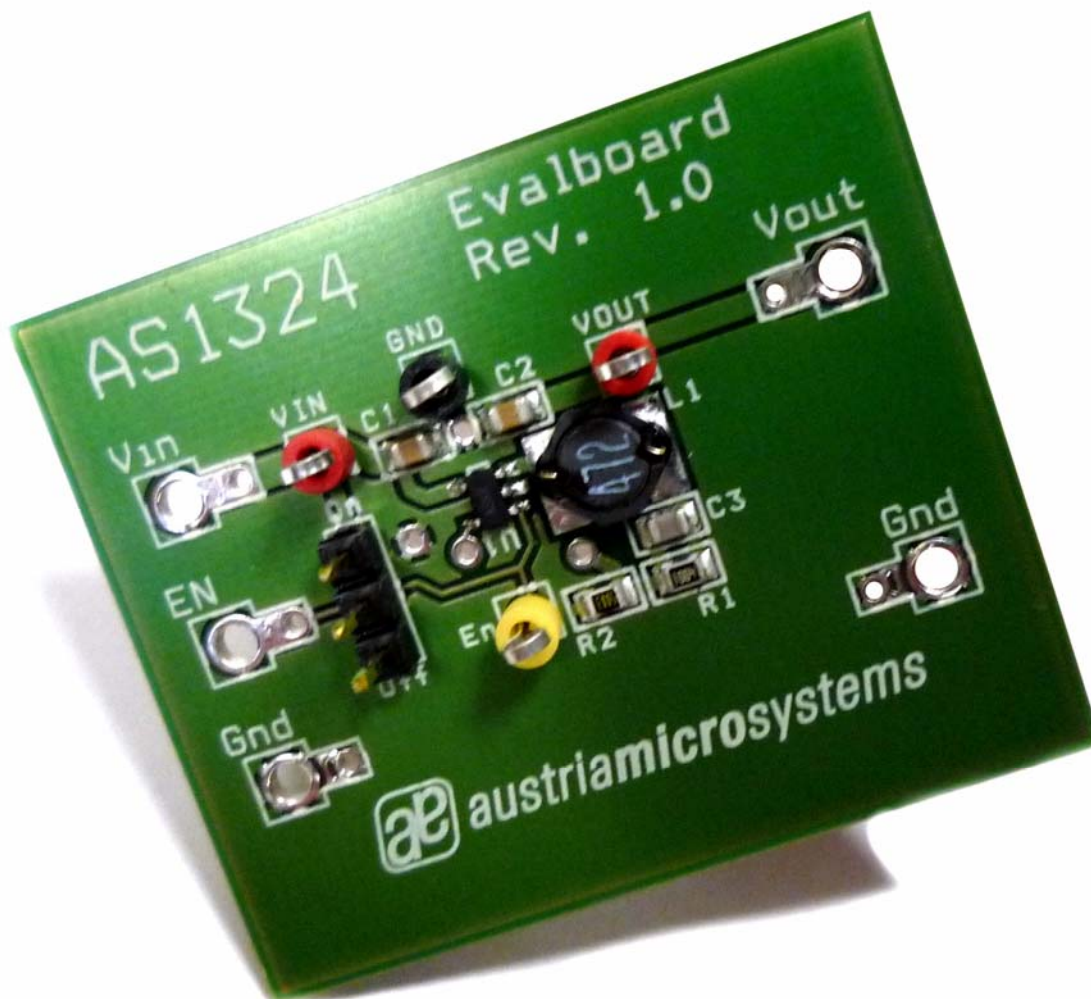


AS1324

Evaluation Board Application Note



General Description

Board Description

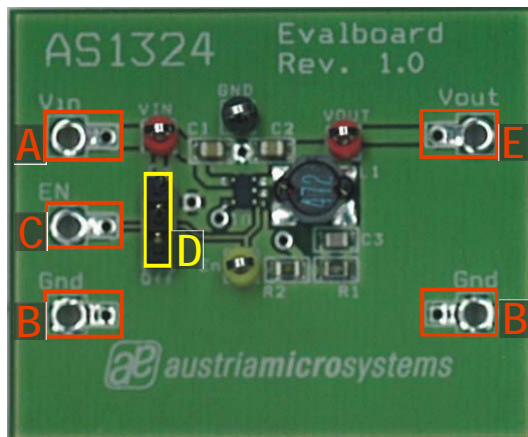


Figure 1: Board Description - Connectors

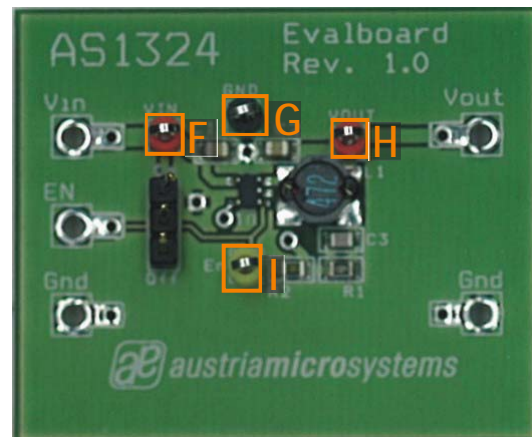




Figure 2: Board Description – Measurement Points

Connector Description

Label	Name	Description	Info
A	Vin	Power Supply Connectors for Vin and Ground.	+2.7V to +5.5V
B	GND		
C	EN	Active-High Enable Input Connector	 1/ON = The AS1324 is on.  0/OFF = The AS1324 is off and the current into Vin is $\leq 5\mu\text{A}$ (typ).
D	On / Off	EN Enable Jumper ¹	
E	Vout	Power Output Connector	Fixed Output Voltage of 1.8V

Measurement Points Description

Label	Jumper	Description	Info
F	Vin	Power Supply Connectors for Vin and Ground.	Measurement Points
G	GND		
H	Vout	Power Output Connector for Vout	
I	EN	Active-High Enable Connector	

Operational sequence

This evaluation board comes with the AS1324 soldered on. The output voltage is set to 1.8V. For more information which other output voltages are available please see the ordering information in the datasheet.

1. If not present get the datasheet for the [AS1324](http://www.austriamicrosystems.com) 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 +2.7V to +5.5V power supply (Vin “A” and GND “B”).
3. Perform measurements at the measurement points.

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

¹ If the EN Input Connector C is used, be sure that the EN jumper D is completely removed. Otherwise the supply source could be damage through a short circuit.

Layout of evaluation board

Board schematics and layout

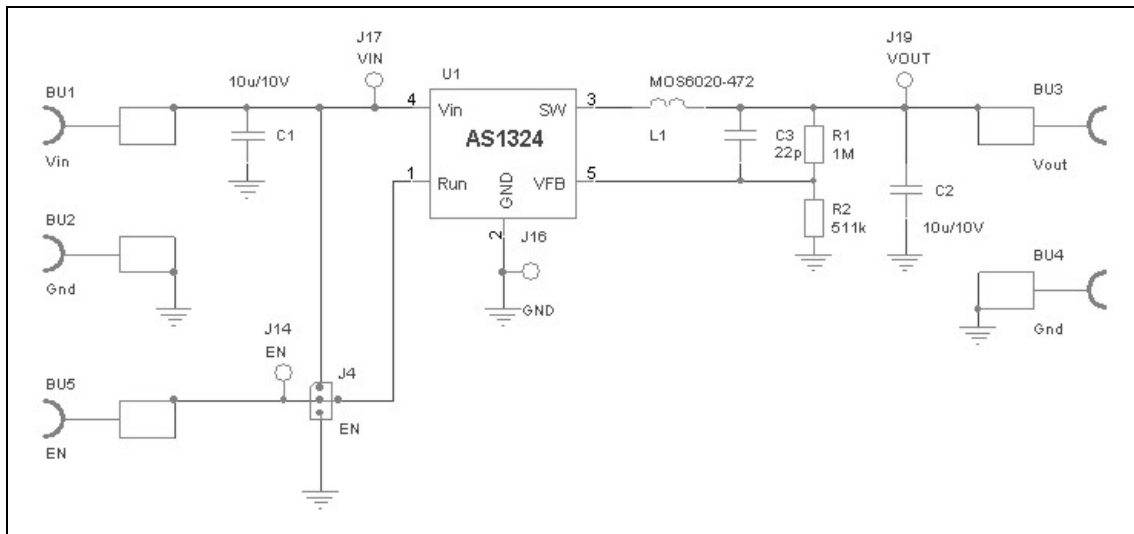


Figure 3: Schematics

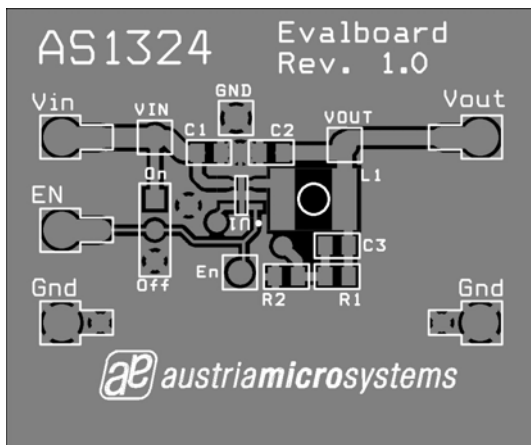


Figure 4: Top view

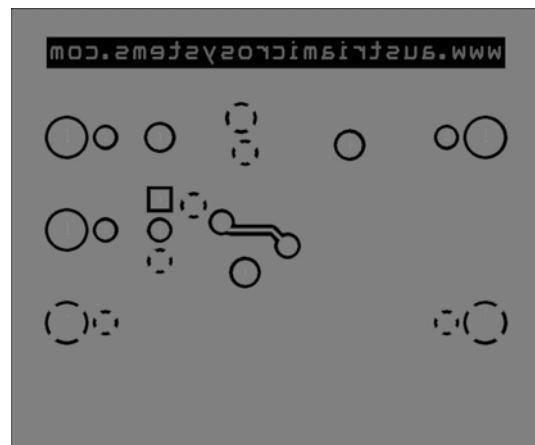


Figure 5: Bottom view

Assembly List

Label	Info	Type	Manufacturer
C1, C2	16V 10µF 0805 X7R 10%	GRM21BR71A106KE51	Murata
C3	10V 22pF 0805 X7R 10%	GRM216R71A220KE51	
L1	4.7µH, 50mΩ, 1820mA	MOS6020-472MLC	Coilcraft
R1	1MΩ 0805 1%		
R2	511kΩ 0805 1%		

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