



A

B

C

D

A

B

C

D

Title			µSupply Precision Bench PSU		
Size	Number	Revision			A
A4	www.eevblog.com				
Date:	1/2/2012	Sheet of	1 of 1		
File:	D:\Projects\...\uSupplyBench.SchDoc	Drawn By:	(c) 2011 David L. Jones		

NOTE:  
All resistors 1% 1/4W Metal Film 100ppm  
Unless noted as 0.1% 25ppm



DC JACK 2.5mm/5.5mm

@ Gain=5, 12bit ADC, 2.048V REF:  
R=2R = 0.2R = 1V/A OUT = 2.048A range = 500uA / bit  
R=1R = 0.1R = 0.5V/A OUT = 4.096A range = 1mA / bit

0.1\*R 5W Shunt <1% 0.4V max drop

HS1  
HEATSINK  
H0668  
Use LT3083 for 2A

0.166945 \* VIN  
VIN / 5.99

2.048V  
30ppm  
+/-0.25%

Current Sense Out  
AV=5  
See Above table

Gain=5  
0-2.048V I/P  
0-10.24V O/P  
2.5mV Resolution

STAR  
GND

With 12bit ADC @ 2.048V  
2.5uA/bit Resolution

\*BOLD pins are fixed

1

2

3

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