

NCV8154

LDO Regulator, 300 mA, Low Dropout, Low Iq, High PSRR

Product Overview

For complete documentation, see the data sheet.

The NCV8154 is 300 mA, Dual Output Linear Voltage Regulator that offers two independent input pins and provides a very stable and accurate voltage with ultra low noise and very high Power Supply Rejection Ratio (PSRR) suitable for RF applications. The NCV8154 is suitable for powering RF blocks of automotive infotainment systems and other power sensitive device. Due to low power consumption the NCV8154 offers high efficiency and low thermal dissipation.

Features

- Low Dropout: 140 mV Typical at 300 mA
- High PSRR: 75dB at 1kHz
- Thermal Shutdown and Current Limit Protections
- Very Low Quiescent Current of Typ. 55 μ A
- Available in XDFN-8 1.6 x 1.2 mm Package
- Operating Input Voltage Range: 1.9 V to 5.25 V





Benefits

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

Applications

- Touchscreen Controller Supply
- Wireless LAN, Bluetooth®, ZigBee® Interfaces
- Parking Camera Modules
- Automotive Infotainment Systems

Part Electrical Specifications

Product	Pricing (\$/Unit)	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 _r ms)	Enable	PowerGood	Application	Package Type
NCV8154MN300300TBG	0.2556		Active	Dual	Positive	3	0.3	1.9	5.25	0.15	0.055	75	75	Yes	No	Automotive	DFN-10
NCV8154MTW180280TCG	0.2998		Active	Dual	Positive		0.3	1.9	5.25		0.055	75	75	Yes	No	Automotive	WDFN-6
NCV8154MW120180TBG	0.2556		Active	Dual	Positive		0.3	1.9	5.25		0.055	75	75	Yes	No	Automotive	DFN-10
NCV8154MW120280TBG	0.2556		Active	Dual	Positive		0.3	1.9	5.25		0.055	75	75	Yes	No	Automotive	DFN-10
NCV8154MW150180TBG	0.2556		Active	Dual	Positive		0.3	1.9	5.25		0.055	75	75	Yes	No	Automotive	DFN-10
NCV8154MW150330TBG	0.2556		Active	Dual	Positive		0.3	1.9	5.25		0.55	75	75	Yes	No	Automotive	DFN-10
NCV8154MW180250TBG	0.2556		Active	Dual	Positive		0.3	1.9	5.25		0.055	75	75	Yes	No	Automotive	DFN-10
NCV8154MW180280TBG	0.2556		Active	Dual	Positive		0.3	1.9	5.25		0.055	75	75	Yes	No	Automotive	DFN-10
NCV8154MW300300TBG	0.2556		Active	Dual	Positive	3	0.3	1.9	5.25	0.15	0.055	75	75	Yes	No	Automotive	DFN-10
NCV8154MW330180TBG	0.2556		Active	Dual	Positive		0.3	1.9	5.25		0.055	75	75	Yes	No	Automotive	DFN-10
NCV8154MW330280TBG	0.2556		Active	Dual	Positive		0.3	1.9	5.25		0.055	75	75	Yes	No	Automotive	DFN-10
NCV8154MW330330TBG	0.2556		Active	Dual	Positive	3.3	0.3	1.9	5.25	0.14	0.055	75	75	Yes	No	Automotive	DFN-10