

NCV8160

LDO Regulator, 250 mA, Ultra-Low Dropout, Low Iq, Ultra-High PSRR, Ultra-Low Noise

Product Overview

For complete documentation, see the data sheet.

The NCV8160 is a linear regulator capable of supplying 250 mA output current. Designed to meet the requirements of RF and analog circuits, the NCV8160 device provides low noise, high PSRR, low quiescent current, and very good load/line transients. The device is designed to work with a 1 μ F input and a 1 μ F output ceramic capacitor. It is available in XDFN-4 0.65P, 1 mm x 1 mm.

Similar Products:

	NCV8160	NCV8161	NCV8163	NCV8165
Output Current (A)	0.25	0.45	0.25	0.50
PSRR f=1 kHz (dB)	98	98	92	85
Noise (μ VRMS)	10	10	6.5	8.5

Features

- Ultra High PSRR 90dB at 1kHz, 20mA
- Ultra Low Output Noise 10 μ VRMS
- Very Low Dropout 90mV@250mA
- Ultra Low Quiescent current 18 μ A

Applications

- RF Modules
- Automotive Infotainment Systems
- Parking camera module
- Precision Analog Circuits
- Audio codec




Benefits

- Excellent for power sensitive device like camera module and wireless
- Very well suited for noise sensitive application
- Allow work with very low VIN-VOUT difference
- Improved efficiency during light load conditions

End Products

- Parking camera
- Intelligent rear mirror
- 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
NCV8160AMX180TBG	0.1247		Active	Single	Positive	1.8	0.25	1.9	5.5	0.18	0.018	98	10	Yes	No	Automotive	XDFN-4
NCV8160AMX250TBG	0.1247		Active	Single	Positive	2.5	0.25	1.9	5.5	0.11	0.018	98	10	Yes	No	Automotive	XDFN-4
NCV8160AMX280TBG	0.1247		Active	Single	Positive	2.8	0.25	1.9	5.5	0.095	0.018	98	10	Yes	No	Automotive	XDFN-4
NCV8160AMX290TBG	0.1247		Active	Single	Positive	2.9	0.25	1.9	5.5	0.095	0.018	98	10	Yes	No	Automotive	XDFN-4
NCV8160AMX300TBG	0.1247		Active	Single	Positive	3	0.25	1.9	5.5	0.09	0.018	98	10	Yes	No	Automotive	XDFN-4
NCV8160AMX330TBG	0.1247		Active	Single	Positive	3.3	0.25	1.9	5.5	0.06	0.018	98	10	Yes	No	Automotive	XDFN-4