

# TSL9A12 Series

## Nanopower $I_Q$ 600nA

### LDO Linear Regulator

The TSL9A12 series of ultra-low quiescent current regulators features low dropout voltage and low current in the standby mode with 600nA quiescent current at no load. It is ideally suited for standby micro-control-unit systems, especially for always-on applications like portable, and other battery-operated systems. The TSL9A12 series retains all the features that are common to low dropout regulators including a low dropout PMOS pass device, short circuit protection and thermal shutdown.



Official Website



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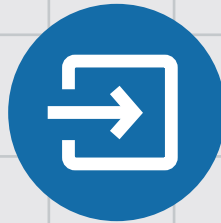


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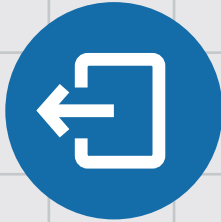
For more information: [marketing@ts.com.tw](mailto:marketing@ts.com.tw)

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#### FEATURES



INPUT VOLTAGE  
UP TO **6V**



FIXED OUTPUT VOLTAGES  
**1.8V & 3.3V**

**± 2%**

OUTPUT VOLTAGE  
ACCURACY

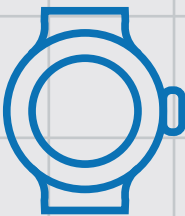
**600nA**

ULTRA-LOW  
QUIESCENT CURRENT

#### APPLICATIONS



WIRELESS  
COMMUNICATION  
EQUIPMENT



MOBILE  
& WEARABLE

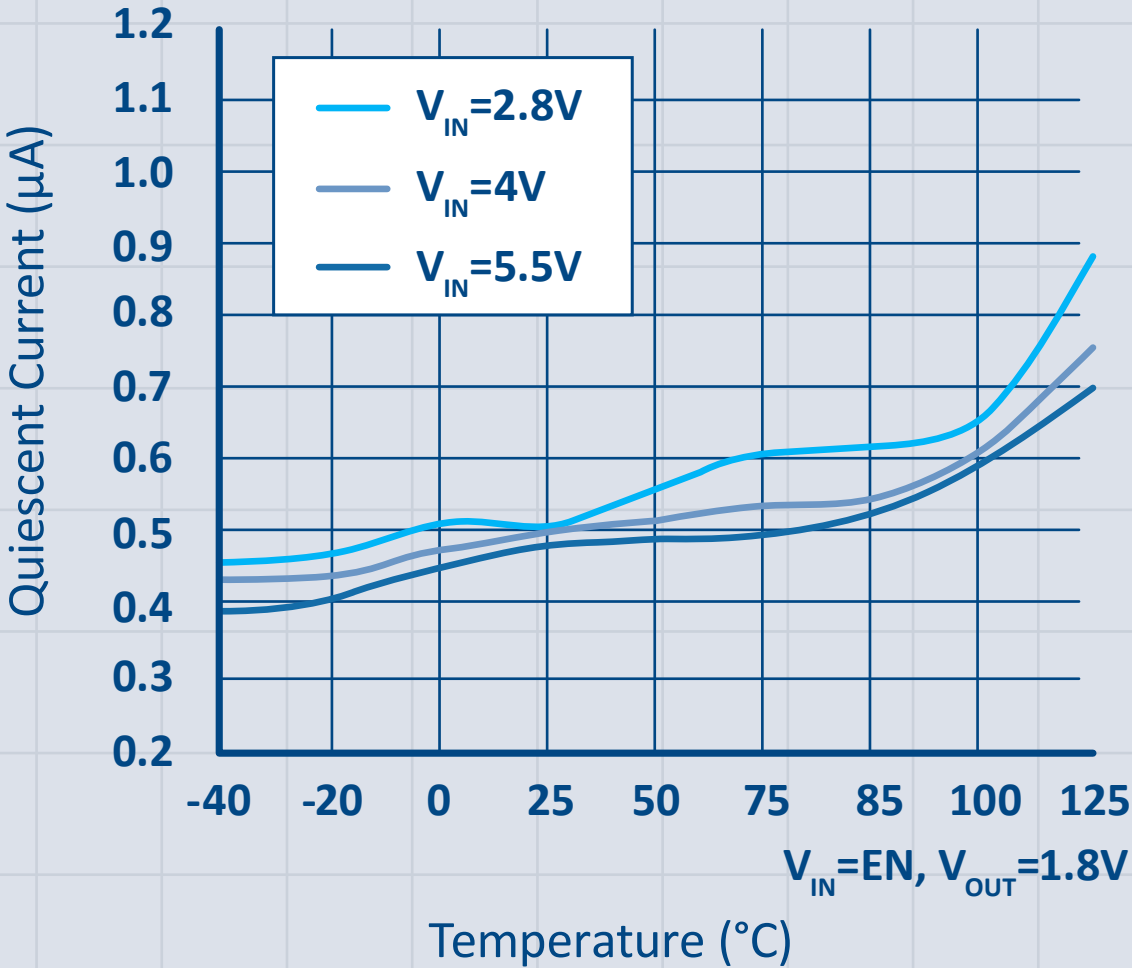
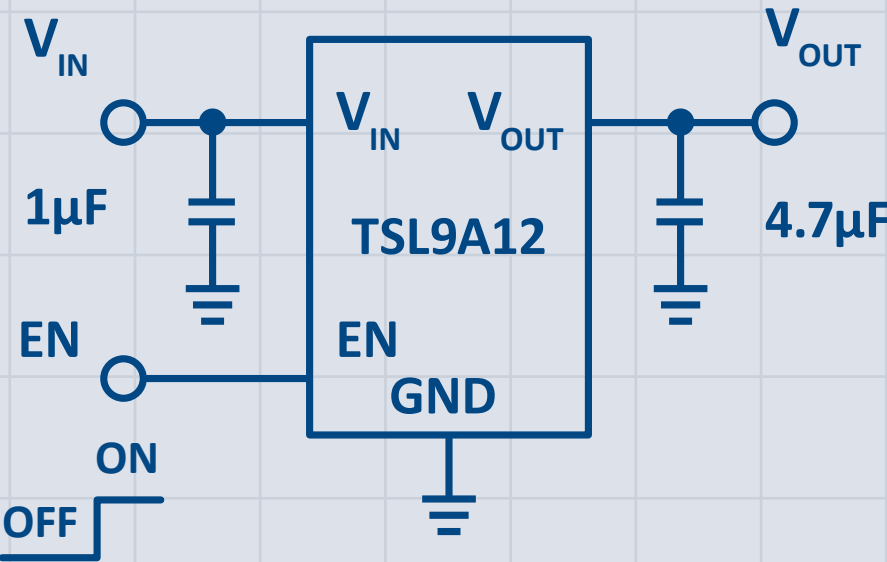


LOW POWER  
MICROCONTROLLERS

#### SPECIFICATION

Part number	Package	V <sub>IN</sub> Max. (V)	V <sub>OUT</sub> (V)	I <sub>OUT</sub> (mA)	I <sub>Q</sub> Typ. (μA)	I <sub>R</sub> Max. (μA)	I <sub>DROP</sub> Max. (mA)	Enable
TSL9A12V18CX	SOT-23	6	1.8	200	0.6	1.2	670@ 200mA	No
TSL9A12V18CX5	SOT-25							Yes
TSL9A12V33CX	SOT-23	6	3.3	200	0.6	1.2	575@ 200mA	No
TSL9A12V33CX5	SOT-25							Yes

Typical Application Circuit



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