

## Product Overview

### NCV8720: LDO Regulator, 350 mA, Ultra-Low Dropout, High PSRR, with Bias Rail

For complete documentation, see the data sheet.

NCV8720 is a 350 mA LDO equipped with NMOS pass transistor and a separate bias supply voltage (VBIAS). The device provides very stable, accurate output voltage with low noise suitable for space constrained, noise sensitive applications. In order to optimize performance for battery operated portable applications, the NCV8720 features low IQ consumption. The NCV8720 is offered in WDFN6 2 mm x 2 mm package, wettable flanks option available for Enhanced Optical Inspection.

Similar Products:

&nbsp;  
 NCV8130  
 NCV8133  
 NCV8135  
 NCV8720

Output Current (A)  
 0.30  
 0.50  
 0.50  
 0.35

PSRR f=1 kHz (dB)  
 65  
 70  
 73  
 65

Dropout Voltage (V)  
 0.075  
 0.140  
 0.053  
 0.110

Wettable Flank  
 No  
 No  
 Yes  
 Yes

### Features

- Ultra-Low Dropout of Typ. 110 mV
- Fixed Output Voltage options from 0.8 V to 2.1 V
- 110 mV typical dropout at the full 350 mA load.
- Guaranteed Output Current from 0 mA to 350 mA
- 0.5% Typical Output Voltage Accuracy
- Output Current in Excess of 350 mA

### Applications

- Automotive
- Battery - powered and Portable Equipment

### Benefits

- Allows to save power and operates with very low Vin-Vout voltage.
- Excellent choice for low voltage Vcore applications
- minimizes the power loss across the regulator
- Very good choice for high current applications
- Perfect fit for POL applications

### End Products

- Automotive Equipment Point of Load Regulation

## Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V <sub>O</sub> (V)	I <sub>O Typ</sub> (A)	V <sub>Min</sub> (V)	V <sub>Max</sub> (V)	V <sub>DO Typ</sub> (V)	I <sub>q Typ</sub> (mA)	PSR R (dB)	Noise (μV <sub>rms</sub> )	Enable	Power Good	Package Type
NCV8720BMT100TBG	0.1867	AEC Qualified	Active	Single	Positive	1	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8720BMT105TBG	0.1867	AEC Qualified	Active	Single	Positive	1.05	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8720BMT110TBG	0.1867	AEC Qualified	Active	Single	Positive	1.1	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8720BMT115TBG	0.1867	AEC Qualified	Active	Single	Positive	1.15	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8720BMT120TBG	0.1867	AEC Qualified	Active	Single	Positive	1.2	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8720BMT125TBG	0.1867	AEC Qualified	Active	Single	Positive	1.25	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8720BMT130TBG	0.1867	AEC Qualified	Active	Single	Positive	1.3	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8720BMT135TBG	0.1867	AEC Qualified	Active	Single	Positive	1.35	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8720BMT140TBG	0.1867	AEC Qualified	Active	Single	Positive	1.4	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8720BMT145TBG	0.1867	AEC Qualified	Active	Single	Positive	1.45	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
		PPAP Capable														
		Pb-free														
		Halide free														
NCV8720BMT150TBG	0.1867	AEC Qualified	Active	Single	Positive	1.5	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
		PPAP Capable														
		Pb-free														
		Halide free														

NCV8720BMT160TBG	0.1867	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.6	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
NCV8720BMT170TBG	0.1867	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.7	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
NCV8720BMT180TBG	0.1867	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.8	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
NCV8720BMTW090TBG	0.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	0.9	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
NCV8720BMTW110TBG	0.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.1	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
NCV8720BMTW120TBG	0.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.2	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
NCV8720BMTW130TBG	0.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.3	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
NCV8720BMTW150TBG	0.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.5	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6
NCV8720BMTW180TBG	0.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.8	0.35	0.8	5.5	0.11	0.08	70	40	Yes	No	WDF N-6

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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