



TLV700xx 200mA LDO Regulator

General Description:

The TLV700xx series of low-dropout (LDO) linear regulators are low quiescent current devices with excellent line and load transient performance. These LDOs are designed for power-sensitive applications. A precision bandgap and error amplifier provides overall 2% accuracy. Low output noise, very high power-supply rejection ratio (PSRR), and low dropout voltage make this series of devices ideal for most battery-operated handheld equipment. All device versions have thermal shutdown and current limit for safety.

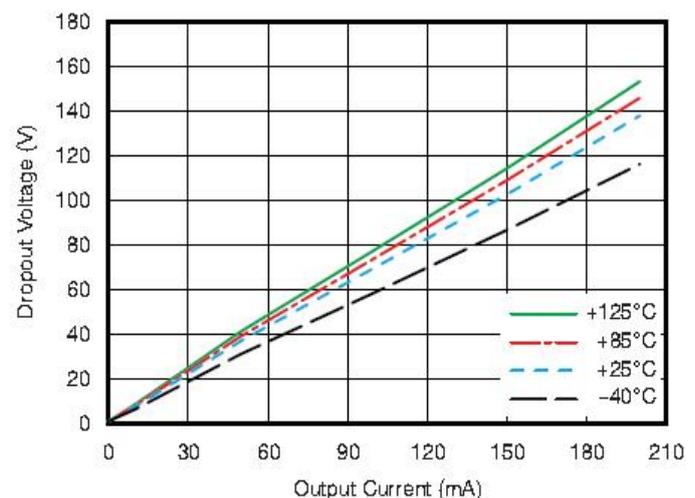


Furthermore, these devices are stable with an effective output capacitance of only 0.1 μF . This feature enables the use of cost-effective capacitors that have higher bias voltages and temperature derating.

Key Features:

- Very Low Dropout: 175 mV at 200 mA
- 2% Accuracy
- Low IQ: 31 μA
- Available in Fixed-Output Voltages from 0.7 V to 4.8 V
- High PSRR: 68 dB at 1 kHz
- Stable with Effective Capacitance of 0.1 μF
- Thermal Shutdown and Overcurrent Protection
- Available in 1,5-mm \times 1,5-mm SON-6, SOT23-5, and SC-70 packages

DROPOUT VOLTAGE vs OUTPUT CURRENT



Applications:

- Wireless Handsets
- Smart Phones, PDAs
- MP3 Players
- ZigBee Networks
- Bluetooth Devices
- Li-Ion Operated Handheld Products
- WLAN and Other PC Add-on Cards

Related Products Information:

Mfr Part #	Farnell #	Newark #	Description
TLV70015DCKT	1778220	50R4437	TLV700xx 200mA LDO Regulator
TLV70015DDCT	1778226	50R4438	TLV700xx 200mA LDO Regulator
TLV70018DCKT	1778221	50R4439	TLV700xx 200mA LDO Regulator
TLV70018DDCT	1778227	50R4440	TLV700xx 200mA LDO Regulator
TLV70028DCKT	1778222	50R4441	TLV700xx 200mA LDO Regulator
TLV70028DDCT	1778228	50R4442	TLV700xx 200mA LDO Regulator
TLV70030DCKT	1778223	50R4443	TLV700xx 200mA LDO Regulator
TLV70030DDCT	1778229	50R4444	TLV700xx 200mA LDO Regulator
TLV70033DCKT	1781312	50R4445	TLV700xx 200mA LDO Regulator
TLV70033DDCT	1778230	50R4446	TLV700xx 200mA LDO Regulator