



Product Overview

NCP699: Linear Voltage Regulator, CMOS LDO, Low Iq and Low IGND, 150 mA, with Enable

For complete documentation, see the data sheet

Product Description

The NCP699 fixed output LDO linear voltage regulator is designed for handheld communication equipment and portable battery powered applications which require low quiescent current. The NCP699 series features an ultra-low quiescent current of 40 uA. Each device contains a voltage reference unit, an error amplifier, a PMOS power transistor, internal resistors for setting output voltage, current limit, and temperature limit protection circuits. The NCP699 has been designed to be used with low cost ceramic capacitors. The device is housed in the micro-miniature TSOP-5 surface mount package. Standard voltage versions are 1.3, 1.4, 1.5, 1.8, 2.5, 2.8, 3.0, 3.1, 3.3, 3.4 and 5.0 V. Other voltages are available in 100 mV steps.

Features	Benefits
<ul style="list-style-type: none">• Very Low Ground Current of 40 uA Typical• Low Dropout Voltage of 340 mV at 150 mA and 3.0 V Vout• Enable Control (Active High, Supports Sub 1-Volt Logic)• Output Voltage Accuracy of 2.0%• Operating Temperature Range of -40C to +85C• Stable with 1 uF Ceramic or Tantalum Capacitors	<ul style="list-style-type: none">• Minimizes power consumption• Extends battery usage. Retains regulation longer

Applications	End Products
<ul style="list-style-type: none">• Cellular Phones• Battery Powered Consumer Products• HandHeld Instruments• Printers and Office Equipment	<ul style="list-style-type: none">• Camcorders and Cameras• printers

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
NCP699SN13T1G	Pb-free Halide free	Active	Single	Positive	1.3	0.15	6	0.8	0.09			TSOP-5 / SOT-23-5
NCP699SN14T1G	Pb-free Halide free	Active	Single	Positive	1.4	0.15	6	0.75	0.09			TSOP-5 / SOT-23-5
NCP699SN15T1G	Pb-free Halide free	Active	Single	Positive	1.5	0.15	6	0.64	0.09			TSOP-5 / SOT-23-5
NCP699SN18T1G	Pb-free Halide free	Active	Single	Positive	1.8	0.15	6	0.57	0.09			TSOP-5 / SOT-23-5
NCP699SN25T1G	Pb-free Halide free	Active	Single	Positive	2.5	0.15	6	0.4	0.09			TSOP-5 / SOT-23-5
NCP699SN28T1G	Pb-free Halide free	Active	Single	Positive	2.8	0.15	6	0.36	0.09			TSOP-5 / SOT-23-5
NCP699SN29T1G	Pb-free Halide free	Active	Single	Positive	2.9	0.15	6	0.35	0.09			TSOP-5 / SOT-23-5
NCP699SN30T1G	Pb-free Halide free	Active	Single	Positive	3	0.15	6	0.34	0.09			TSOP-5 / SOT-23-5
NCP699SN31T1G	Pb-free Halide free	Active	Single	Positive	3.1	0.15	6	0.33	0.09			TSOP-5 / SOT-23-5
NCP699SN33T1G	Pb-free Halide free	Active	Single	Positive	3.3	0.15	6	0.32	0.09			TSOP-5 / SOT-23-5
NCP699SN34T1G	Pb-free Halide free	Active	Single	Positive	3.4	0.15	6	0.3	0.09			TSOP-5 / SOT-23-5
NCP699SN45T1G	Pb-free Halide free	Active	Single	Positive	4.5	0.15	6	0.24	0.09			TSOP-5 / SOT-23-5
NCP699SN50T1G	Pb-free Halide free	Active	Single	Positive	5	0.15	6	0.24	0.09			TSOP-5 / SOT-23-5

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

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