

## Product Overview

### NCV8715: LDO Regulator, 50 mA, Low Dropout, Ultra-Low Iq

For complete documentation, see the data sheet.

The NCV8715 is 50 mA LDO Linear Voltage Regulator. It is a very stable and accurate device with ultra-low ground current consumption (4.7 uA over the full output load range) and a wide input voltage range (up to 24 V). The regulator incorporates several protection features such as Thermal Shutdown and Current Limiting.

#### Similar Products:

	<a href="#">NCV8715</a>	<a href="#">NCV8716</a>	<a href="#">NCV8718</a>
Output Current (A)	0.05	0.08	0.30
PSRR f=1 kHz (dB)	50	50	60
Dropout Voltage (V)	0.230	0.310	0.285

#### Features

- Operating Input Voltage Range: 2.5 V to 24 V
- 1.2 V, 1.5 V, 1.8 V, 2.5 V, 3.0 V, 3.3 V, 5.0 V Fixed Output Voltage Versions
- Low 4.7 uA typ Quiescent Current
- PSRR 54 dB at 1 kHz
- Thermal Shutdown and Current Limit Protections
- Available in XDFN6 1.5 x 1.5 mm and SC-70 packages

#### Benefits

- Suitable for battery supply
- Design Flexibility
- Extended Battery life
- Good for noise sensitive circuits
- Protect product and system from damage
- Space Saving

#### Applications

- Infotainment, Audio
- Safety Systems
- Communication Systems

## Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V <sub>o</sub> (V)	I <sub>o</sub> Typ (A)	V <sub>i</sub> Min (V)	V <sub>i</sub> Max (V)	V <sub>DO</sub> Typ (V)	I <sub>g</sub> Typ (mA)	PSR R (dB)	Noise (μV <sub>rms</sub> )	Enable	Power Good	Application	Package Type
NCV8715MX18TBG	0.3347	AEC Qualified	Active	Single	Positive	1.8	0.05	2.5	24		0.0034	60	95	No	No	Automotive	XDFN-6
		PPAP Capable															
		Pb-free															
		Halide free															
NCV8715MX30TBG	0.3347	AEC Qualified	Active	Single	Positive	3	0.05	2.5	24	0.25	0.0034	60	135	No	No	Automotive	XDFN-6
		PPAP Capable															
		Pb-free															
		Halide free															
NCV8715MX33TBG	0.3347	AEC Qualified	Active	Single	Positive	3.3	0.05	2.5	24	0.23	0.0034	60	140	No	No	Automotive	XDFN-6
		PPAP Capable															
		Pb-free															
		Halide free															
NCV8715MX50TBG	0.3347	AEC Qualified	Active	Single	Positive	5	0.05	2.5	24	0.23	0.0034	56	190	No	No	Automotive	XDFN-6
		PPAP Capable															
		Pb-free															
		Halide free															
NCV8715SQ12T2G	0.3347	AEC Qualified	Active	Single	Positive	1.2	0.05	2.5	24		0.0034	60	65	No	No	Automotive	SC-88A / SC-70-5
		PPAP Capable															
		Pb-free															
		Halide free															
NCV8715SQ18T2G	0.3347	AEC Qualified	Active	Single	Positive	1.8	0.05	2.5	24		0.0034	60	95	No	No	Automotive	SC-88A / SC-70-5
		PPAP Capable															
		Pb-free															
		Halide free															
NCV8715SQ33T2G	0.3347	AEC Qualified	Active	Single	Positive	3.3	0.05	2.5	24	0.23	0.0034	60	140	No	No	Automotive	SC-88A / SC-70-5
		PPAP Capable															
		Pb-free															
		Halide free															
NCV8715SQ50T2G	0.3347	AEC Qualified	Active	Single	Positive	5	0.05	2.5	24	0.23	0.0034	56	190	No	No	Automotive	SC-88A / SC-70-5
		PPAP Capable															
		Pb-free															
		Halide free															

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