

AS1324

Evaluation Board Application Note



General Description

Board Description

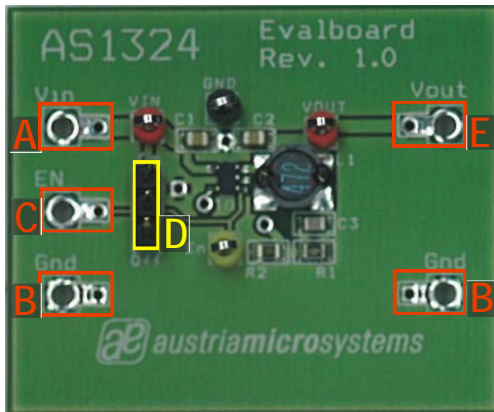


Figure 1: Board Description - Connectors

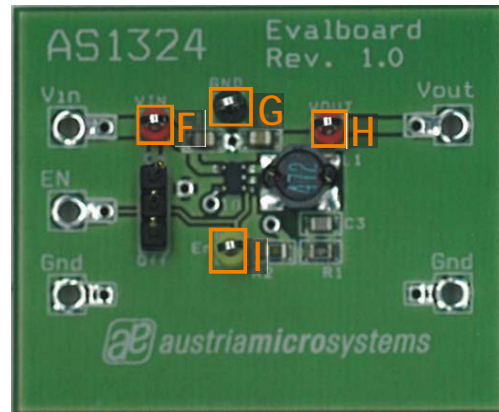




Figure 2: Board Description – Measurement Points

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.
D	On / Off	EN Enable Jumper ¹	 0/OFF = The AS1324 is off and the current into Vin is ≤5μA (typ).
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 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 damaged through a short circuit.

Layout of evaluation board

Board schematics and layout

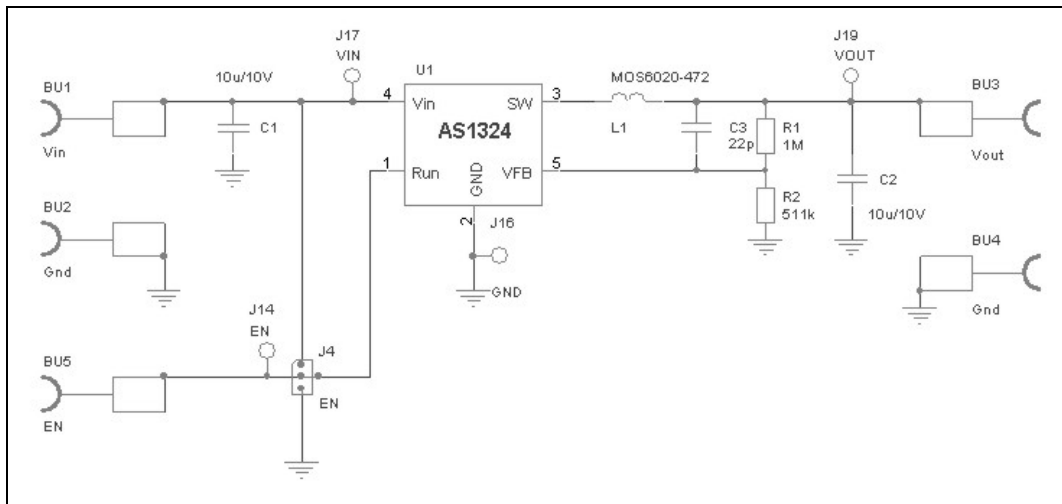


Figure 3: Schematics

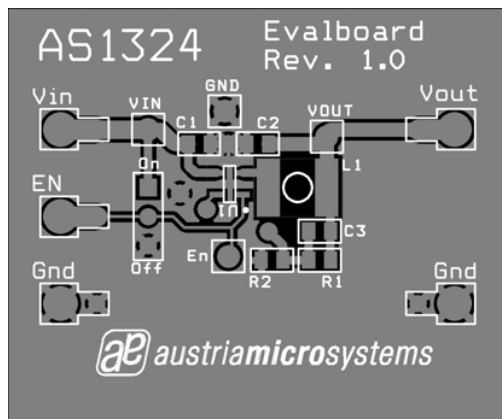


Figure 4: Top view

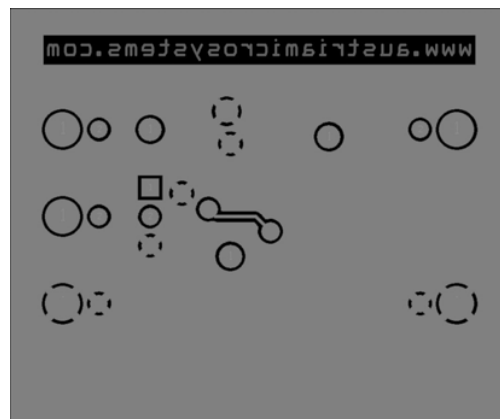


Figure 5: Bottom view

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%		

Copyright

Copyright © 1997-2009, austriamicrosystems AG, Schloss Premstaetten, 8141 Unterpremstaetten, Austria-Europe. Trademarks Registered ®. All rights reserved. The material herein may not be reproduced, adapted, merged, translated, stored, or used without the prior written consent of the copyright owner.

All products and companies mentioned are trademarks or registered trademarks of their respective companies.

Disclaimer

Devices sold by austriamicrosystems AG are covered by the warranty and patent indemnification provisions appearing in its Term of Sale. austriamicrosystems AG makes no warranty, express, statutory, implied, or by description regarding the information set forth herein or regarding the freedom of the described devices from patent infringement. Austriamicrosystems AG reserves the right to change specifications and prices at any time and without notice. Therefore, prior to designing this product into a system, it is necessary to check with austriamicrosystems AG for current information.

This product is intended for use in normal commercial applications. Applications requiring extended temperature range, unusual environmental requirements, or high reliability applications, such as military, medical life-support or lifesustaining equipment are specifically not recommended without additional processing by austriamicrosystems AG for each application. For shipments of less than 100 parts the manufacturing flow might show deviations from the standard production flow, such as test flow or test location.

The information furnished here by austriamicrosystems AG is believed to be correct and accurate. However, austriamicrosystems AG shall not be liable to recipient or any third party for any damages, including but not limited to personal injury, property damage, loss of profits, loss of use, interruption of business or indirect, special, incidental or consequential damages, of any kind, in connection with or arising out of the furnishing, performance or use of the technical data herein. No obligation or liability to recipient or any third party shall arise or flow out of austriamicrosystems AG rendering of technical or other services.



Contact Information

Headquarters

austriamicrosystems AG
A-8141 Schloss Premstätten, Austria
T. +43 (0) 3136 500 0
F. +43 (0) 3136 5692

For Sales Offices, Distributors and Representatives, please visit:
<http://www.austriamicrosystems.com/contact-us>