

TPS61088RHLR Texas Instruments

As the professional supplier, we would like to provide you high quality XT-ShenZhen® TPS61088RHLR Texas Instruments. TPS61088RHLR Texas Instruments is a high-power density fully integrated synchronous boost converter designed and developed by Texas Instruments (TI), one of the world's largest integrated circuit chip manufacturers. Due to its small size and good performance, it is widely used in the field of portable electronic products. Welcome new and old customers to continue to cooperate with XT-ShenZhen® to create a better future together! Every request from customers is being replied within 24

hours.

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Product description

The TPS61088RHLR Texas Instruments is a fully integrated synchronous boost converter. Equipped with an 11mΩ power switch and a 13mΩ rectifier switch, it provides a highly efficient, small form factor solution for portable systems.

With a wide input voltage range of 2.7V to 12V, the TPS61088RHLR Texas Instruments supports applications powered by single or two-cell lithium batteries.

The TPS61088RHLR uses an adaptive constant off-time peak current control topology to regulate the output voltage. Under medium to heavy load conditions, the TPS61088RHLR operates in pulse width modulation (PWM) mode. At light loads, the mode pin allows the device to select one of two operating modes. One is a pulse width modulation (PFM) mode that improves efficiency; The other is a forced PWM that avoids application problems due to lower switching frequencies Mode. The switching frequency in PWM mode can be adjusted via an external resistor from 200kHz to 2.2MHz

The TPS61088RHLR also implements programmable soft-start and adjustable switching peak current limiting. In addition, the device provides 13.2V output overvoltage protection, cycle-by-cycle overcurrent protection, and thermal shutdown protection.

Product features

Shenzhen Zhen Rong Era Supply Chain Management Co., Ltd.

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- 2.7V to 12V input voltage range
- 4.5V to 12.6V output voltage range
- 10A switching current
- Efficiency up to 91% (at VIN = 3.3V, VOUT = 9V, and IOU = 3 A).
- Under light load conditions, PFM mode and forced PWM mode are available
- During shutdown, the current flowing into the VIN pin is 1.0μA
- Resistor-programmable switch peak current limit
- Adjustable switching frequency: 200kHz to 2.2MHz
- Programmable soft-start
- 13.2V Output Overvoltage Protection
- Cycle-by-cycle overcurrent protection
- Thermal shutdown

Product parameters

Technical parameters	Output voltage	4.5V-12.6V
	Output current	10A
	Quiescent current	110 μA
	Input voltage (Min).	2.7V
	Input voltage (Max).	12V
	Operating temperature (Max).	85°C
	Operating temperature (Min).	-40°C
	Number of pins	20
	encapsulation	VQFN-20
	Packaging	Tape & Reel (TR)

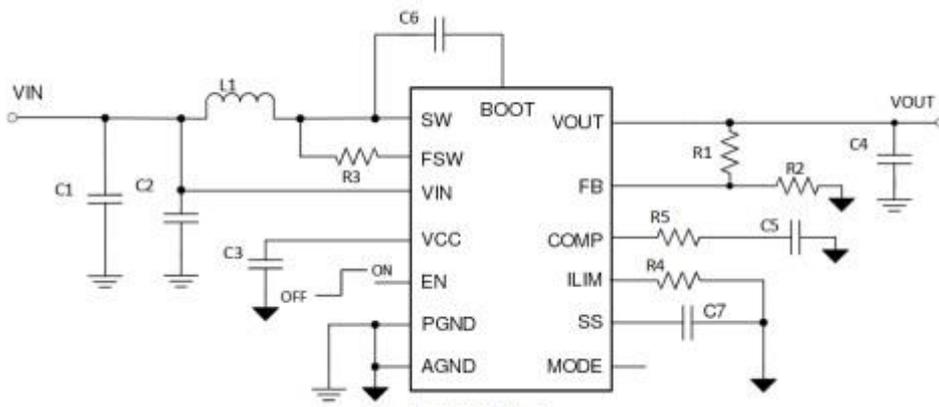
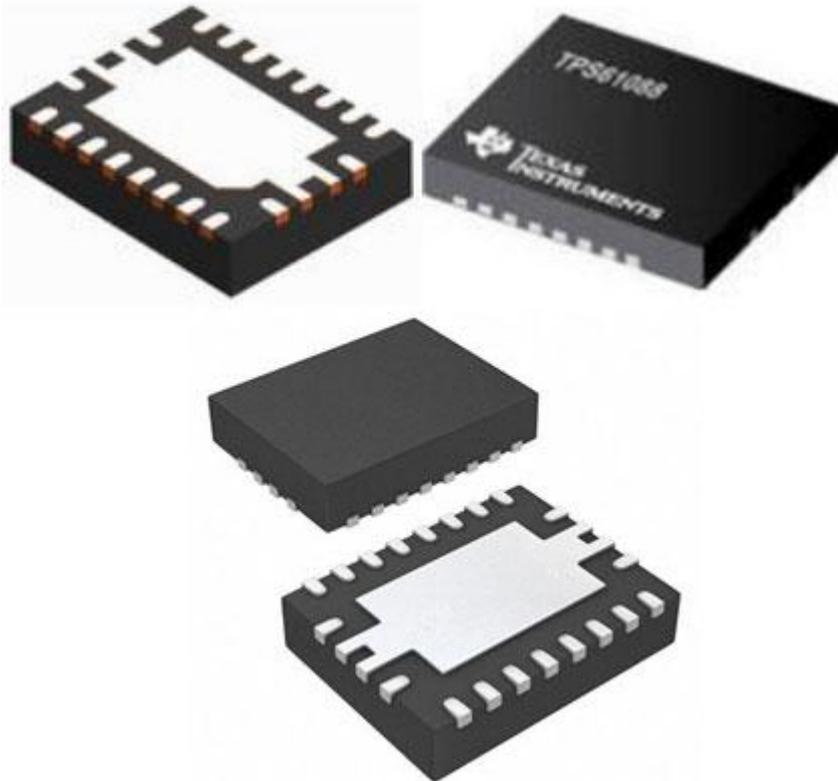
Product images

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FAQ

Q: Where is your company?

A: Our company is registered in Shenzhen, China.

Q: How long do you need to give me a quote?

A: On weekdays, after receiving your information, a quote will be sent to you within the same day.

Q: How do you pack your goods?

A: Each of our shipments is vacuum vacuumed and packed. Make sure there is no damage during shipping.

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