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# AS13985

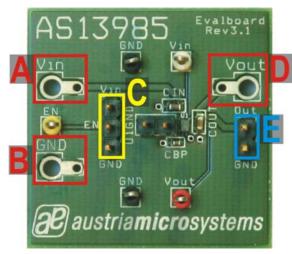
# **Evaluation Board Application Note**





## **General Description**

#### **Board Description**



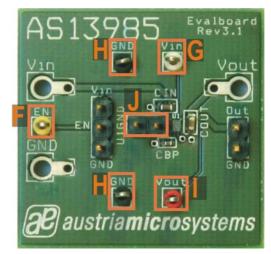


Figure 1: Board Description - Connector

Figure 2: Board Description - Measurement Points

## **Connector Description**

Label	Jumper	Description	Info	
Α	Vin	Power Supply Connectors for Vin and	+2.5V to +5.5V	
В	GND	Ground.		
С	Vin / GND	EN Enable Jumper	1/ON = The AS13985 is on.  0/OFF = The AS13985 is off and the current into Vin is ≤1µA (typ).	
D	Vout	Power Output Connector	Regulated Output Voltage	
E	Out, GND	Power Output and Ground Connector	Additional Connectors to apply a load	

#### **Measurement Points**

Label	Jumper	Description	Info
F	EN	Enable Pin Connector <sup>1</sup>	
G	Vin	Power Supply Connectors for Vin and	
Н	GND	Ground.	Measurement Points
I	Vout	Power Output Connector	
J	U1GND	IQ Quiescent Current Connector <sup>2</sup>	

## **Operational sequence**

- 1. If not present get the datasheet for the AS13985 from www.austriamicrosystems.com. Drive the IC on the evaluation board only with the recommended settings and values as described in the datasheet.
- 2. Connect a +2.5V to +5.5V power supply (Vin "A" and GND "B").
- 3. Perform measurements at the measurement points.

Have fun using the Evaluation Board. If there are questions do not hesitate to contact us. See contact information at the end of the application note.

<sup>&</sup>lt;sup>1</sup> If the EN measurement point F is used as a connector, be sure that the EN jumper C is completely removed. Otherwise the supply source could be damage through a short circuit.

For normal operation jumper J has to be always set. For the measurement of the quiescent current remove the jumper and connect an analyzer

## Layout of demoboard

## **Board schematics and layout**

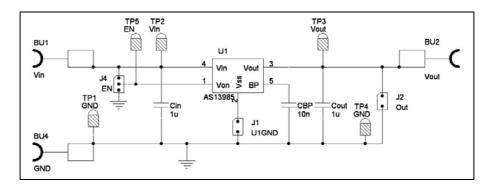
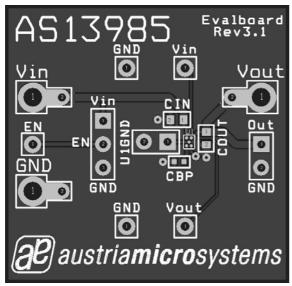


Figure 3: Schematic



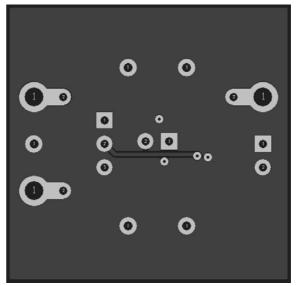


Figure 4: Top View

Figure 5: Bottom View

## **Assembly List**

Label	Info	Туре	Manufacturer
Cin, Cout	1μF, 0603, X7R	GRM188R71C105	- Murata
Cbyp	10nF, 0402, X7R	GRM155R71H103	iviurata



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