Evaluation Board for LM25575, 42V, 1.5A Step-Down Switching Regulator

(ACTIVE) LM25575EVAL

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Key Document

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Description

The LM25575 evaluation board is designed to provide the design engineer with a fully functional power converter based on Emulated Current Mode Control to evaluate the LM25575 regulator IC. The evaluation board provides a 5V output with a 1.5A current capability. The ultra-wide input voltage ranges from 7V to 42V. The design operates at 300kHz, a good compromise between conversion efficiency and solution size. The printed circuit board consists of 2 layers of 2 ounce copper on FR4 material with a thickness of 0.06 inches. This application note contains the evaluation board schematic, Bill-of-Materials (BOM) and a quick setup procedure. Refer to the LM25575 datasheet for complete circuit design information.

Features

- Integrated 42V, 330Wm N-Channel MOSFET
- Ultra-wide input voltage range from 6V to 42V
- Adjustable output voltage as low as 1.225V
- 1.5% feedback reference accuracy
- Operating frequency adjustable between 50kHz and 1MHz with single resistor
- Master or slave frequency synchronization
- Adjustable soft-start
- Emulated current mode control architecture
- Wide bandwidth error amplifier
- Built-in protection
- TSSOP-16EP (Exposed Pad) Package

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Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status	Lead-Free	RoHS
LM25575EVAL: Evaluation Board for LM25575, 42V, 1.5A Step-Down Switching Regulator	$49.00(USD) In Stock Typically Ships in 1 to 3 Business Days Buy from TI	Pricing may vary. Buy from distributor	ACTIVE	No	No

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Part Number	Name	Product Family
LM25575	SIMPLE SWITCHER® 42V, 1.5A Step-Down Switching Regulator	Converter (Integrated Switch)
LM25575-Q1	SIMPLE SWITCHER® 42V, 1.5A Step-Down Switching Regulator	Converter (Integrated Switch)

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