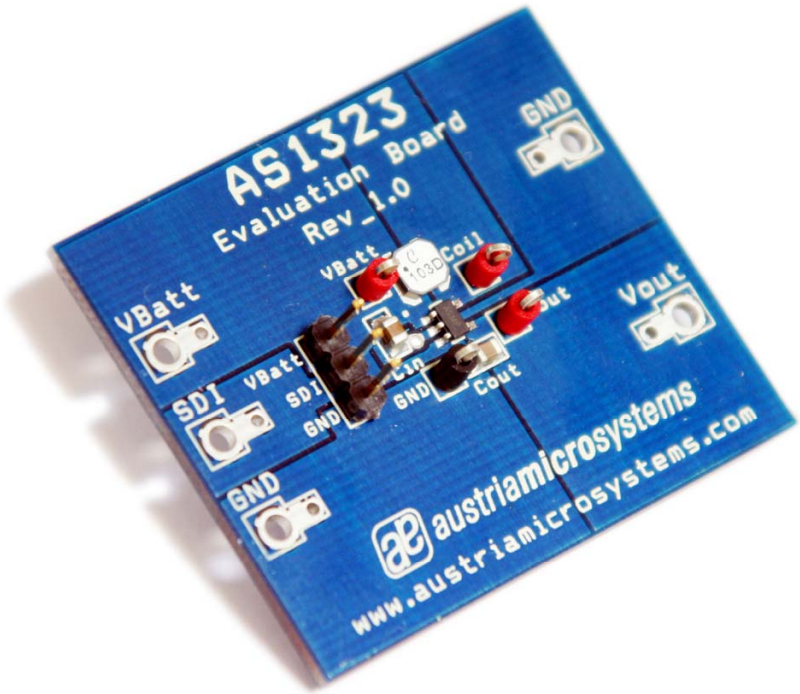
AS1323

Evaluation Board Application Note



General Description

Board Description

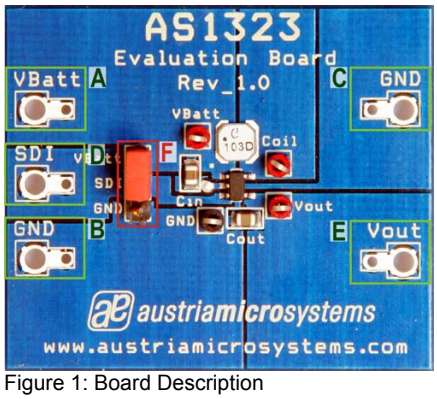


Figure 1: Board Description

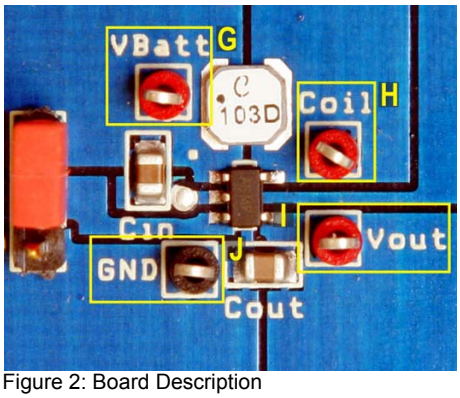


Figure 2: Board Description

Connector Description

Label	Name	Description	Info
A	**VBatt**	Input Voltage	Input voltage ranging from 0.7V to 5V. GND "**B**" & "**C**" are connected together.
B	**GND**	Ground	
C	**GND**	Ground	
D	**SDI**	Shutdown Input	0: Shutdown mode 1: Normal operating mode
D	**VOUT**	Power Output Connector	

Jumper Description

Label	Name	Description	Info
F	**VBatt** **SDI** **GND**	Enable Jumper	Normal operating mode Use connector SDI "**D**" for shutdown Shutdown mode

Measurement Points Description

Label	Name	Description	Info
J	**GND**	Power Supply Connectors for VBATT and Ground.	
G	**VBatt**		
H	**Coil**	External Conductor	
I	**Vout**	Power Output Connector	

Operational sequence

This evaluation board comes with the AS1323 soldered on. The output voltage is set to the default 2.7, 3.0 or 3.3V depending on the evaluation board ordered. For information which part is soldered on your board please see the ordering information in the datasheet for the chip marking.

1. If not present get the datasheet for the AS1323 from www.austriamicrosystems.com. Drive the IC on the Demoboard only with the recommended settings and values as described in the datasheet.
2. Connect a +0.7V to 2V power supply (VBatt **"A"** and GND **"B"**).
3. Perform measurements at the measurement points **"G"** to **"J"**.

If there are questions do not hesitate to contact us. See contact information at the end of the application note.

Layout of evaluation board

Board schematics and layout

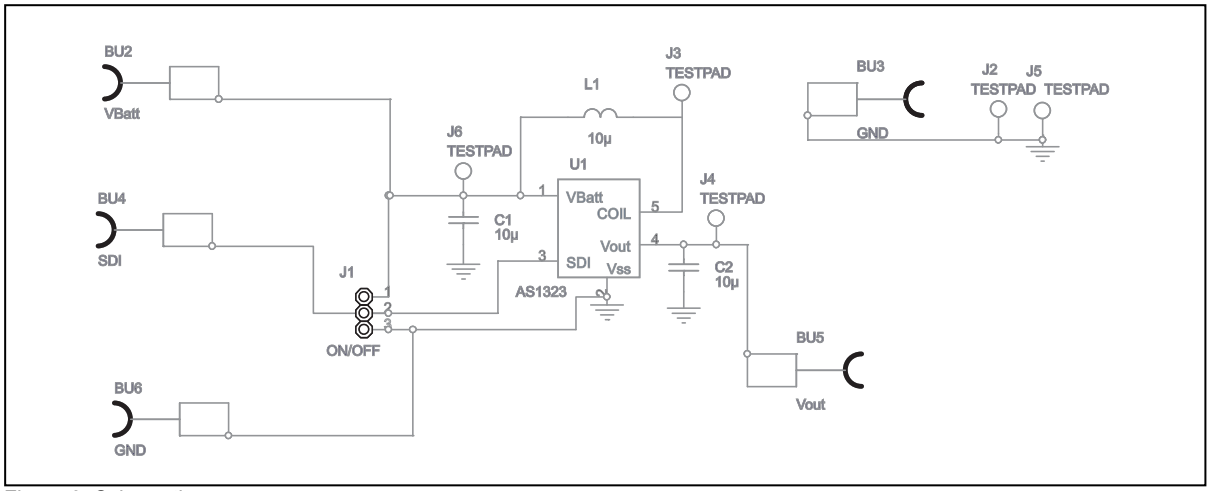


Figure 3: Schematics

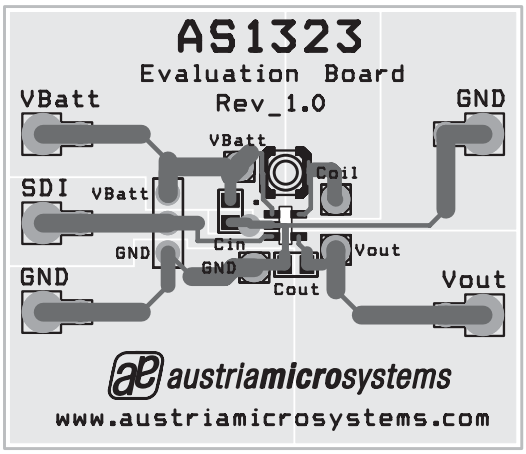


Figure 4: Top view

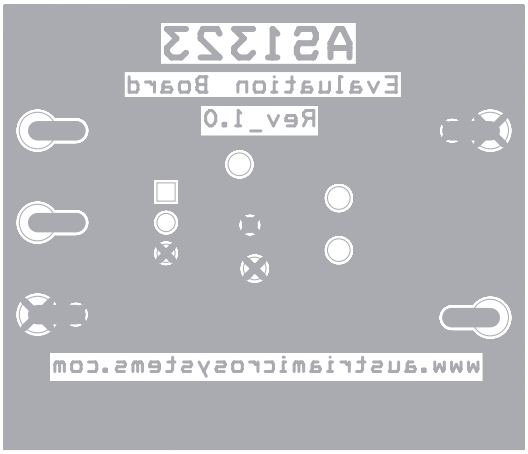


Figure 5: Bottom view

Assembly List

Label	Info	Type	Manufacturer
CIN	10V 10uF X7R 10%	GRM21BR71A106KE51	Murata
COUT	10V 10uF X7R 10%	GRM21BR71A106KE51	Murata
L1	10µH, 350mΩ, 1.3A	LPS4012-103MLB	Coilcraft

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