

产品概览

NCP171: LDO 稳压器，超低 50nA Iq，双功率模式，80mA

欲看完整文档，请参阅数据表。

NCP171 是一款双模式 LDO，在有源模式下提供高达 80 mA 的电流，在低功率模式下则提供低至 50 nA 的 Iq。双模式功能可使用 ECO 引脚选择，实现有源和低功率模式的动态切换，适用于长期电池供电的无线应用。低功率模式下的输出电压可通过内部的出厂编程值进行降低，该值范围为 50 mV、100 mV、150 mV 或 200 mV 并与有源模式下的标称输出电压相关。此功能还会进一步降低睡眠模式下的应用功耗。NCP171 为 SLIQ (超低 Iq) LDO 系列，具有 50nA 超低静止电流，采用小型 XDFN4 1.2 x 1.2 封装。

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
NCP171A3MX170165TCG	0.2467	Pb-free Halide free	NEW	Single	Positive	$\frac{1.7}{1.65}$	0.08	1.7	5.5		0.0005	65	54	Yes	No	XDF N-4
NCP171AMX080060TCG	0.2333	Pb-free Halide free	Active	Single	Positive	$\frac{0.6}{0.8}$	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	$\frac{0.8}{0.75}$	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	$\frac{0.8}{1}$	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	$\frac{1.2}{1}$	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	$\frac{1.6}{1.65}$	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	$\frac{1.7}{1.65}$	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	$\frac{1.75}{1.8}$	0.08	1.7	5.5	$\frac{0.06}{0.075}$	0.0005	65	54	Yes	No	XDF N-4
NCP171AMX280275TCG	0.2333	Pb-free Halide free	Active	Single	Positive	$\frac{2.8}{2.75}$	0.08	1.7	5.5	$\frac{0.045}{0.017}$	0.0005	65	54	Yes	No	XDF N-4
NCP171AMX330310TCG	0.2333	Pb-free Halide free	Active	Single	Positive	$\frac{3.3}{3.1}$	0.08	1.7	5.5	$\frac{0.013}{0.044}$	0.0005	65	54	Yes	No	XDF N-4
NCP171AMX330325TCG	0.2333	Pb-free Halide free	Active	Single	Positive	$\frac{3.3}{3.25}$	0.08	1.7	5.5	$\frac{0.012}{0.044}$	0.0005	65	54	Yes	No	XDF N-4

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