



Product Overview

NCP4683: Voltage Regulator, LDO, 300 mA

For complete documentation, see the [data sheet](#)

Product Description

The NCP4683 is a CMOS Linear Voltage Regulator with 300 mA output current capability. The device has high output voltage accuracy, low supply current and high ripple rejection. The NCP4683 is easy to use, with output current fold-back protection circuit included. A Chip Enable function is included to save power by lowering supply current. The line and load transient responses are very good, thus this regulator is suitable for use as a power supply for communication equipment.

Features	Benefits
<ul style="list-style-type: none">Operating Input Voltage Range: 1.4 V to 5.25 VOutput Voltage Range: 0.8 V to 3.6 VOutput Voltage Accuracy: 1%(V_{OUT} > 2 V, T_J = 25°CCurrent Fold Back ProtectionHigh PSRR: 70 dB at 1 kHzLow Dropout Voltage: 250 mV Typ. at 300 mA	<ul style="list-style-type: none">Well suited to battery powered applicationsPlease contact your local office for customized output voltage options

Applications	End Products
<ul style="list-style-type: none">Post Power Supply voltage regulation for processors, FPGA, DSPPoint of Load voltage regulationNoise filtering	<ul style="list-style-type: none">Battery-powered EquipmentNetworking and Communication EquipmentCameras, DVRs, STB and CamcordersHome Appliances

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Max (V)	V _{DO} Typ (V)	I _q Typ (mA)	PSRR (dB)	Noise (μV _{rms})	Package Type
NCP4683DMU12TCG	Pb-free Halide free	Active	Single	Positive	1.2	0.3	6	0.25	0.05	65	65	UDFN-4
NCP4683DMU185TCG	Pb-free Halide free	Active	Single	Positive	1.85	0.3	6	0.25	0.05	65	65	UDFN-4
NCP4683DMU18TCG	Pb-free Halide free	Active	Single	Positive	1.8	0.3	6	0.25	0.05	65	65	UDFN-4
NCP4683DMU285TCG	Pb-free Halide free	Active	Single	Positive	2.85	0.3	6	0.25	0.05	65	65	UDFN-4
NCP4683DMU31TCG	Pb-free Halide free	Active	Single	Positive	3.1	0.3	6	0.25	0.05	65	65	UDFN-4
NCP4683DSQ18T1G	Pb-free Halide free	Active	Single	Positive	1.8	0.3	6	0.25	0.05	65	65	SC-88A-5 / SC-70-5 / SOT-323-5
NCP4683DSQ28T1G	Pb-free Halide free	Active	Single	Positive	2.8	0.3	6	0.25	0.05	65	65	SC-88A-5 / SC-70-5 / SOT-323-5
NCP4683DSQ33T1G	Pb-free Halide free	Active	Single	Positive	3.3	0.3	6	0.25	0.05	65	65	SC-88A-5 / SC-70-5 / SOT-323-5
NCP4683HMU12TCG	Pb-free Halide free	Active	Single	Positive	1.2	0.3	6	0.25	0.05	65	65	UDFN-4
NCP4683HMU185TCG	Pb-free Halide free	Active	Single	Positive	1.85	0.3	6	0.25	0.05	65	65	UDFN-4

For more information please contact your local sales support at www.onsemi.com

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