

产品概览

NCP161: LDO 稳压器, 450 mA, 超高 PSRR, 超低噪音

欲看完整文档, 请参阅数据表。



NCP161 是一款线性稳压器, 能够提供 450 mA 输出电流。NCP161 器件专用于满足射频和模拟电路要求, 提供了低噪音、高 PSRR、低静止电流和非常好的负载/线路瞬变。该器件设计使用 1 μ F 输入和 1 μ F 输出陶瓷电容器。它采用两厚度超小 0.35P, 0.65 mm x 0.65 mm 芯片级封装 (CSP), XDFN-4 0.65P, 1 mm x 1 mm 和 TSOP5 封装。

特性

- Ultra High PSRR 98dB at 1kHz, 48dB at 100kHz
- Ultra Low Output Noise 10 μ VRMS
- Ultra Low Quiescent current 18 μ A
- Operating Input Voltage Range 1.9V to 5.5V
- Very Low Dropout 150mV at 450mA
- Available in CSP4 0.35P and XDFN4 0.65P package
- Available in industry standard TSOP5 package

应用

- A/D and D/A Converters Power supply
- Audio codec
- Battery Powered Equipment
- Camera module
- Precision Analog Circuits

优势

- Excellent for power sensitive device like Wi-Fi module
- Very well suited for noise sensitive application
- Improved efficiency during light load conditions
- Suitable for battery powered device
- Low power dissipation at full load
- Great for space constrained application
- Suitable for industrial applications

终端产品

- Cameras and camcoders
- Smartphones
- Tablets
- Wireless Routers

产品	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _{Min} (V)	V _{Max} (V)	V _{DO} Typ (V)	I _q Typ (mA)	PSR R (dB)	Noise (μV _{rms})	Enable	PowerGood	Package Type
NCP161AFCS180T2G	0.0697	Pb-free Halide free	Active	Single	Positive	1.8	0.45	1.9	5.5	0.3	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCS250T2G	0.0697	Pb-free Halide free	Active	Single	Positive	2.5	0.45	1.9	5.5	0.19	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCS280T2G	0.0697	Pb-free Halide free	Active	Single	Positive	2.8	0.45	1.9	5.5	0.175	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCS285T2G	0.0697	Pb-free Halide free	Active	Single	Positive	2.85	0.45	1.9	5.5	0.17	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCS300T2G	0.0697	Pb-free Halide free	Active	Single	Positive	3	0.45	1.9	5.5	0.165	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCS320T2G	0.0697	Pb-free Halide free	Active	Single	Positive	3.2	0.45	1.9	5.5	0.155	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCS330T2G	0.0697	Pb-free Halide free	Active	Single	Positive	3.3	0.45	1.9	5.5	0.15	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCS350T2G	0.0697	Pb-free Halide free	Active	Single	Positive	3.5	0.45	1.9	5.5	0.15	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCS450T2G	0.0697	Pb-free Halide free	Active	Single	Positive	4.5	0.45	1.9	5.5	0.12	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCS500T2G	0.0697	Pb-free Halide free	Active	Single	Positive	5	0.45	1.9	5.5	0.105	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCS514T2G	0.0697	Pb-free Halide free	Active	Single	Positive	5.14	0.45	1.9	5.5	0.105	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT180T2G	0.0635	Pb-free Halide free	Active	Single	Positive	1.8	0.45	1.9	5.5	0.3	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT185T2G	0.0635	Pb-free Halide free	Active	Single	Positive	1.85	0.45	1.9	5.5	0.3	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT250T2G	0.0635	Pb-free Halide free	Active	Single	Positive	2.5	0.45	1.9	5.5	0.19	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT280T2G	0.0635	Pb-free Halide free	Active	Single	Positive	2.8	0.45	1.9	5.5	0.175	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT285T2G	0.0635	Pb-free Halide free	Active	Single	Positive	2.85	0.45	1.9	5.5	0.17	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT290T2G	0.0635	Pb-free Halide free	Active	Single	Positive	2.9	0.45	1.9	5.5	0.163	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT300T2G	0.0635	Pb-free Halide free	Active	Single	Positive	3	0.45	1.9	5.5	0.165	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT310T2G	0.0635	Pb-free Halide free	Active	Single	Positive	3.1	0.45	1.9	5.5	0.16	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT330T2G	0.0635	Pb-free Halide free	Active	Single	Positive	3.3	0.45	1.9	5.5	0.15	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT350T2G	0.0635	Pb-free Halide free	Active	Single	Positive	3.5	0.45	1.9	5.5	0.15	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT450T2G	0.0635	Pb-free Halide free	Active	Single	Positive	4.5	0.45	1.9	5.5	0.12	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT500T2G	0.0635	Pb-free Halide free	Active	Single	Positive	5	0.45	1.9	5.5	0.105	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCT514T2G	0.0635	Pb-free Halide free	Active	Single	Positive	5.14	0.45	1.9	5.5	0.105	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCTC280T2G		Pb-free Halide free	Active	Single	Positive	2.8	0.45	1.9	5.5	0.175	0.018	98	10	Yes	No	WLCSP-4
NCP161AFCTC350T2G		Pb-free Halide free	Active	Single	Positive	3.5	0.45	1.9	5.5	0.15	0.018	98	10	Yes	No	WLCSP-4

NCP161AMX180TBG	0.0777	Pb-free Halide free	Active	Single	Positive	1.8	0.45	1.9	5.5	0.3	0.018	98	10	Yes	No	XDF N-4
NCP161AMX185TBG	0.0777	Pb-free Halide free	Active	Single	Positive	1.85	0.45	1.9	5.5	0.3	0.018	98	10	Yes	No	XDF N-4
NCP161AMX250TBG	0.0777	Pb-free Halide free	Active	Single	Positive	2.5	0.45	1.9	5.5	0.19	0.018	98	10	Yes	No	XDF N-4
NCP161AMX280TBG	0.0777	Pb-free Halide free	Active	Single	Positive	2.8	0.45	1.9	5.5	0.175	0.018	98	10	Yes	No	XDF N-4
NCP161AMX285TBG	0.0777	Pb-free Halide free	Active	Single	Positive	2.85	0.45	1.9	5.5	0.17	0.018	98	10	Yes	No	XDF N-4
NCP161AMX300TBG	0.0777	Pb-free Halide free	Active	Single	Positive	3	0.45	1.9	5.5	0.165	0.018	98	10	Yes	No	XDF N-4
NCP161AMX320TBG	0.0777	Pb-free Halide free	Active	Single	Positive	3.2	0.45	1.9	5.5	0.155	0.018	98	10	Yes	No	XDF N-4
NCP161AMX330TBG	0.0777	Pb-free Halide free	Active	Single	Positive	3.3	0.45	1.9	5.5	0.15	0.018	98	10	Yes	No	XDF N-4
NCP161AMX350TBG	0.0777	Pb-free Halide free	Active	Single	Positive	3.5	0.45	1.9	5.5	0.15	0.018	98	10	Yes	No	XDF N-4
NCP161AMX450TBG	0.0777	Pb-free Halide free	Active	Single	Positive	4.5	0.45	1.9	5.5	0.12	0.018	98	10	Yes	No	XDF N-4
NCP161AMX500TBG	0.0777	Pb-free Halide free	Active	Single	Positive	5	0.45	1.9	5.5	0.105	0.018	98	10	Yes	No	XDF N-4
NCP161AMX514TBG	0.0777	Pb-free Halide free	Active	Single	Positive	5.14	0.45	1.9	5.5	0.105	0.018	98	10	Yes	No	XDF N-4
NCP161ASN180T1G	0.1133	Pb-free Halide free	Active	Single	Positive	1.8	0.45	1.9	5.5	0.3	0.018	98	10	Yes	No	SOT- 23-5
NCP161ASN250T1G	0.1133	Pb-free Halide free	Active	Single	Positive	2.5	0.45	1.9	5.5	0.19	0.018	98	10	Yes	No	SOT- 23-5
NCP161ASN280T1G	0.1133	Pb-free Halide free	Active	Single	Positive	2.8	0.45	1.9	5.5	0.175	0.018	98	10	Yes	No	SOT- 23-5
NCP161ASN300T1G	0.1133	Pb-free Halide free	Active	Single	Positive	3	0.45	1.9	5.5	0.165	0.018	98	10	Yes	No	SOT- 23-5
NCP161ASN330T1G	0.1133	Pb-free Halide free	Active	Single	Positive	3.3	0.45	1.9	5.5	0.15	0.018	98	10	Yes	No	SOT- 23-5
NCP161ASN350T1G	0.1133	Pb-free Halide free	Active	Single	Positive	3.5	0.45	1.9	5.5	0.15	0.018	98	10	Yes	No	SOT- 23-5
NCP161ASN500T1G	0.1133	Pb-free Halide free	Active	Single	Positive	5	0.45	1.9	5.5	0.105	0.018	98	10	Yes	No	SOT- 23-5
NCP161BFCS180T2G	0.0697	Pb-free Halide free	Active	Single	Positive	1.8	0.45	1.9	5.5	0.3	0.018	98	10	Yes	No	WLC SP-4
NCP161BFCS250T2G	0.0697	Pb-free Halide free	Active	Single	Positive	2.5	0.45	1.9	5.5	0.19	0.018	98	10	Yes	No	WLC SP-4
NCP161BFCS280T2G	0.0697	Pb-free Halide free	Active	Single	Positive	2.8	0.45	1.9	5.5	0.175	0.018	98	10	Yes	No	WLC SP-4
NCP161BFCS285T2G	0.0697	Pb-free Halide free	Active	Single	Positive	2.85	0.45	1.9	5.5	0.17	0.018	98	10	Yes	No	WLC SP-4
NCP161BFCS300T2G	0.0697	Pb-free Halide free	Active	Single	Positive	3	0.45	1.9	5.5	0.165	0.018	98	10	Yes	No	WLC SP-4
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NCP161BFCS450T2G	0.0697	Pb-free Halide free	Active	Single	Positive	4.5	0.45	1.9	5.5	0.12	0.018	98	10	Yes	No	WLC SP-4

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NCP161BFCT180T2G	0.0635	Pb-free Halide free	Active	Single	Positive	1.8	0.45	1.9	5.5	0.3	0.018	98	10	Yes	No	WLC SP-4
NCP161BFCT185T2G	0.0697	Pb-free Halide free	Active	Single	Positive	1.85	0.45	1.9	5.5	0.3	0.018	98	10	Yes	No	WLC SP-4
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NCP161BFCT330T2G	0.0635	Pb-free Halide free	Active	Single	Positive	3.3	0.45	1.9	5.5	0.15	0.018	98	10	Yes	No	WLC SP-4
NCP161BFCT350T2G	0.0635	Pb-free Halide free	Active	Single	Positive	3.5	0.45	1.9	5.5	0.15	0.018	98	10	Yes	No	WLC SP-4
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NCP161BFCT514T2G	0.0635	Pb-free Halide free	Active	Single	Positive	5.14	0.45	1.9	5.5	0.105	0.018	98	10	Yes	No	WLC SP-4
NCP161BMX180TBG	0.0777	Pb-free Halide free	Active	Single	Positive	1.8	0.45	1.9	5.5	0.3	0.018	98	10	Yes	No	XDF N-4
NCP161BMX250TBG	0.0777	Pb-free Halide free	Active	Single	Positive	2.5	0.45	1.9	5.5	0.19	0.018	98	10	Yes	No	XDF N-4
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NCP161BMX300TBG	0.0777	Pb-free Halide free	Active	Single	Positive	3	0.45	1.9	5.5	0.165	0.018	98	10	Yes	No	XDF N-4
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NCP161BMX514TBG	0.0777	Pb-free Halide free	Active	Single	Positive	5.14	0.45	1.9	5.5	0.105	0.018	98	10	Yes	No	XDF N-4

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创建于：5/31/2020