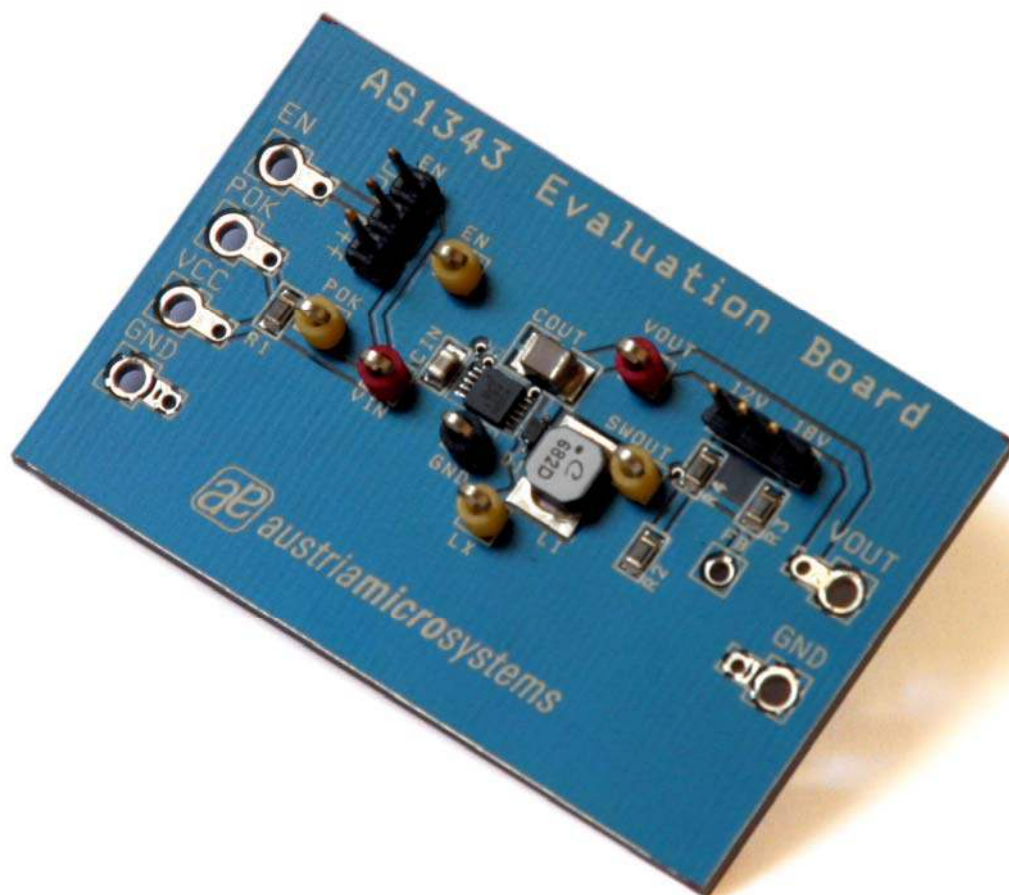


AS1343

Evaluation Board Application Note



General Description

Board Description

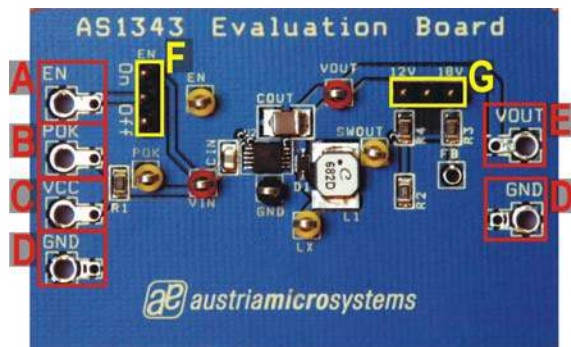


Figure 1: Board Description – Connector

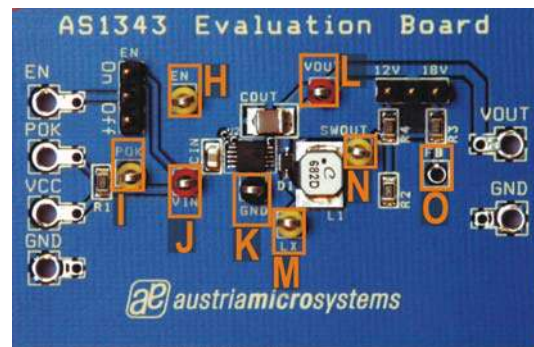






Figure 2: Board Description – Measurements Points

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 | Input voltage ranging from 0.9V to 3.6V |
| D | GND | 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 $\leq 1\mu\text{A}$ (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 damaged 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

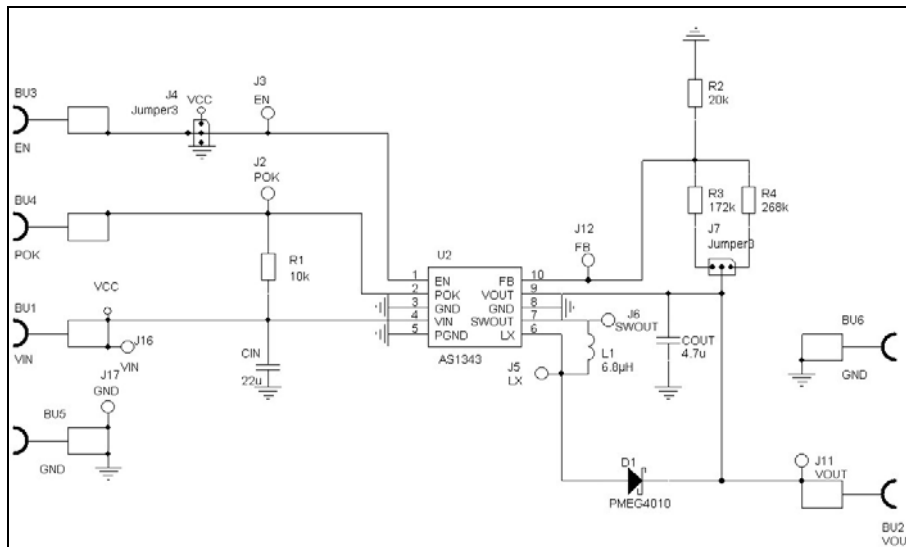


Figure 3: Schematics

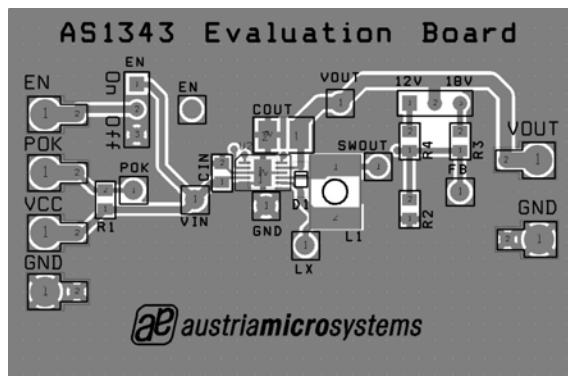


Figure 4: Top view

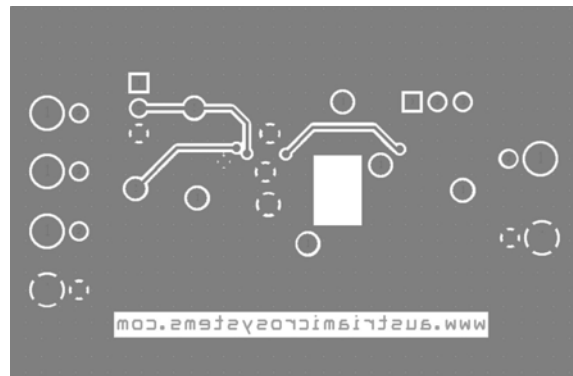


Figure 5: Bottom view

Assembly List

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

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