

Product Overview

NCV8160: LDO Regulator, 250 mA, Ultra-Low Dropout, Low Iq, Ultra-High PSRR, Ultra-Low Noise

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 1µF input and a 1µF 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 (µVRMS)	10	10	6.5	8.5

Features

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

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)	PSR R (dB)	Noise (μV _{rms})	Enable	Power Good	Package Type
NCV8160AMX180TBG	0.112	AEC Qualified	Active	Single	Positive	1.8	0.25	1.9	5.5	0.18	0.018	98	10	Yes	No	XDF N-4
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8160AMX250TBG	0.112	AEC Qualified	Active	Single	Positive	2.5	0.25	1.9	5.5	0.11	0.018	98	10	Yes	No	XDF N-4
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8160AMX280TBG	0.112	AEC Qualified	Active	Single	Positive	2.8	0.25	1.9	5.5	0.095	0.018	98	10	Yes	No	XDF N-4
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8160AMX290TBG	0.112	AEC Qualified	Active	Single	Positive	2.9	0.25	1.9	5.5	0.095	0.018	98	10	Yes	No	XDF N-4
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8160AMX300TBG	0.112	AEC Qualified	Active	Single	Positive	3	0.25	1.9	5.5	0.09	0.018	98	10	Yes	No	XDF N-4
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8160AMX330TBG	0.112	AEC Qualified	Active	Single	Positive	3.3	0.25	1.9	5.5	0.06	0.018	98	10	Yes	No	XDF N-4
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8160BMX180TBG	0.112	AEC Qualified	Active	Single	Positive	1.8	0.25	1.9	5.5	0.18	0.018	98	10	Yes	No	XDF N-4
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8160BMX250TBG	0.112	AEC Qualified	Active	Single	Positive	2.5	0.25	1.9	5.5	0.11	0.018	98	10	Yes	No	XDF N-4
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8160BMX280TBG	0.112	AEC Qualified	Active	Single	Positive	2.8	0.25	1.9	5.5	0.095	0.018	98	10	Yes	No	XDF N-4
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8160BMX300TBG	0.112	AEC Qualified	Active	Single	Positive	3	0.25	1.9	5.5	0.09	0.018	98	10	Yes	No	XDF N-4
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8160BMX330TBG	0.112	AEC Qualified	Active	Single	Positive	3.3	0.25	1.9	5.5	0.06	0.018	98	10	Yes	No	XDF N-4
		PPAP Capable														
		Pb-free														
		Halide free														

For more information please contact your local sales support at www.onsemi.com.

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