.5, 1.8, 2.5, 3.3, 5 V	Low I _q
NCP5661	1.0 A	1.0 V	1.3 mA (@ 1 A)	70	18	DPAK-5, DFN-6	Adj, 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3 V	Enable, fast transient, flag
NCP690	1.0 A	240 ²	145	62 ³	6.5	DFN-6	Adj, 1.5, 1.8, 2.5, 3.3, 5 V	Very low dropout
NCP691	1.0 A	180	145	62	6.5	DFN-6	Adj, 1.5, 1.8, 2.5, 3.3, 5 V	Very low dropout, Enable
NCP692	1.0 A	240 ²	145	62 ³	6.5	DFN-6	Adj, 1.5, 1.8, 2.5, 3.3, 5 V	Very low dropout, Enable
NCP693	1.0 A	430	65	70 (@ 1kHz)	7	UDFN-6	0.8, 1, 1.2, 2.5, 3.3 V	Low dropout
NCP694	1.0 A	180	60	70 (@ 1kHz)	6.5	SOT-89-5, HSON-6	Adj, 0.8, 1, 1.2, 2.5, 3.3 V	Very low dropout
NCP565	1.5 A	900	1.5 mA (@ 1.5 A)	85	18	D2PAK-3/5, SOT-223-3, DFN-6	Adj, 1.2, 1.5, 2.8, 3.0, 3.3 V	Fast transient, Ultra High PSRR
NCP566	1.5 A	900	1.5 mA (@ 1.5 A)	85	9	SOT-223-3	1.2, 1.8, 2.5 V	Fast transient, Ultra High PSRR

* Voltage dropout was measured at full load for V_{out} = 3.3 V where applicable unless noted.

** I_q was measured at 0 or 0.1 mA load unless noted.

*** Coming soon.

**** PSRR was measured at f = 120 Hz for V_{out} = 3.3 @ full load unless otherwise noted.

Note 1: These electrical characteristics are determined by an external MOSFET used in conjunction with the LDO controller.

Note 2: @ V_{out} = 1.8 V

Note 3: @ V_{out} = 1.25 V

Contact an ON Semiconductor Sales Representative for other voltage options or for automotive grade regulators.

Single Output Low-Dropout Linear Regulators (LDOs) *continued*

Device	I _{out} (mA)	Dropout* (Typ, mV)	I _q ** (Typ, μ A)	PSRR**** (dB)	Max Input Voltage (V)	Package(s)	V _{out}	Features
NCP5662	2.0 A	1.0 V	1.3 mA (@ 2 A)	70	18	D2PAK-5, DFN-8	Adj, 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3 V	Enable, fast transient, flag
CS5253/B	3.0 A	400	--	80	13	D2PAK-5	Adj, 2.5 V	Control, Sense, Ultra High PSRR
NCP630	3.0 A	1.0 V	0.4 mA (@ 300 mA)	88	12	D2PAK-5	Adj, 3.47 V	Enable, Fast transient, Ultra High PSRR
NCP5663	3.0 A	1.0 V	1.3 mA (@ 3 A)	70	18	D2PAK-5	Adj, 1.5, 1.8 V	Enable, fast transient, flag
NCP5667	3.0 A	1.0 V	2.4 mA (@ 3A)	70	18	D2PAK-3	5 V	Enhanced ESD protection
NCP102 (Controller)	Note 1	Note 1	1.4 mA (@ V _{cc} = 5V)	50 (min)	15	TSOP-6	Adj down to 0.8 V	Enable, MLCC and POSCAP Compatible

* Voltage dropout was measured at full load for V_{out} = 3.3 V where applicable unless noted.** I_q was measured at 0 or 0.1 mA load unless noted.**** PSRR was measured at f = 120 Hz for V_{out} = 3.3 @ full load unless otherwise noted.

Note 1: These electrical characteristics are determined by an external MOSFET used in conjunction with the LDO controller.

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Multiple Output Low-Dropout Linear Regulators (LDOs)

Device	I _{out} (mA)	Dropout* (Typ, mV)	I _q ** (Typ, μ A)	Max Input Voltage (V)	Package(s)	V _{out}	Features
NCP4672 (Dual)	30, 80	150, -- (@ 20mA)	1.0 mA	18	SO-8	3.5/1.8 V	Programmable delay, Reset
MC33762 (Dual)	80, 80	160, 160	180	12	Micro8	2.5/2.5, 2.8/2.8, 3/3 V	Enable, Fast off to on, low noise
NCP4523 (Triple)	150, 80, 80	220, 160, 160	210	7	SSOP-8	2.8/2.8/2.8, 3/3/3, 2.35/2.8/2.8 V	Tight line & load Reg., High PSSR
MC33765 (5 Outputs)	30, 40, 50, 150, 60	110, 110, 110, 170, 110	470	5.3	TSSOP-16	5x2.8 V	Enable, Byp Pin, Ultra Low noise
NCP5504 (Dual)	250, 250	250, 250	370	18	DPAK-5	3.3/Adj V	Low noise, High PSSR
CAT6221 (Dual)	300, 300	210, 210	100	6.5	TSOT-23-6	Options 1.5 to 3.3 V	Enable, Zero shutdown current
NCP590 (Dual)	300, 300	165, 165	115	5.5	DFN-8	Combinations ranging from 0.8 to 5V	Enable, Ultra High Accuracy, Ultra Low Dropout

* Voltage dropout was measured at full load for V_{out} = 3.3 V where applicable unless noted.** I_q was measured at 0 or 0.1 mA load unless noted.

Note 1: These electrical characteristics are determined by an external MOSFET used in conjunction with the LDO controller.

Linear Regulators

Device	I _{out} (mA)	Dropout* (Typ, mV)	Max Input Voltage (V)	Package(s)	V _{out}	Features
LM317L	100	2	40	SO-8, TO-92-3	Adj.	Current & thermal protection
MC33160	100	2	40	SO-16, DIP-16	5 V	Enable, sense, reset
MC34160	100	2	40	SO-16, DIP-16	5 V	Enable, sense, reset
MC78LxxA	100	1.7	40	SO-8, TO-92-3	5, 8, 9, 12, 15, 18, 24 V	Current & thermal protection
MC79Lxx/A	100	1.7 (@ 40 mA)	-40	SO-8, TO-92-3	-(5, 12, 15, 18, 24) V	Current & thermal protection
MC33565 (Controller)	Note 1	Note 1	7	SO-8, Micro8	3.3 V	Controller, Auxiliary control, Sense
LM317M	500	2.2	40	TO-220-3, DPAK-3, SOT-223-3	Adj.	Current & thermal protection
MC78Mxx/A	500	2	40	TO-220-3, DPAK-3	5, 6, 8, 9, 12, 15, 18, 20, 24 V	Current & thermal protection
MC79Mxx/A	500	1.1	-35	TO-220-3, DPAK-3	-(5, 8, 12, 15) V	Current & thermal protection
MC78xx/A/AE	1.0 A	2	40	D2PAK-3, TO-220-3, DPAK-3	5, 6, 8, 9, 12, 15, 18, 24 V	Current & thermal protection
MC79xx/A	1.0 A	1.3	-40	TO-220-3, D2PAK-3	-(5, 5.2, 6, 8, 12, 15, 18, 24) V	Current & thermal protection
NCP78xx	1.0 A	1.3	13	TO-220	5, 8, 12, 15 V	Enhanced ESD protection
LM317	1.5 A	2.25	40	D2PAK-3, TO-220-3	Adj.	Current & thermal protection
LM337	1.5 A	2.4	-40	TO-220-3, D2PAK-3	Adj.	Current & thermal protection

* Voltage dropout was measured at full load for V_{out} = 3.3 V where applicable unless noted.

Note 1: These electrical characteristics are determined by an external MOSFET used in conjunction with the LDO controller.

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