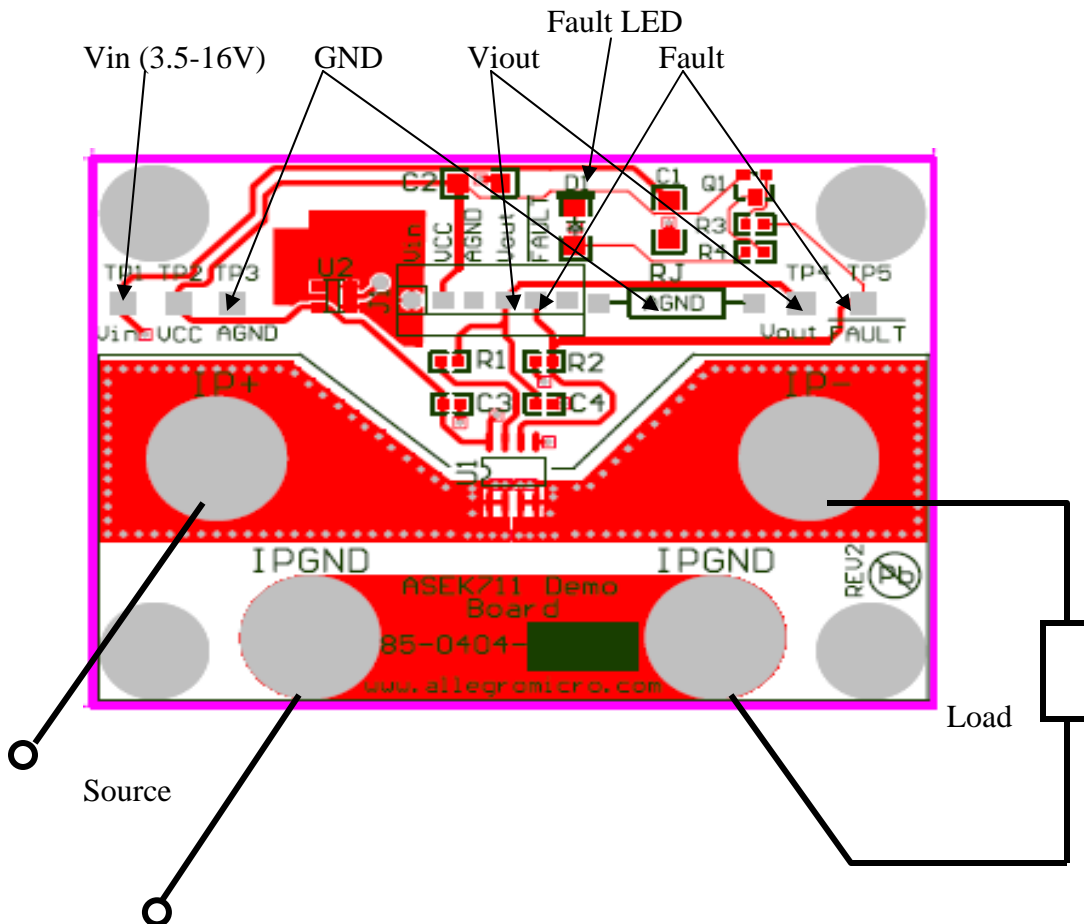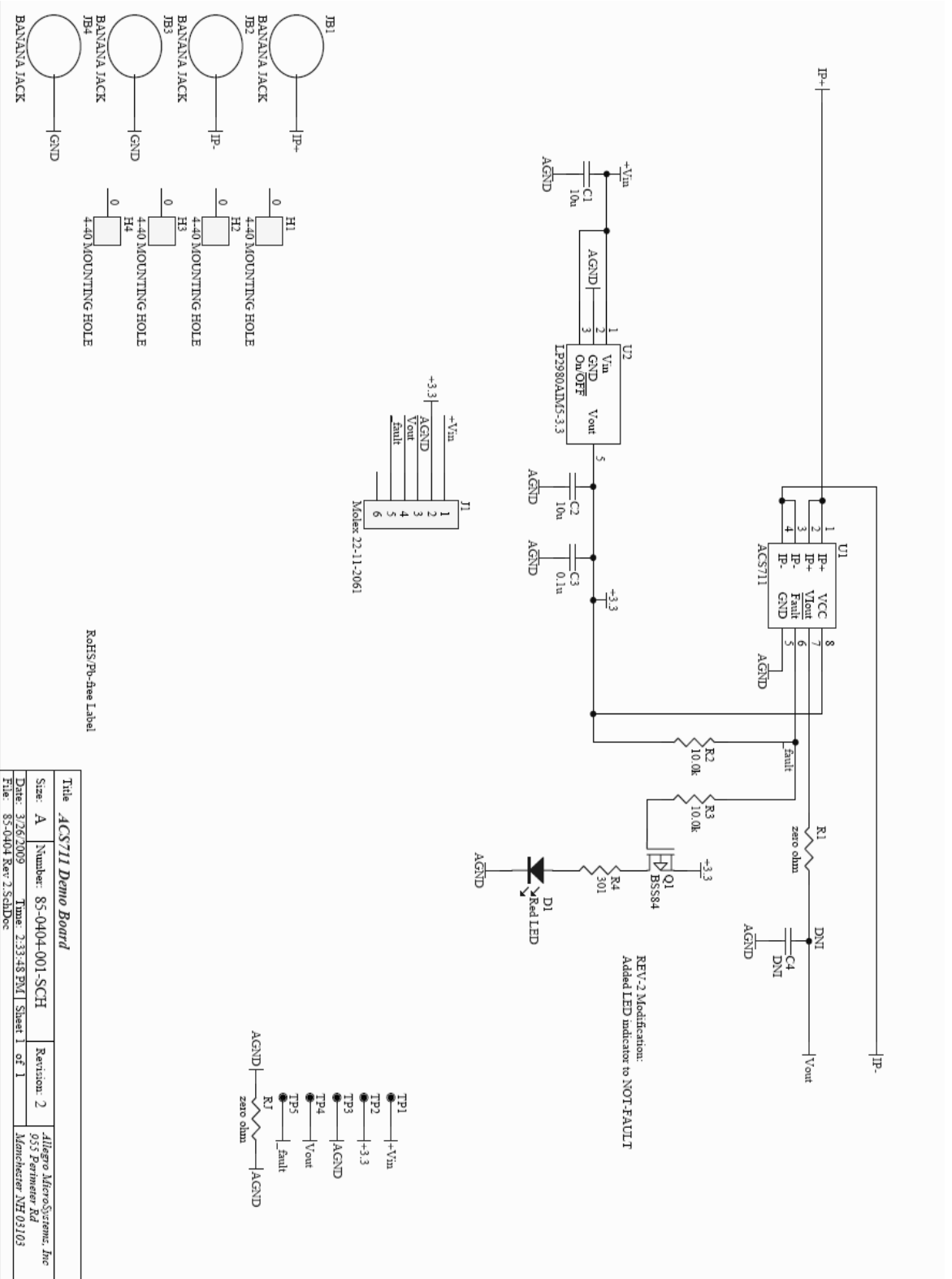# ACS711 Demo Board User Instructions

- The following picture is the top view of the demo board with explanations pointed to each test point hook up and socket pin, and the connection diagram in a typical application.

- On board 3.3V voltage regulator U2 input voltage (Vin) range: 3.5-16V.

- No external pull up resistor is needed for Fault pin as a 10k pull up resistor is already installed on board.

- Once the sensor faulted (Fault signal went low and Fault LED lights on) the only way to reset the fault is to reset Vcc.

- See ACS711 Data Sheet for detailed information. See next page for board schematic.

IP+

IP-

JB1
BANANA JACK
IP+

JB2
BANANA JACK
IP-

JB3
BANANA JACK
GND

JB4
BANANA JACK
GND

H1
4-40 MOUNTING HOLE   0

H2
4-40 MOUNTING HOLE   0

H3
4-40 MOUNTING HOLE   0

H4
4-40 MOUNTING HOLE   0

RoHS/Pb-free Label

AGND
C1
10n
+Vin

U2
1 Vin   Vout 5
2 GND
3 On/OFF AGND 4
LP2980AIM5-3.3

J1
+3.3
AGND
Vout
fault
+Vin
1
2
3
4
5
6
Molex 22-11-2061

AGND
C2
10n

AGND
C3
0.1u

+3.3

U1
1 IP+   VCC   8
2 IP+   Vout 7
3 IP-   Fault 6
4 IP-   GND   5
ACS711
AGND

fault

R2
10.0k

R3
10.0k

Q1
BSS84
+3.3

R4
301

D1
Red LED

AGND

R1
zero ohm

C4
DNI
DNI
AGND

Vout

REV-2 Modification:
Added LED indicator to NOT-FAULT

TP1 +Vin
TP2 +3.3
TP3 AGND
TP4 Vout
TP5 fault

R5
zero ohm
AGND   AGND
AGND

Title: ACS711 Demo Board

Size: A   Number: 85-0404-001-SCH   Revision: 2

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