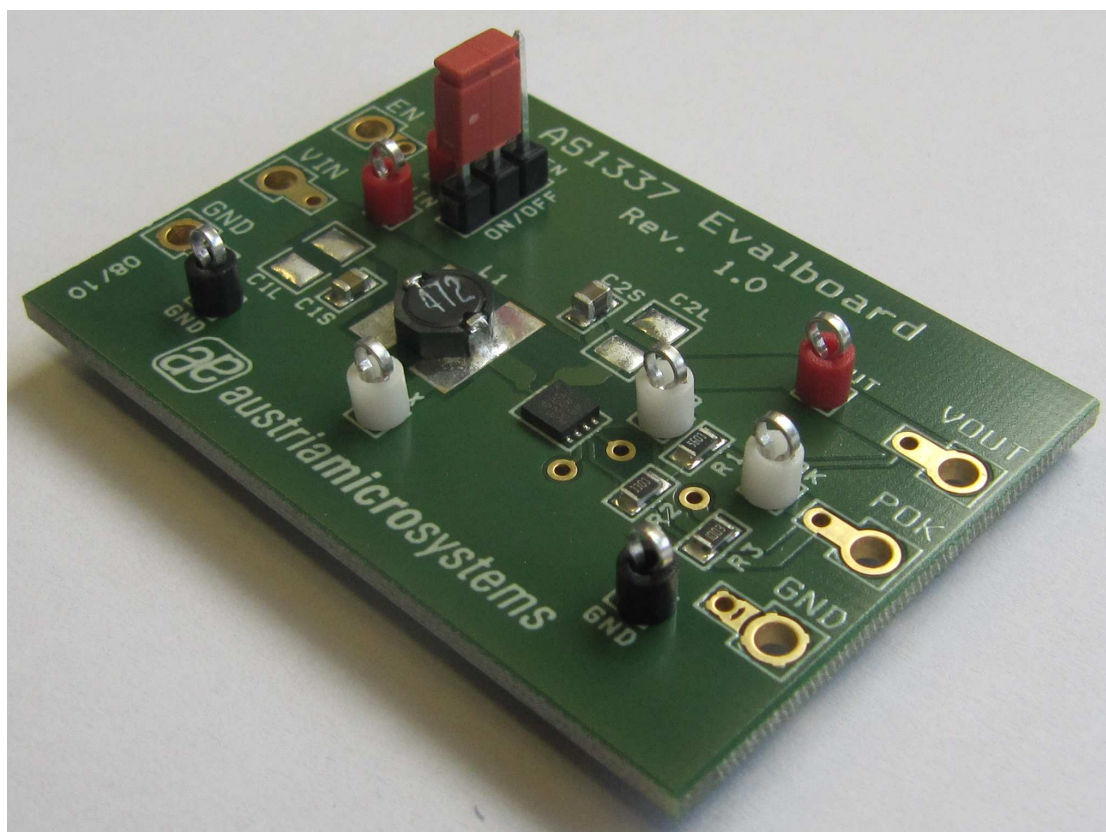


Demo Board Manual

AS1337

200mA, DC-DC Step-Up Converter with Buck Mode

www.austriamicrosystems.com/DC-DC_Step-Up/AS1337



General Description

Board Description

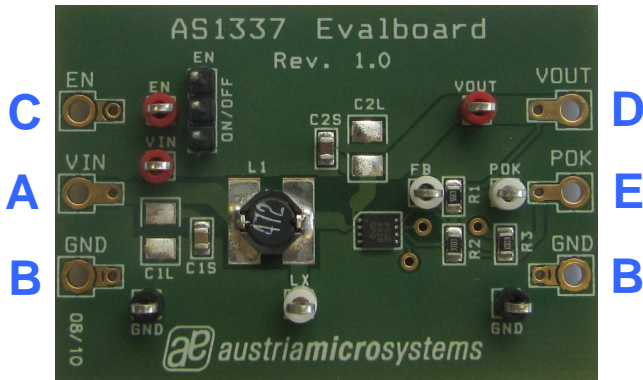


Figure 1: Board Description - Connectors

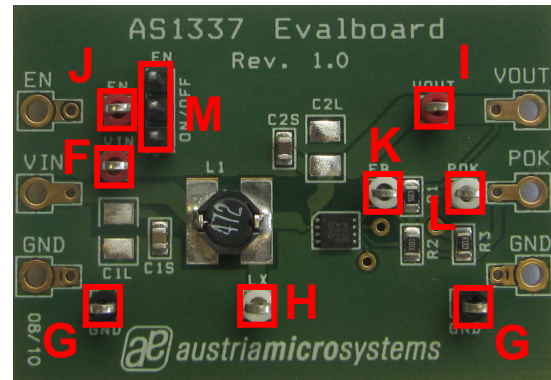





Figure 2: Board Description – Measurement Points

Connector Description

Label	Name	Description	Info
A	VIN	Supply Voltage	Supply voltage ranging from 0.65V to 4.5V
B	GND	Ground	
C	EN	Enable Input	Set the digital input “high” for normal operation. For shutdown, set “low”
D	VOUT	Output Voltage	Output voltage ranging from 2.5V to 5.0V high, when VOUT is within regulation
E	POK	POK	

Measurement Point Description

Label	Name	Description	Info
F	VIN	Supply Voltage	Measurement Points
G	GND	Ground	
H	LX	External Inductor	
I	VOUT	Output Voltage	
J	EN	Enable Input	
K	FB	Feedback	
L	POK	POK	
M	EN	Enable	<div>  ON: The AS1337 is enabled  OFF: The AS1337 is disabled  No Jumper: Connect a valid enable signal via external connector “C”. </div>

Getting Started

The AS1337 Demoboard is designed to work with the AS1337A “Battery connected in shutdown” version. With the resistor divider R1/R2 it is possible to adjust the VOUT.

On this Demoboard the following resistor values are mounted:
R1 = 560k and R2 = 330k → VOUT = 3.3V

Bill of Materials

Ref.	Function	Value	Description	Manufacturer	Mfg. Order Nr.
C1s	Input Capacitor	10 μ F	0805 / X5R / 6.3V	Murata	GRM219R60J106KE19
C2s	Output Capacitor	22 μ F	0805 / X5R / 6.3V	Murata	GRM21BR60J226ME39
L1	Coil	4.7 μ H	50m Ω / 1.82A / 6.8x6.0x2.4mm	Coilcraft	MOS6020-472ML
R1	Resistor (VOUT)	560k	0805/ \pm 1%	Multicomp	MC 0.1W 0805 1% 560K
R2	Resistor (VOUT)	330k	0805/ \pm 1%	Multicomp	MC 0.1W 0805 1% 330K
R3	R _{POK}	100k	0805/ \pm 1%	Multicomp	MC 0.1W 0805 1% 100K
U1	DC/DC Converter	ASSE	TQFN 3x3mm 8-pin	Austriamicrosystems AG	AS1337A-BTDT

Layout of Demo Board

Board schematics and layout

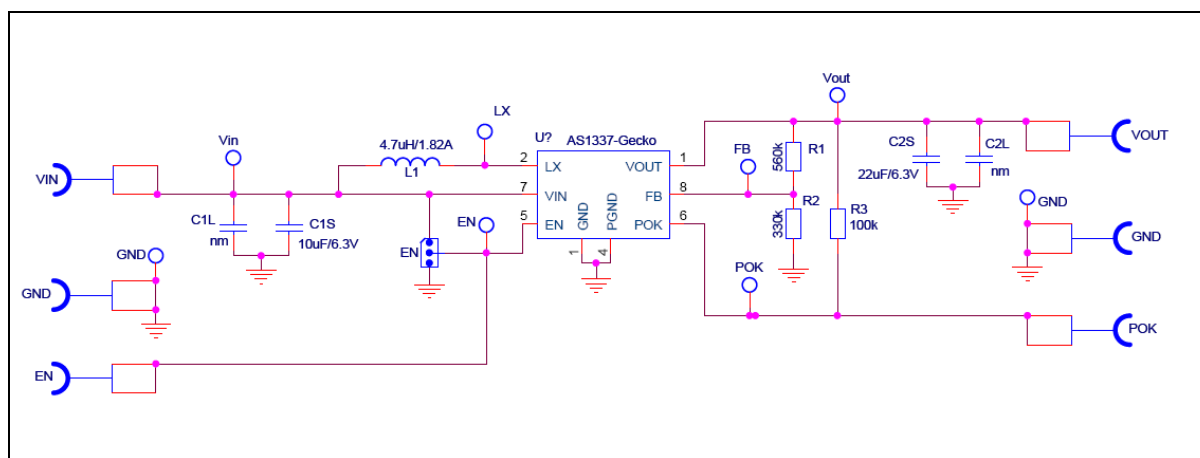


Figure 3: Schematics

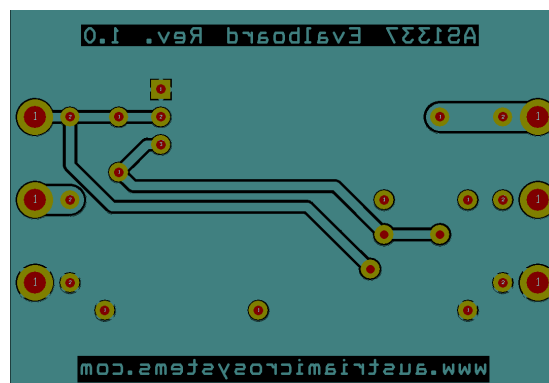
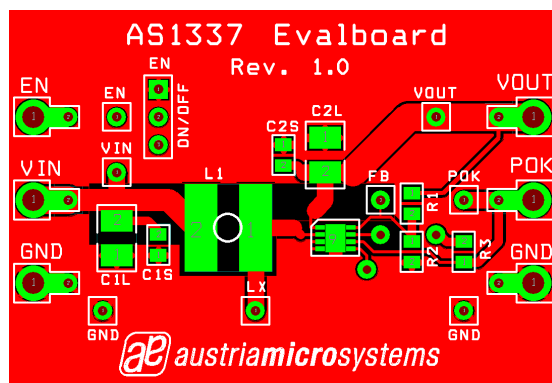


Figure 4: Top + Bottom Layer

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