

产品概览

NCP171: LDO Regulator, Ultra-Low 50nA Iq, with Dual Power Mode, 80mA

欲看完整文档，请参阅数据表。

The NCP171 is a Dual mode LDO offering up to 80 mA in Active Mode and as low as 50 nA of Iq in Low Power Mode. The Dual Mode function is selectable with the ECO pin allowing for dynamic switching between Active and Low Power Modes, ideal in long life battery powered wireless applications.

The output Voltage in Low Power mode can be lowered by an internally factory programmed value ranging 50 mV, 100 mV, 150 mV or 200 mV with respect to the nominal output voltage in Active Mode.

This feature further lowers the application consumption in sleep mode.

The NCP171 is in the SLIQ (Super Low Iq) LDO family with an Ultra Low Quiescent current of 50nA and is available in small XDFN4 1.2 x 1.2 package.

特性

- Super Low Iq of 50nA
- Dual Mode Functionality Optimized for both Active mode and Standby mode operation
- Active Mode, up to 80mA, with excellent PSRR and Noise Performance
- Low Power Mode (SLIQ), with 50nA Iq
- Mode Select, ECO Pin
- XDFN 1.2x1.2 Package

应用

- Wireless battery Powered IoT Sensors
- Battery Powered Medical devices
- Disposable Medical devices/Patches
- Smoke Detectors with 10 year Battery Life
- Remote Controllers

优势

- Excellent for battery powered applications
- System Flexibility to switch between two distinct operating modes optimizing performance and Extended Battery life
- Ideal for RF supply and High Precision Sensors
- Extends battery life when system is in extended standby (low Power) mode
- Flexible selection between Active and Low Power modes
- Small Footprint for Space Constrained Applications

终端产品

- Smart Watches
- Medical Patches
- Smoke detectors
- Home Security Sensors
- Battery Powered Surveillance Camera

器件电气规格

产品	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
NCP171AMX080060TCG	0.2333	Pb-free Halide free	Active	Single	Positive	0.6 0.8	0.08	1.7	5.5		0.0005	65	54	Yes	No	XDF N-4
NCP171AMX080075TCG	0.2333	Pb-free Halide free	Active	Single	Positive	0.8 0.75	0.08	1.7	5.5		0.0005	65	54	Yes	No	XDF N-4
NCP171AMX100080TCG	0.2333	Pb-free Halide free	Active	Single	Positive	0.8 1	0.08	1.7	5.5		0.0005	65	54	Yes	No	XDF N-4
NCP171AMX120100TCG	0.2333	Pb-free Halide free	Active	Single	Positive	1.2 1	0.08	1.7	5.5		0.0005	65	54	Yes	No	XDF N-4
NCP171AMX165160TCG	0.2333	Pb-free Halide free	Active	Single	Positive	1.6 1.65	0.08	1.7	5.5		0.0005	65	54	Yes	No	XDF N-4
NCP171AMX170165TCG	0.2333	Pb-free Halide free	Active	Single	Positive	1.7 1.65	0.08	1.7	5.5		0.0005	65	54	Yes	No	XDF N-4
NCP171AMX180175TCG	0.2333	Pb-free Halide free	Active	Single	Positive	1.75 1.8	0.08	1.7	5.5	0.06 0.075	0.0005	65	54	Yes	No	XDF N-4
NCP171AMX280275TCG	0.2333	Pb-free Halide free	Active	Single	Positive	2.8 2.75	0.08	1.7	5.5	0.045 0.017	0.0005	65	54	Yes	No	XDF N-4
NCP171AMX330310TCG	0.2333	Pb-free Halide free	Active	Single	Positive	3.3 3.1	0.08	1.7	5.5	0.013 0.044	0.0005	65	54	Yes	No	XDF N-4
NCP171AMX330325TCG	0.2333	Pb-free Halide free	Active	Single	Positive	3.3 3.25	0.08	1.7	5.5	0.012 0.044	0.0005	65	54	Yes	No	XDF N-4

欲了解更多信息，请联系您当地的销售支援 www.onsemi.cn。

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