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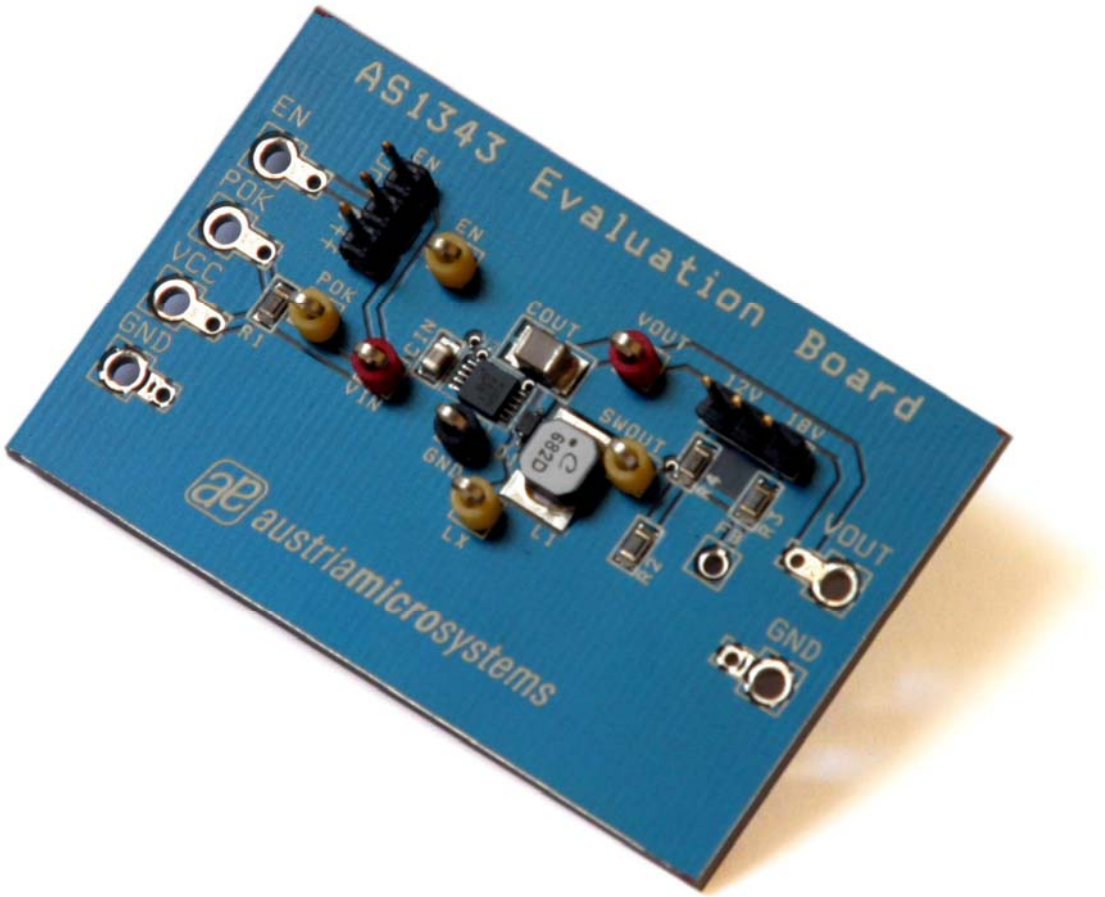
AS1343

Evaluation Board Application Note



General Description

Board Description

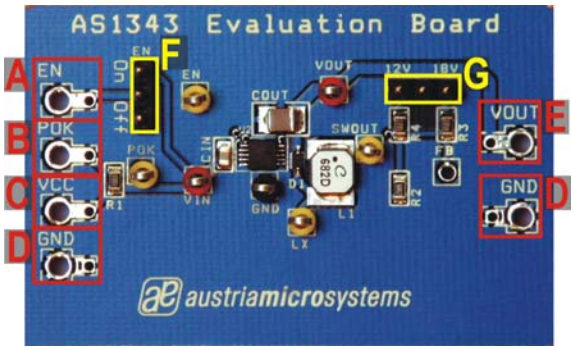


Figure 1: Board Description – Connector

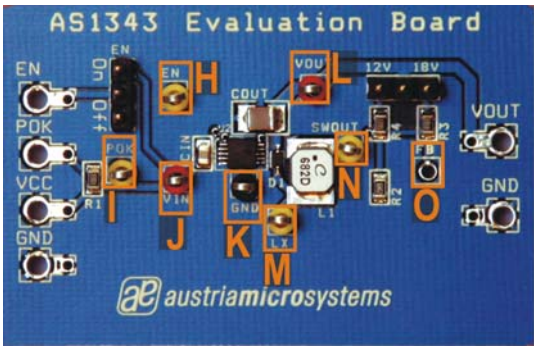


Figure 2: Board Description – Measurements Points

Connector Description

Label	Name	Description	Info
A	**EN**	Enable Input Connector[1]	
B	**POK**	Power-OK Signal	
C	**Vcc**	Power Supply Connectors for Vcc and GND.	Input voltage ranging from 0.9V to 3.6V
D	**GND**		
E	**Vout**	Power Output Connector	Vout = 12V or 18V

Jumper Description

Label	Name	Description	Info	
F	**On / Off**	Enable Jumper[1]		ON = The AS1343 is on. OFF = The AS1343 is off and the current into Vin is ≤1µA (typ).
G	**12V / 18V**	Output Voltage Selection		12V = Fixed Output Voltage 12V 18V = Fixed Output Voltage 18V

Measurement Points Description

Label	Name	Description	Info
H	**EN**	Enable pin	Measurement Points
I	**POK**	Power-OK Signal	
J	**Vin**	Power Supply Vcc and GND.	
K	**GND**		
L	**Vout**	Power Output Voltage	
M	**LX**	External Inductor	
N	**SWout**	Shutdown Disconnect Switch Out	
O	**FB**	Feedback pin	

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

Operational sequence

This Evaluation Board comes with the AS1343.

1. If not present get the datasheet for the AS1343 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 0.9V to 3.6V power supply (Vcc **"C"** and GND **"D"**).
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.

Layout of Evaluation Board

Board schematics and layout

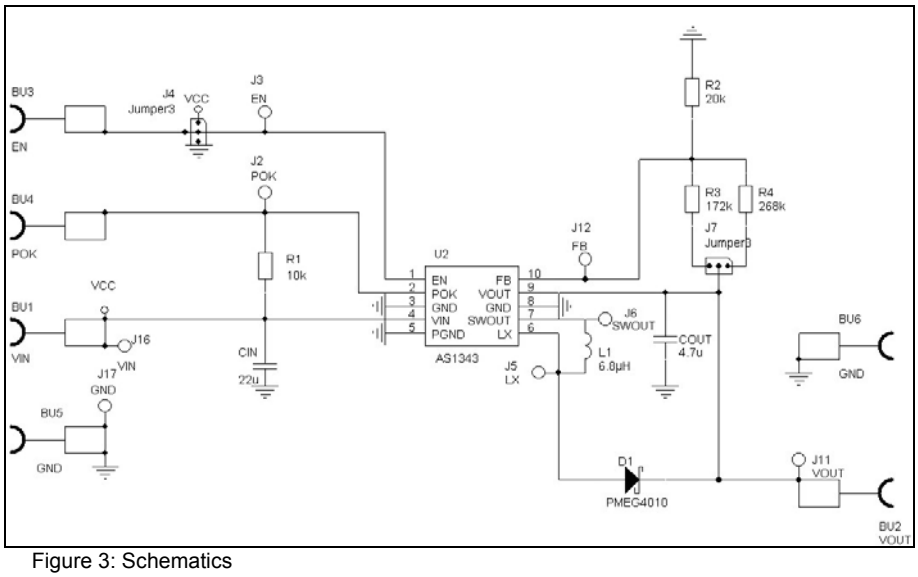


Figure 3: Schematics

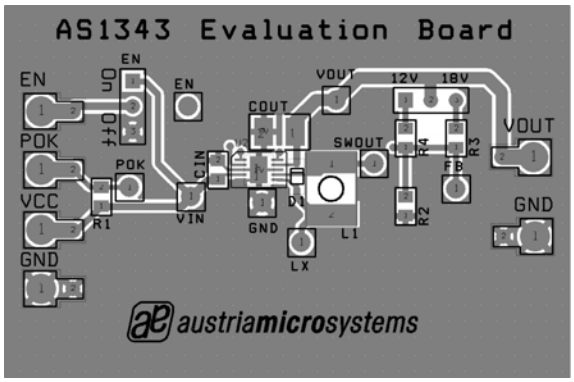


Figure 4: Top view

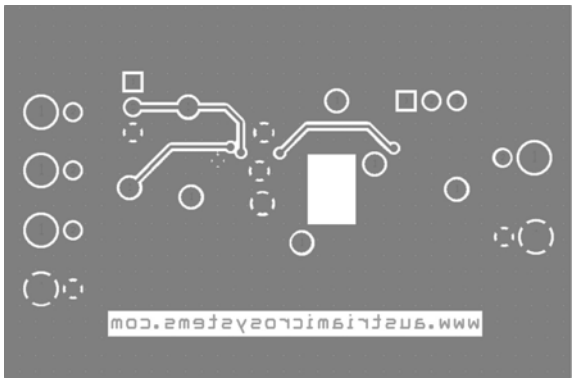


Figure 5: Bottom view

Assembly List

Label	Info	Type	Manufacturer
Cin	22µF, 6.3V, 0805, X5R	GRM21BR60J226ME39L	Murata
Cout	4.7µF, 50V, 1210, X7R	GRM32ER71H475KA88	
L1	6.8µH, 1.7A, 0.099Ω	LPS5030-682MCC	Coilcraft

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