Product Overview

NCP716BC: LDO Regulator, 150 mA, Ultra-Low Iq

For complete documentation, see the data sheet.

The NCP716B is 150 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).

Features

- Wide Input Voltage Range: Up to 24V
- Ultra-Low Quiescent current: 3.2uA Typical
- Fixed Output Voltage Options: from 3.0V to 5.0V
- Power Supply Rejection Ratio: 55dB @ 100kHz
- Package: TSOP-5 / SOT-23-5

Benefits

- Compatible with most battery sources and DC output voltage adapters
- Helps to reduce the current consumption
- Very-well suited to power low supply voltage microcontrollers or sensors
- Provides very good input to output voltage isolation
- Offers very small overall solution size

Applications

- Portable Equipment
- Communication Systems
- Consumer Electronics Devices
- Portable Medical Devices
- Power Supply Adapters

End Products

- Notebook Adapters
- Smoke Sensors
- Battery Powered Power Tools
- Electronic Thermostats
- Zigbee & Bluetooth Low Energy Enabled Devices

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_g Typ (mA)	PSRR (dB)	Noise (μV_{rms})	Enable	PowerGood	Application	Package Type
NCP716BCSN300T1G	0.12	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	3	0.15	2.5	24	0.7	0.0032	56	80				TSOP-5 / SOT-23-5
NCP716BCSN330T1G	0.12	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	3.3	0.15	2.5	24	0.67	0.0032	55	98				TSOP-5 / SOT-23-5
NCP716BCSN345T1G	0.12	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	3.45	0.15	2.5	24	0.65	0.0032	54	102				TSOP-5 / SOT-23-5
NCP716BCSN500T1G	0.12	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	5	0.15	2.5	24	0.6	0.0032	53	115				TSOP-5 / SOT-23-5

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