

D

C

B

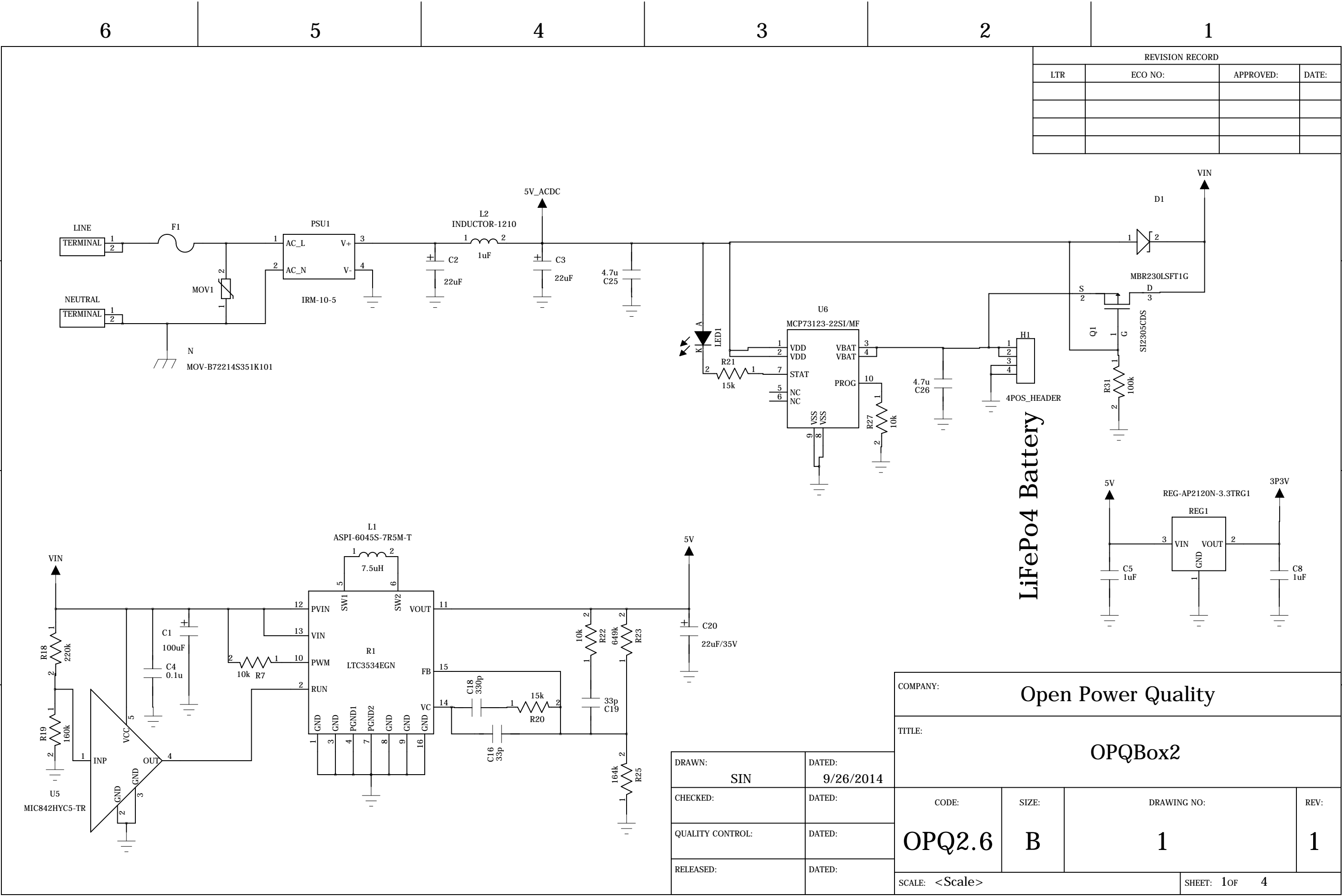
A

D

C

B

A



LED1

LED

R21

15k

U6

MCP73123-22SI/MF

VDD

VDD

1

2

STAT

7

NC

5

NC

6

VSS

9

VSS

8

VBAT

3

VBAT

4

PROG

10

R27

10k

C26

4.7u

H1

4POS_HEADER

Q1

SI2305CDS

R31

100k

D1

MBR230LSFT1G

VIN

5V

REG-AP2120N-3.3TRG1

REG1

VIN

VOUT

2

C8

1uF

3P3V

5V

C5

1uF

VIN

R18

220k

R19

180k

U5

MIC842HYC5-TR

INP

1

VCC

5

OUT

4

GND

2

GND

3

L1

ASPI-6045S-7R5M-T

1

2

SW1

5

SW2

6

VOUT

11

R1

LTC3534EGN

PVIN

12

VIN

13

PWM

10

RUN

2

PGND1

4

PGND2

7

GND

8

GND

9

GND

16

VC

15

FB

14

C16

33p

R20

15k

C18

330p

R22

10k

R23

649k

R25

164k

C19

33p

C20

22uF/35V

5V

DRAWN:

SIN

CHECKED:

QUALITY CONTROL:

RELEASED:

DATED:

9/26/2014

DATED:

DATED:

DATED:

COMPANY:

Open Power Quality

TITLE:

OPQBox2

CODE:

OPQ2.6

SIZE:

B

DRAWING NO:

1

REV:

1

SCALE: <Scale>

SHEET: 1 of 4

D

C

B

A

6

5

4

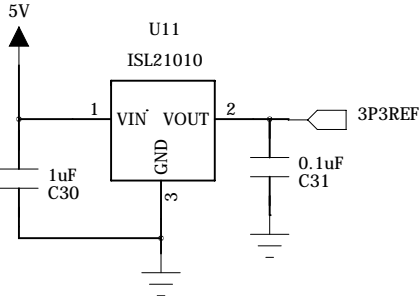
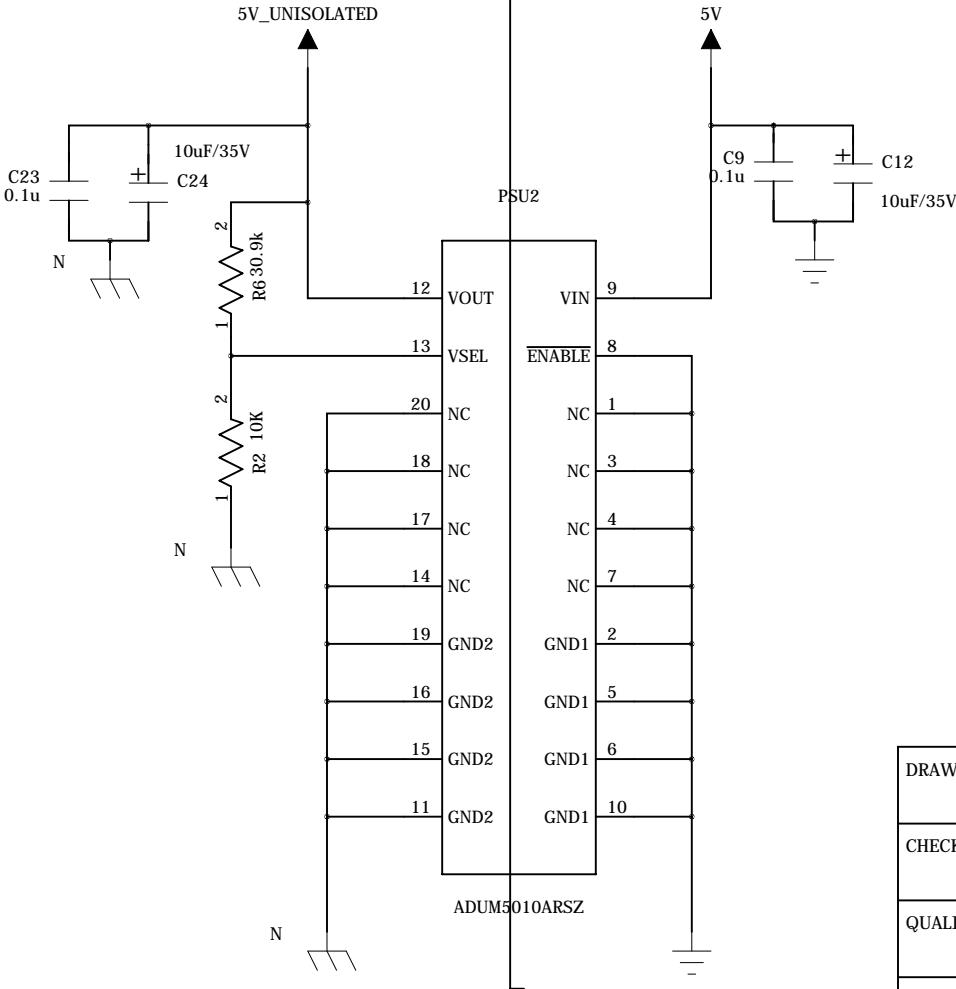
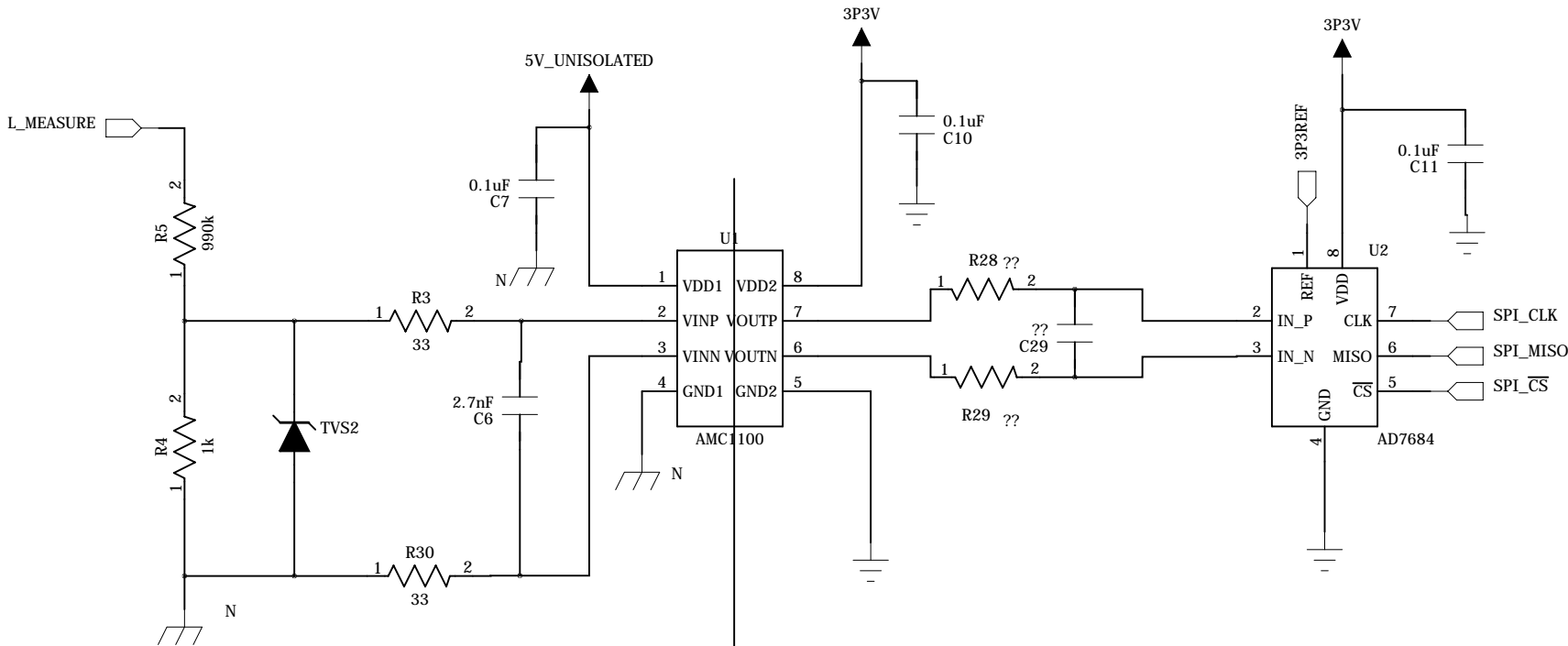
3

2

1

NOT isolated

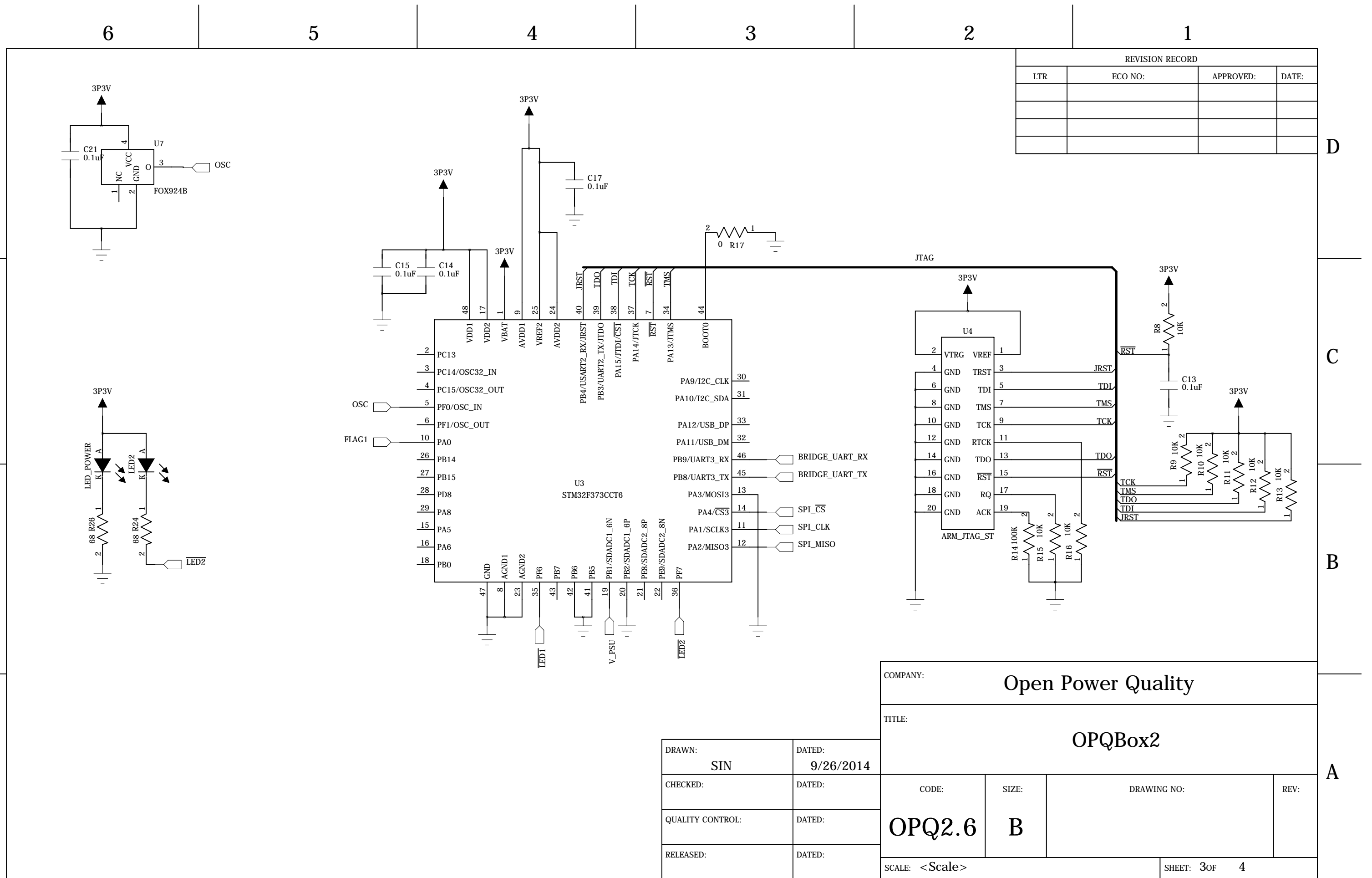
Isolated



REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

COMPANY: Open Power Quality			
TITLE: OPQBox2			
CODE: OPQ2.6	SIZE: B	DRAWING NO: 1	REV: 1
SCALE: <Scale>		SHEET: 2 OF 4	

DRAWN: SIN	DATED: 9/26/2014
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:



6

5

4

3

2

1

REVISION RECORD

LTR	ECO NO:	APPROVED:	DATE:

PI1

1

3

5

7

9

11

13

15

17

19

21

23

25

3.3V

P2/SDA

P3/SCL

P4/CLK0

GND

P17

P27

P22

3.3V

P10/MOSI

P9/MISO

P11/SCLK

GND

5V

5V

GND

P14/TXD

P15/RXD

P18

GND

P23

P24

GND

P25

P8/CE0

P7/CE1

2

4

6

8

10

12

14

16

18

20

22

24

26

5V

BRIDGE_UART_RX

BRIDGE_UART_TX

FLAG1

DRAWN:

SIN

CHECKED:

<Checked By>

QUALITY CONTROL:

<QC By>

RELEASED:

<Released By>

DATED:

9/26/2014

DATED:

<Checked Date>

DATED:

<QC Date>

DATED:

<Release Date>

COMPANY:

Open Power Quality

TITLE:

OPQBox2

CODE:

OPQ2.6

SIZE:

B

DRAWING NO:

1

REV:

1

SCALE: <Scale>

SHEET: 4 of 4