# **Demo Board Manual**

# **AS1359**

# 300mA, Ultra-Low-Noise, High-PSRR Low **Dropout Regulators**

www.austriamicrosystems.com/LDO/AS1359





# **General Description**

#### **Board Description**

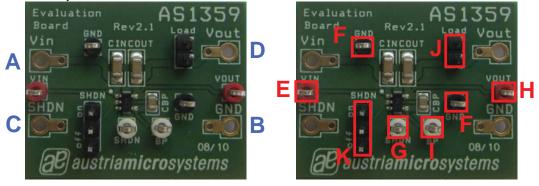


Figure 1: Board Description - Connectors

Figure 2: Board Description – Measurement Points

#### **Connector Description**

Label	Name	Description	Info	
Α	VIN	Supply Voltage	Supply voltage ranging from 2.0V to 5.5V	
В	GND	Ground		
С	SHDN	Shutdown	Pull this pin low to disable the LDO	
D	VOUT	Output Voltage	Output voltage ranging from 1.5V to 4.5V	

#### **Measurement Point Description**

Label	Name	Description	Info		
E	VIN	Supply Voltage			
F	GND	Ground			
G	SHDN	External Inductor	Measurement Points		
Н	VOUT	Output Voltage			
1	BP	Bypass			
J	Load		Jumper for resistive load		
			ON: The AS1359 is enabled		
K	SHDN	Shutdown	OFF: The AS1359 is disabled		
			No Jumper: Connect a valid enable signal via external connector "C".		

### **Getting Started**

The AS1359 Demoboard is designed to work with the AS1359 fixed output voltage version. The Demoboard can also be used with the AS1358. The difference between AS1358 and AS1359 is the output current.

AS1358:  $I_{OUT} = 150 \text{mA}$ AS1359:  $I_{OUT} = 300 \text{mA}$ 

#### **Bill of Materials**

Ref.	Function	Value	Description	Manufacturer	Mfg. Order Nr.
CIN	Input Capacitor	1µF	1206 / X7R / 16V	diverse	
COUT	Output Capacitor	1uF	1206 / X7R / 16V	diverse	
CBP	Bypass Capacitor	10nF	0805 / X7R / 6.3V	diverse	
U1	LDO	ASxx	TSOT23 5-pin	Austriamicrosystems AG	AS1359-BTTT-xx



## **Layout of Demo Board**

#### **Board schematics and layout**

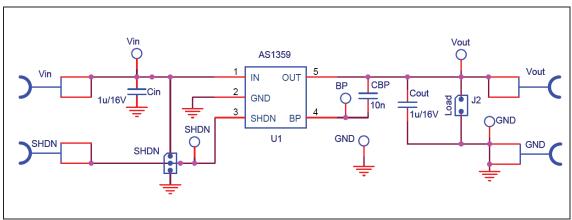
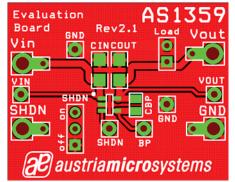


Figure 3: Schematics



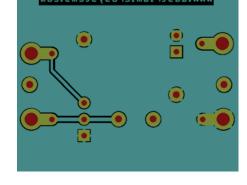


Figure 4: Top + Bottom Layer



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