



# LM2594APDBCKGEVB: Step-Down Switching Regulator Evaluation Board

The LM2594 regulator is circuit ideally suited for easy and convenient design of a step down switching regulator (buck converter). It is capable of driving a 0.5 A load with excellent line and load regulation. This device is available in adjustable output version and it is internally compensated to minimize the number of external components to simplify the power supply design. Demoboard size: 28mm x 25mm



## Features and Applications

### Features

- Adjustable Output Voltage Range 1.23 V 37 V
- Guaranteed 0.5 A Output Load Current
- Wide Input Voltage Range up to 40 V
- 150 kHz Fixed Frequency Internal Oscillator
- TTL Shutdown Capability
- Low Power Standby Mode, typ 50  $\mu$ A
- Thermal Shutdown and Current Limit Protection
- Internal Loop Compensation
- Moisture Sensitivity Level (MSL) Equals 1
- PbFree Packages are Available

### Applications

- Simple HighEfficiency StepDown (Buck) Regulator
- Efficient PreRegulator for Linear Regulators
- OnCard Switching Regulators
- Positive to Negative Converter (BuckBoost)
- Negative StepUp Converters
- Power Supply for Battery Chargers

## Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
LM2594APDBCKGEVB	Active	Pb-free	Step-Down Switching Regulator Evaluation Board	LM2594DADJR2G , LM2594DADJR2G , LM2594PADJG	<a href="#">» Contact Local Sales Office</a> <a href="#">» Inventory</a>

## Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	LM2594APDBCKGEVB Bill of Materials ROHS Compliant	LM2594APDBCKGEVB_BOM_ROHS.PDF - 23 KB	3
Eval Board: Gerber	LM2594APDBCKGEVB Gerber Layout Files (Zip Format)	LM2594APDBCKGEVB_GERBER.ZIP - 19.0 KB	1
Eval Board: Schematic	LM2594APDBCKGEVB Schematic	LM2594APDBCKGEVB_SCHEMATIC.PDF - 10.0 KB	1
Eval Board: Test Procedure	LM2594APDBCKGEVB Test Procedure	LM2594APDBCKGEVB_TEST_PROCEDURE.PDF - 165.0 KB	1
Video	Step-Down Switching Regulator Evaluation Board - LM2594ADPBCKEVB	WVD17652/D	

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