

## 产品概览

### NCP163: LDO 稳压器, 250 mA, 超高 PSRR, 超低噪音

欲看完整文档, 请参阅数据表。



NCP163 是一款 LDO (低泄漏稳压器), 能够提供 250 mA 输出电流。NCP163 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/线路瞬态。该器件设计使用 1  $\mu$ F 输入和 1  $\mu$ 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 92dB at 1 kHz, 60dB at 100 kHz
- Ultra Low Output Noise 6.5  $\mu$ VRMS
- Ultra Low Quiescent current 12  $\mu$ A
- Operating Input Voltage Range 2.2V to 5.5V
- Very Low Dropout 80mV at 250mA
- Available in 0.64mm x 0.64 mm CSP4 0.35P and 1mm x 1mm XDFN4 0.65P Packages
- Available in 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 constraint application
- Suitable for applications requiring leaded package

#### 终端产品

- Cameras and camcoders
- Smartphones
- Tablets
- Wireless Routers



产品	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V <sub>o</sub> (V)	I <sub>o Typ</sub> (A)	V <sub>i Min</sub> (V)	V <sub>i 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	Application	Package Type
NCP163AFCS120T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.2	0.25	2.2	5.5		0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCS180T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.8	0.25	2.2	5.5	0.18	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCS250T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.5	0.25	2.2	5.5	0.11	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCS260T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.6	0.25	2.2	5.5	0.11	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCS270T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.7	0.25	2.2	5.5	0.1	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCS280T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.8	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCS285T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.85	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCS290T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.9	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCS2925T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.925	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCT120T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.2	0.25	2.2	5.5		0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCT180T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.8	0.25	2.2	5.5	0.18	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCT250T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.5	0.25	2.2	5.5	0.11	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCT260T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.6	0.25	2.2	5.5	0.11	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCT270T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.7	0.25	2.2	5.5	0.1	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCT280T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.8	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	WLCSP-4
NCP163AFCT285T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.85	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	WLCSP-4

NCP163AFCT290T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.9	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	WLC SP-4
NCP163AFCT2925T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.925	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	WLC SP-4
NCP163AFCT300T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	3	0.25	2.2	5.5	0.09	0.012	92	6.5	Yes	No	Consumer	WLC SP-4
NCP163AFCT330T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	3.3	0.25	2.2	5.5	0.08	0.012	92	6.5	Yes	No	Consumer	WLC SP-4
NCP163AMX120TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.2	0.25	2.2	5.5		0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX130TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.3	0.25	2.2	5.5		0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX150TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.5	0.25	2.2	5.5		0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX180TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.8	0.25	2.2	5.5	0.18	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX1825TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.825	0.25	2.2	5.5	0.18	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX190TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.9	0.25	2.2	5.5	0.175	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX250TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.5	0.25	2.2	5.5	0.11	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX260TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.6	0.25	2.2	5.5	0.105	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX270TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.7	0.25	2.2	5.5	0.1	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX275TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.75	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX280TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.8	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX285TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.85	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX290TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.9	0.25	2.2	5.5	0.9	0.012	92	6.5	Yes	No	Consumer	XDF N-4

NCP163AMX300TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	3	0.25	2.2	5.5	0.09	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX330TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	3.3	0.25	2.2	5.5	0.08	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163AMX500TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	5	0.25	2.2	5.5	0.075	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163ASN150T1G	0.1433	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.5	0.25	2.2	5.5		0.012	92	6.5	Yes	No	Consumer	SOT- 23-5
NCP163ASN180T1G	0.1433	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.8	0.25	2.2	5.5	0.18	0.012	92	6.5	Yes	No	Consumer	SOT- 23-5
NCP163ASN250T1G	0.1433	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.5	0.25	2.2	5.5	0.11	0.012	92	6.5	Yes	No	Consumer	SOT- 23-5
NCP163ASN270T1G	0.1433	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.7	0.25	2.2	5.5	0.1	0.012	92	6.5	Yes	No	Consumer	SOT- 23-5
NCP163ASN280T1G	0.1433	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.8	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	SOT- 23-5
NCP163ASN300T1G	0.1433	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	3	0.25	2.2	5.5	0.09	0.012	92	6.5	Yes	No	Consumer	SOT- 23-5
NCP163ASN330T1G	0.1433	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	3.3	0.25	2.2	5.5	0.08	0.012	92	6.5	Yes	No	Consumer	SOT- 23-5
NCP163ASN500T1G	0.1433	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	5	0.25	2.2	5.5	0.075	0.012	92	6.5	Yes	No	Consumer	SOT- 23-5
NCP163BFCS180T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.8	0.25	2.2	5.5	0.18	0.012	92	6.5	Yes	No	Consumer	WLC SP-4
NCP163BFCS2925T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.925	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	WLC SP-4
NCP163BFCT180T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.8	0.25	2.2	5.5	0.18	0.012	92	6.5	Yes	No	Consumer	WLC SP-4
NCP163BFCT2925T2G	0.1113	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.925	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	WLC SP-4
NCP163BMX180TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.8	0.25	2.2	5.5	0.18	0.012	92	6.5	Yes	No	Consumer	XDF N-4
NCP163BMX1825TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.825	0.25	2.2	5.5	0.18	0.012	92	6.5	Yes	No	Consumer	XDF N-4

NCP163BMX275TBG	0.1144	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	2.75	0.25	2.2	5.5	0.095	0.012	92	6.5	Yes	No	Consumer	XDF N-4
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创建于：6/16/2021