

PCB LAYOUT NOTES:
 PLACE BYPASS CAPS C8 AND C10
 AS CLOSE TO U1 AS POSSIBLE.
 PLACE C9 VERY NEAR U1 PINS 34 & 35

CUSTOMER NOTICE

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THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.

CONTRACT NO.

APPROVALS

DRAWN: CHRIS P.

CHECKED:

APPROVED:

ENGINEER: DAVE C.

DESIGNER:



1630 McCarthy Blvd.
 Milpitas, CA 95035
 Phone: (408)432-1900
 Fax: (408)434-0507
 LTC Confidential-For Customer Use Only

TITLE: LTC2977 8-CHANNEL PM BUS POWER SYSTEM MANAGER

LTC2977IUP

SIZE DWG NO.

A

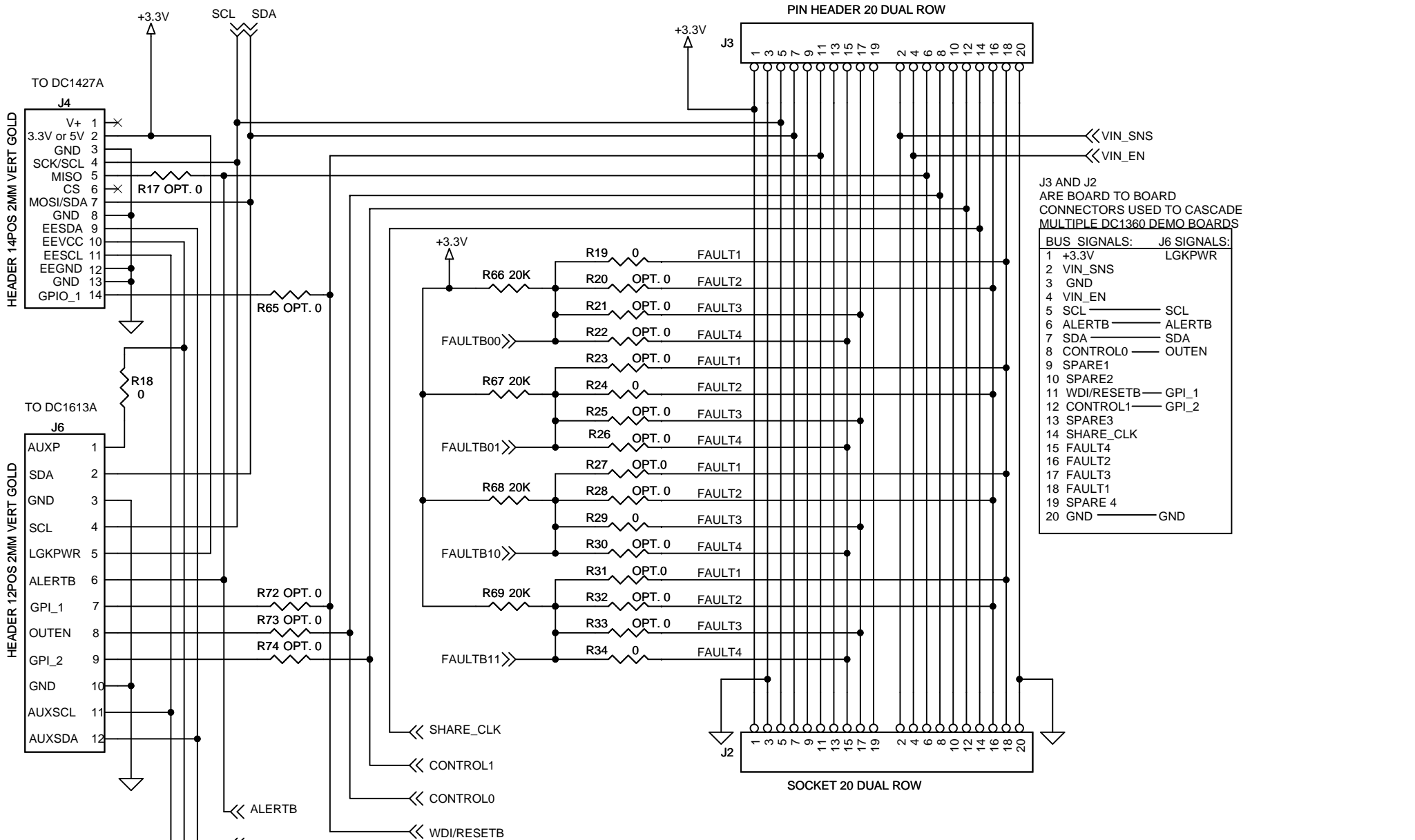
DC1360B

REV

B

DATE: Thursday, August 01, 2013

SHEET 1 OF 4



J3 AND J2
ARE BOARD TO BOARD
CONNECTORS USED TO CASCADE
MULTIPLE DC1360 DEMO BOARDS

BUS SIGNALS:		J6 SIGNALS:	
1	+3.3V	1	LGKPWR
2	VIN_SNS	2	VIN_EN
3	GND	3	GND
4	VIN_EN	4	VIN_EN
5	SCL	5	SCL
6	ALERTB	6	ALERTB
7	SDA	7	SDA
8	CONTROL0	8	OUTEN
9	SPARE1	9	SPARE1
10	SPARE2	10	SPARE2
11	WDI/RESETB	11	GPI_1
12	CONTROL1	12	GPI_2
13	SPARE3	13	SPARE3
14	SHARE_CLK	14	SHARE_CLK
15	FAULT4	15	FAULT4
16	FAULT2	16	FAULT2
17	FAULT3	17	FAULT3
18	FAULT1	18	FAULT1
19	SPARE 4	19	SPARE 4
20	GND	20	GND

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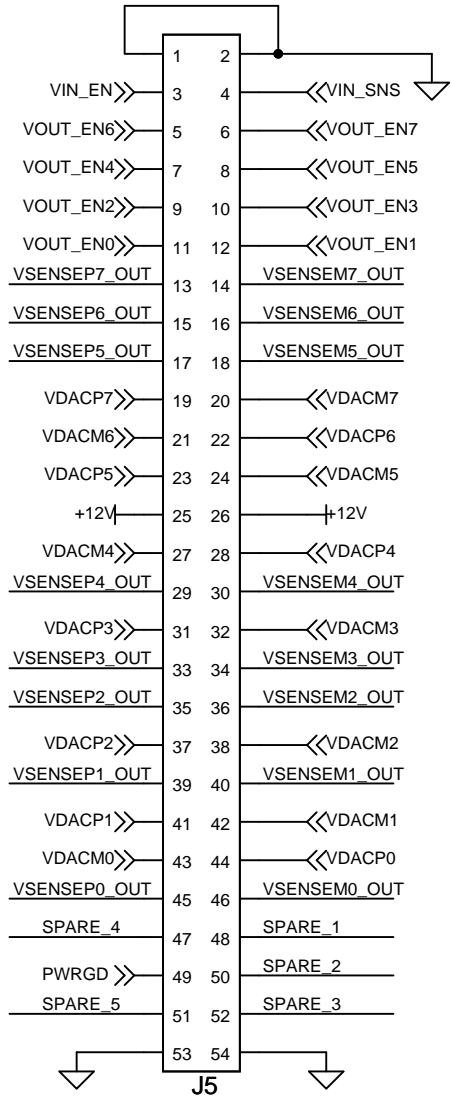
TITLE: LTC2977 8-CHANNEL PM BUS POWER SYSTEM MANAGER

LTC2977IUP

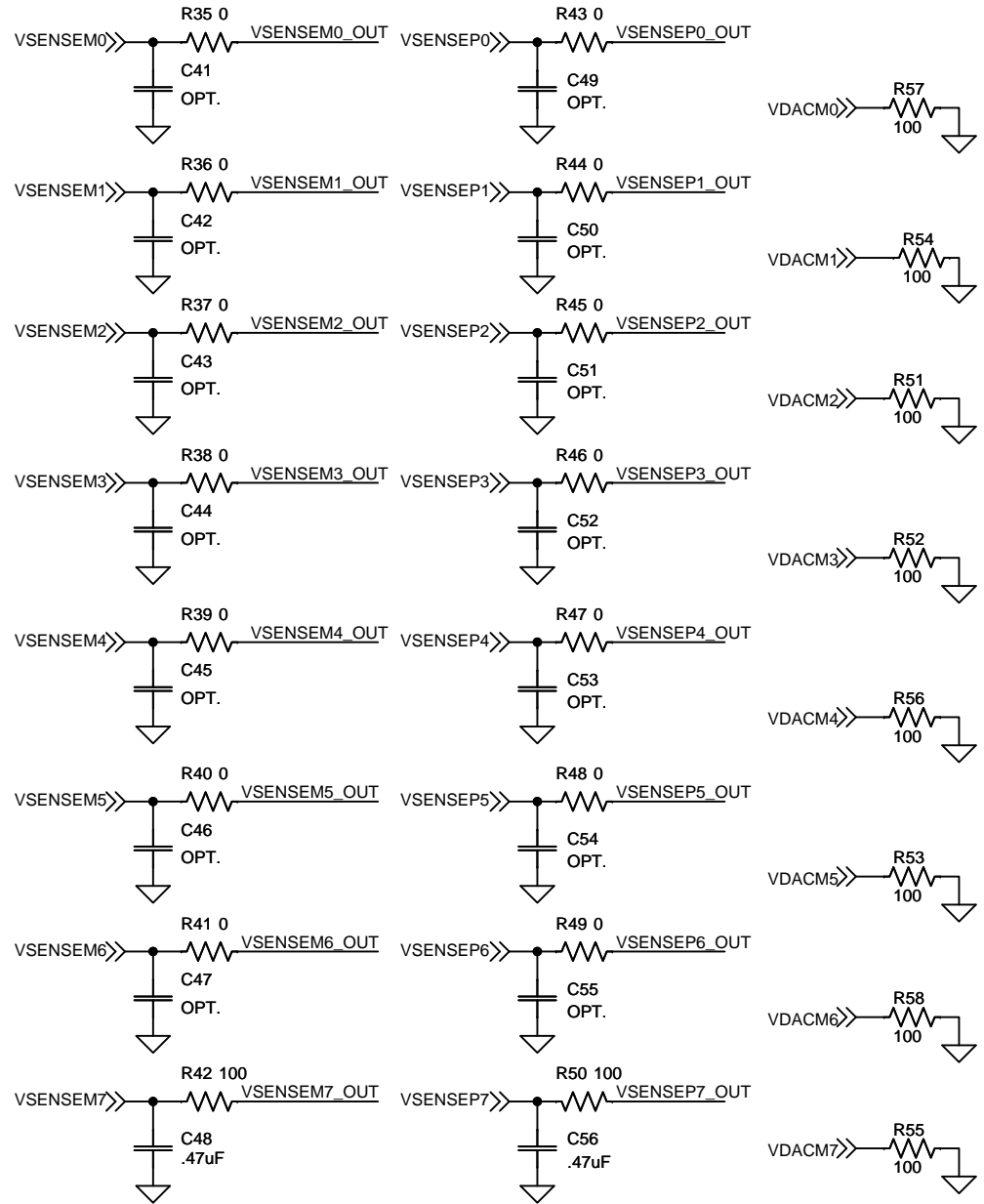
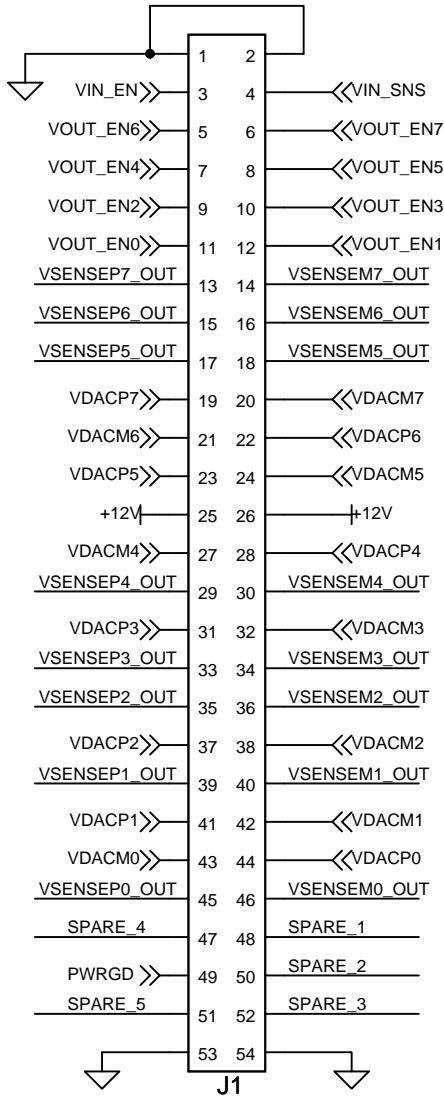
SIZE A	DWG NO. DC1360B	REV B
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J5 HEADER
 PROVIDES ACCESS TO LINES GOING TO
 COMPANION POWER SUPPLY BOARD
 (OPTIONAL)



J1 CONNECTOR
 TO POWER SUPPLY COMPANION BOARD



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LTC2977IUP
DC1360B

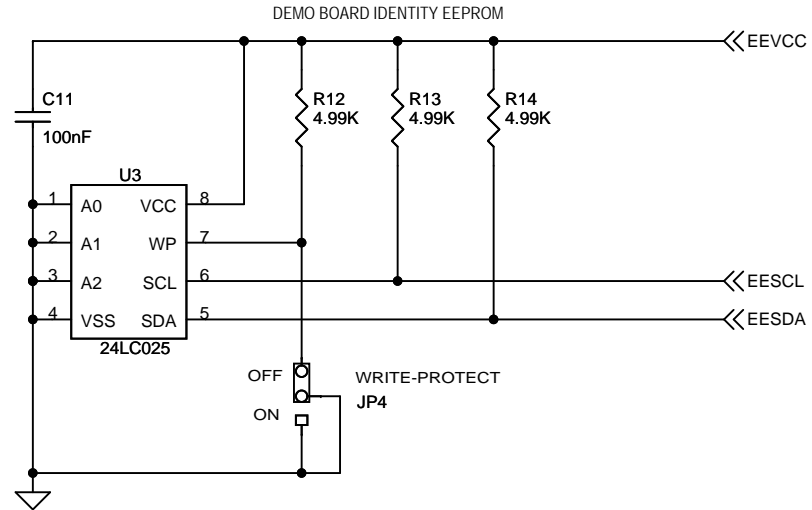
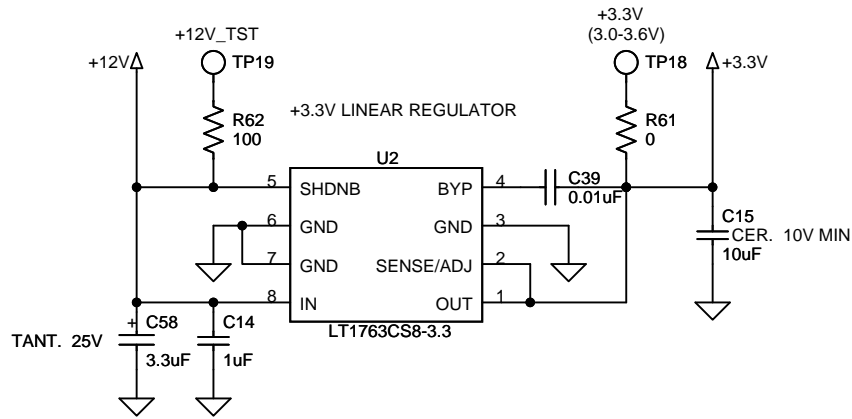
SIZE A DWG NO.

REV B

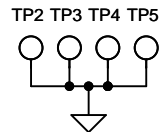
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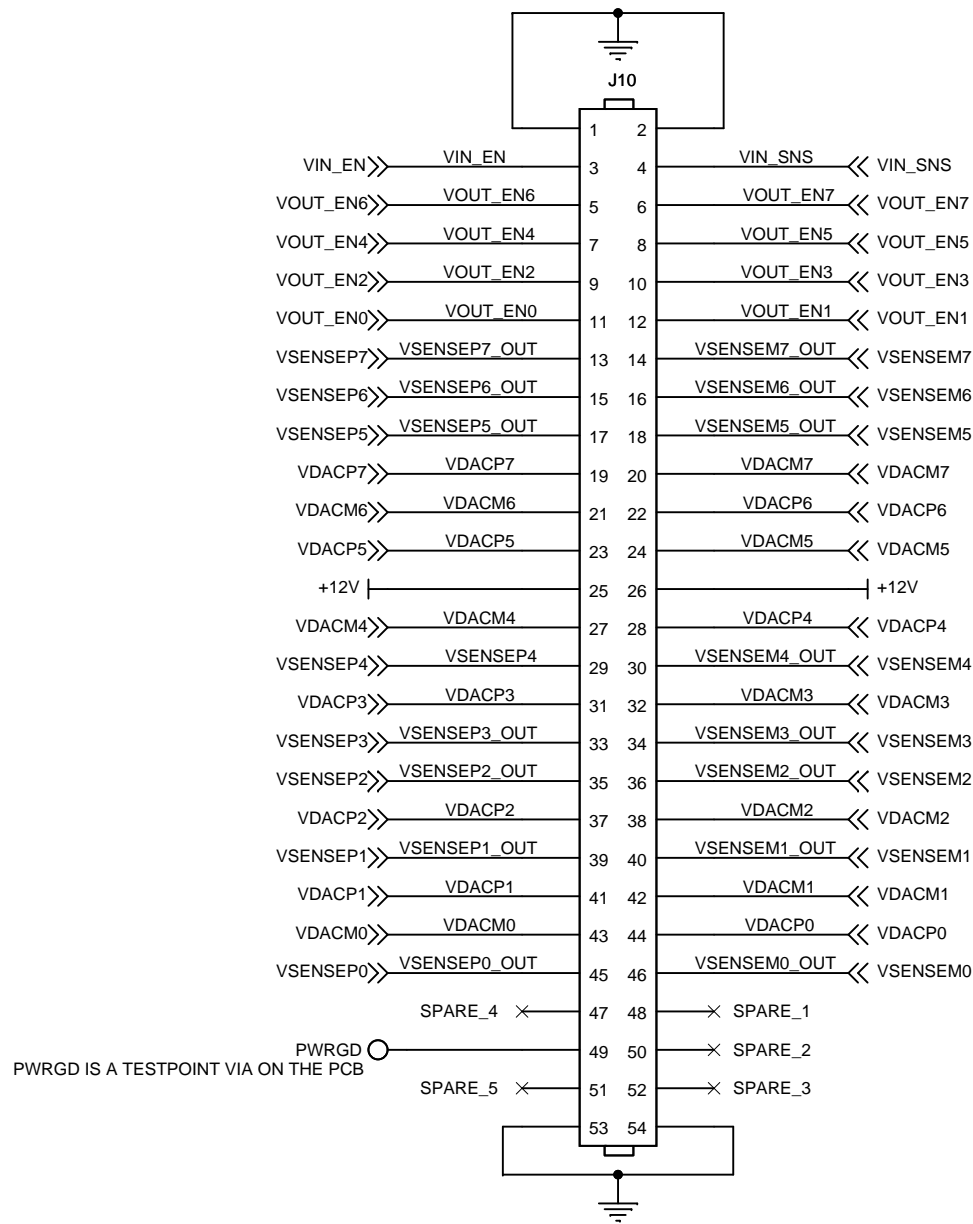
SHEET 3 OF 4




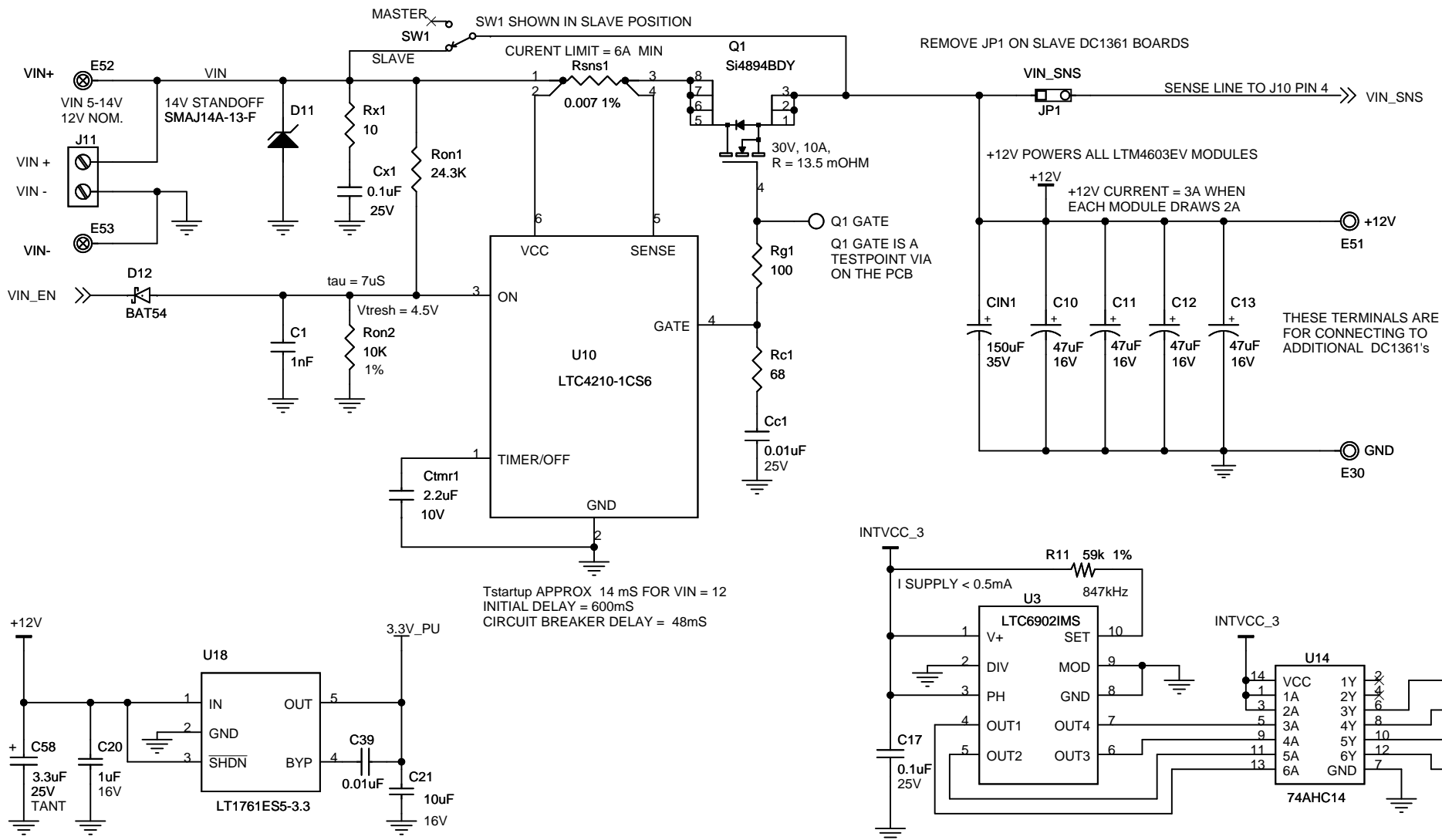
GROUND TEST POINTS



<p align="center">CUSTOMER NOTICE</p> <p>LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE</p>	CONTRACT NO.	 <p>1630 McCarthy Blvd. Milpitas, CA 95035 Phone: (408)432-1900 Fax: (408)434-0507 LTC Confidential-For Customer Use Only</p>	
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	DATE: Thursday, August 01, 2013	SHEET 4 OF 4	



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	APPROVALS	DATE			
	DRAWN Dave Clemans	07-19-13	TITLE		
	CHECKED		8 OUTPUT POWER SUPPLY		
	APPROVED		SIZE	CAGE CODE	DWG NO
ENGINEER Dave Clemans	07-19-13			DC1361B	B
DESIGNER		SCALE:		FILENAME:	SHEET 1 OF 10
THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.	Thursday, August 01, 2013				



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APPROVED	
ENGINEER Dave Clemans	07-19-13
DESIGNER	

Thursday, August 01, 2013



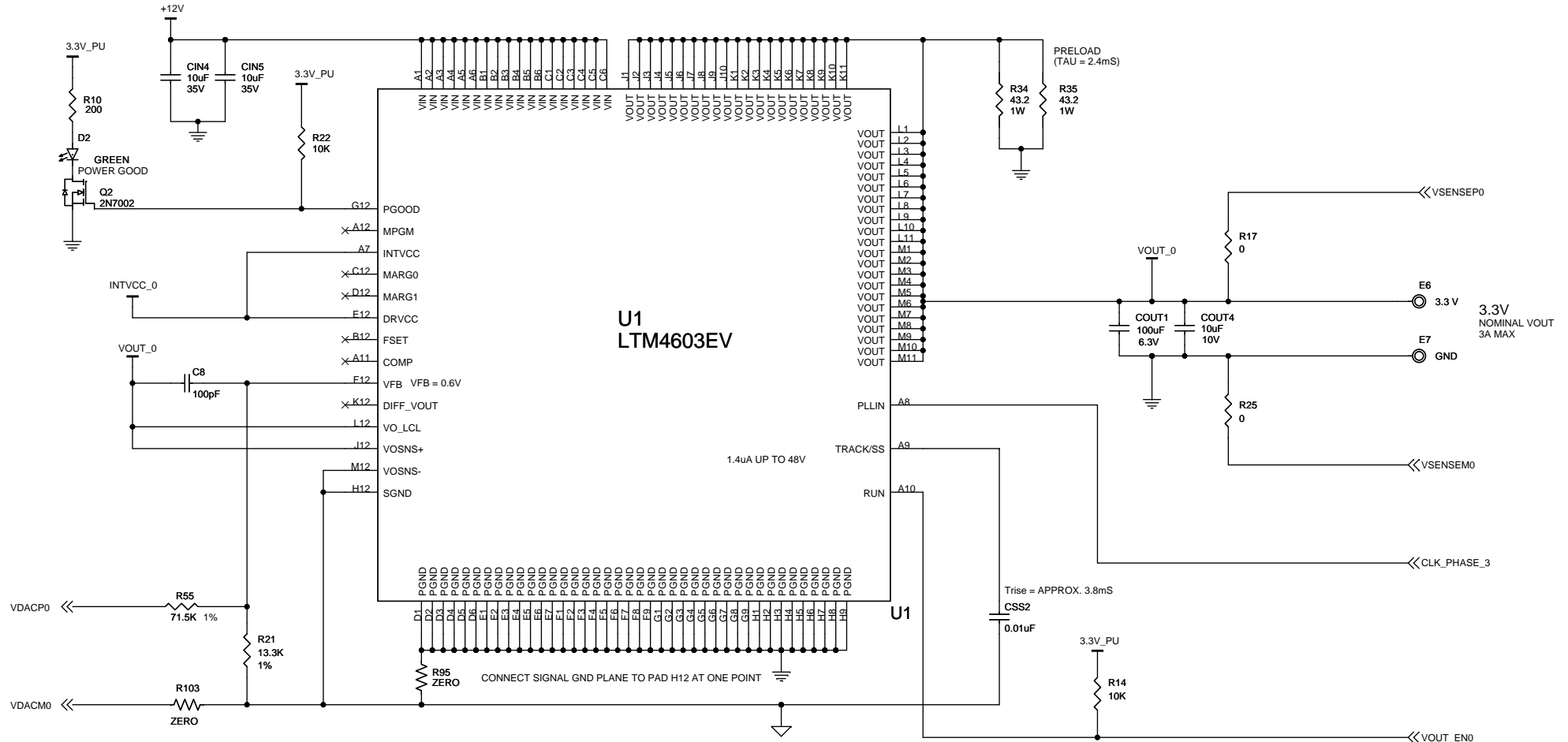
1630 McCarthy Blvd.
Milpitas, CA 95035
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TITLE
8 OUTPUT POWER SUPPLY

SIZE	CAGE CODE	DWG NO	REV
		DC1361B	B

SCALE: FILENAME: SHEET 2 OF 10

VOUT_0



NOTE: THE "ZERO" OHM RESISTORS IN VDACn LINE AND BETWEEN PGND AND SGND AND BETWEEN THE OUTPUTS AND THE SENSE LINES ARE NOT COMPONENTS. THEY ARE TRACES ON THE PCB.

VDAC injects the control voltage from the LTC2978 into the feedback divider of the LTM4603 to trim and margin VOUT

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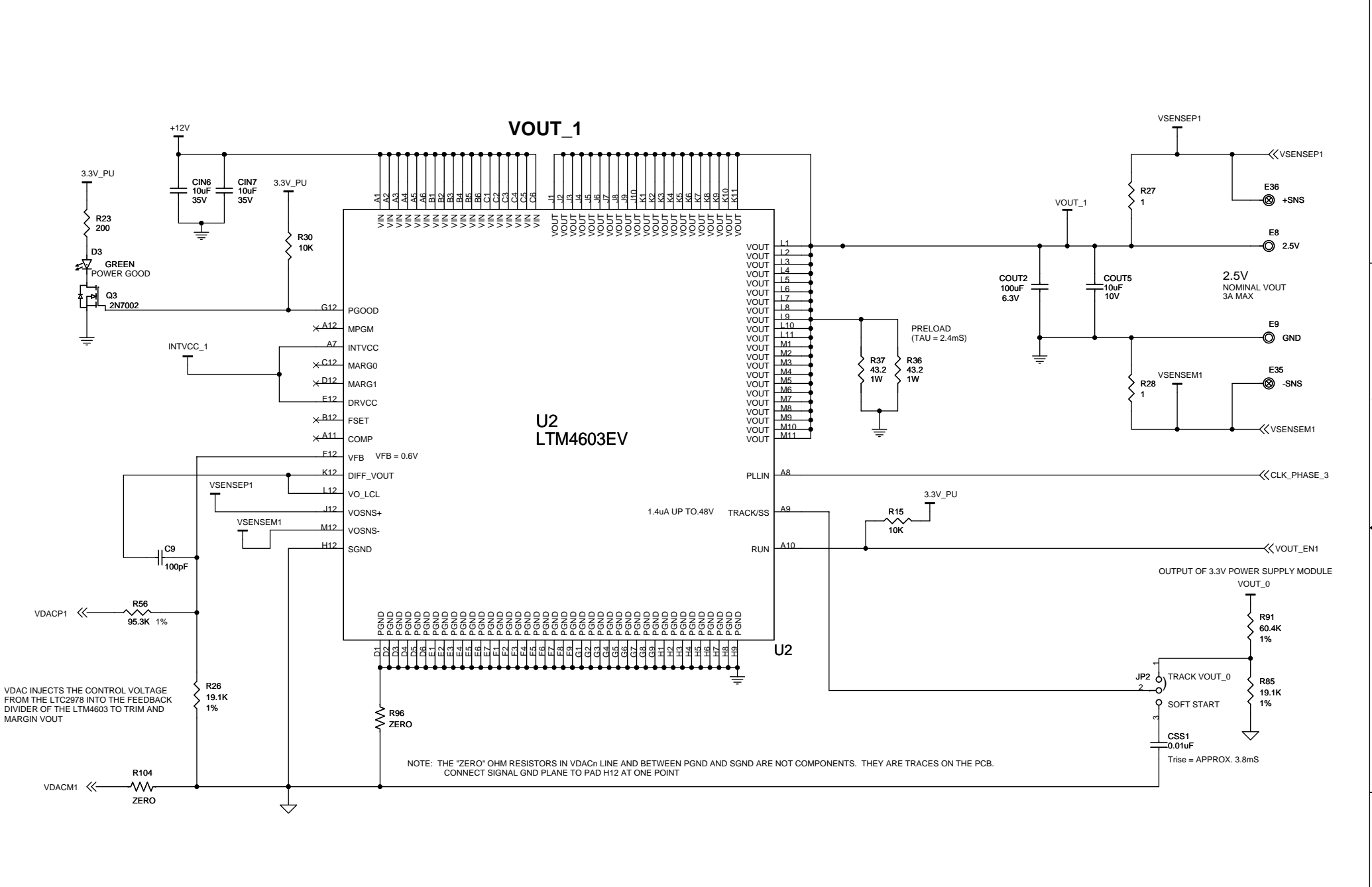
APPROVALS	DATE
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APPROVED	
ENGINEER Dave Clemans	07-19-13
DESIGNER	

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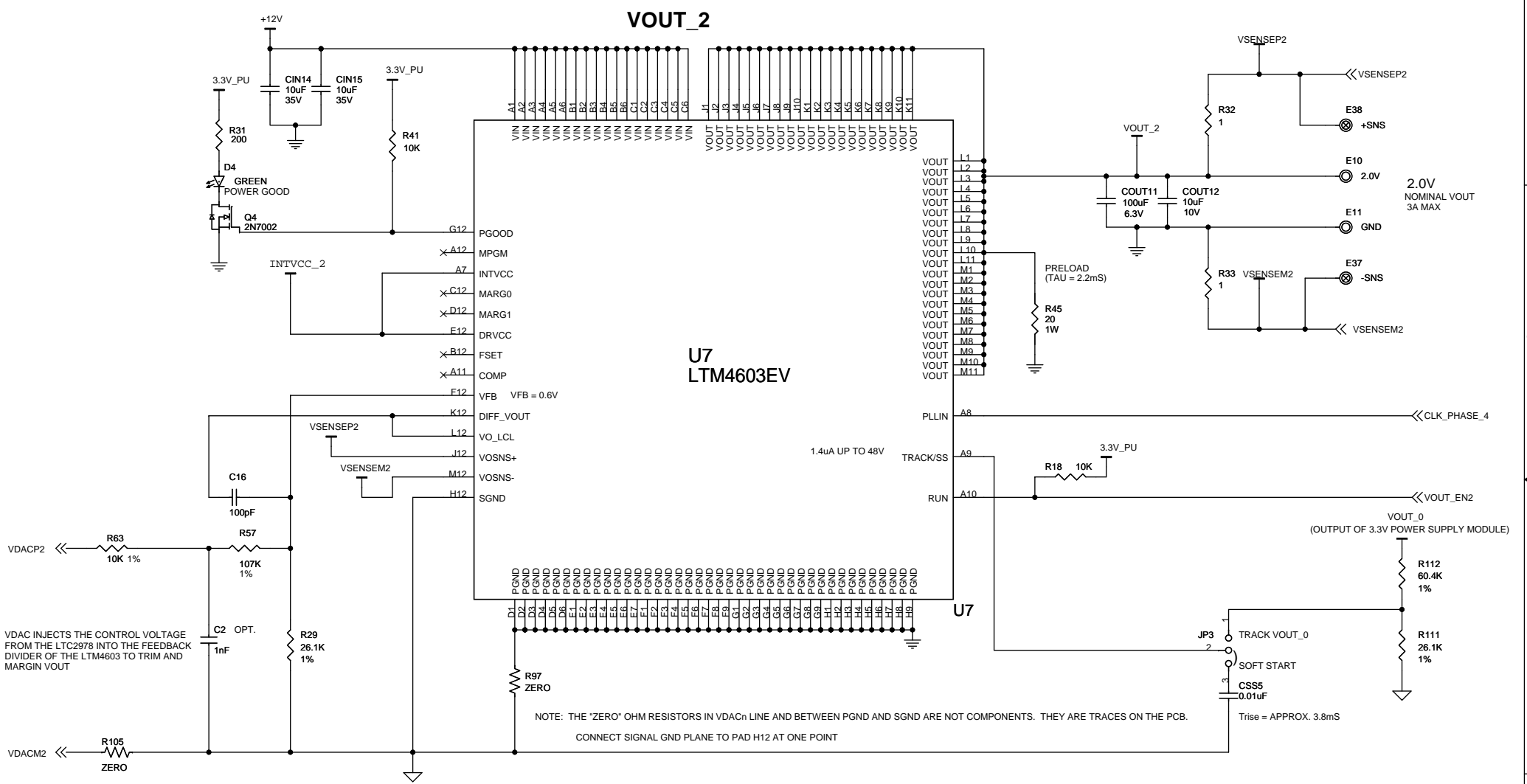
TITLE			
8 OUTPUT POWER SUPPLY			
SIZE	CAGE CODE	DWG NO	REV
		DC1361B	B
SCALE:	FILENAME:	SHEET	OF
		3	10



VDAC INJECTS THE CONTROL VOLTAGE FROM THE LTC2373 INTO THE FEEDBACK DIVIDER OF THE LTM4603 TO TRIM AND MARGIN VOUT


NOTE: THE "ZERO" OHM RESISTORS IN VDACn LINE AND BETWEEN PGND AND SGND ARE NOT COMPONENTS. THEY ARE TRACES ON THE PCB. CONNECT SIGNAL GND PLANE TO PAD H12 AT ONE POINT

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		DRAWN	Dave Clemans 07-19-13				
		CHECKED					
		APPROVED					
		ENGINEER	Dave Clemans 07-19-13				
DESIGNER		SIZE	CAGE CODE	DWG NO	REV		
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				SHEET	4	OF	10

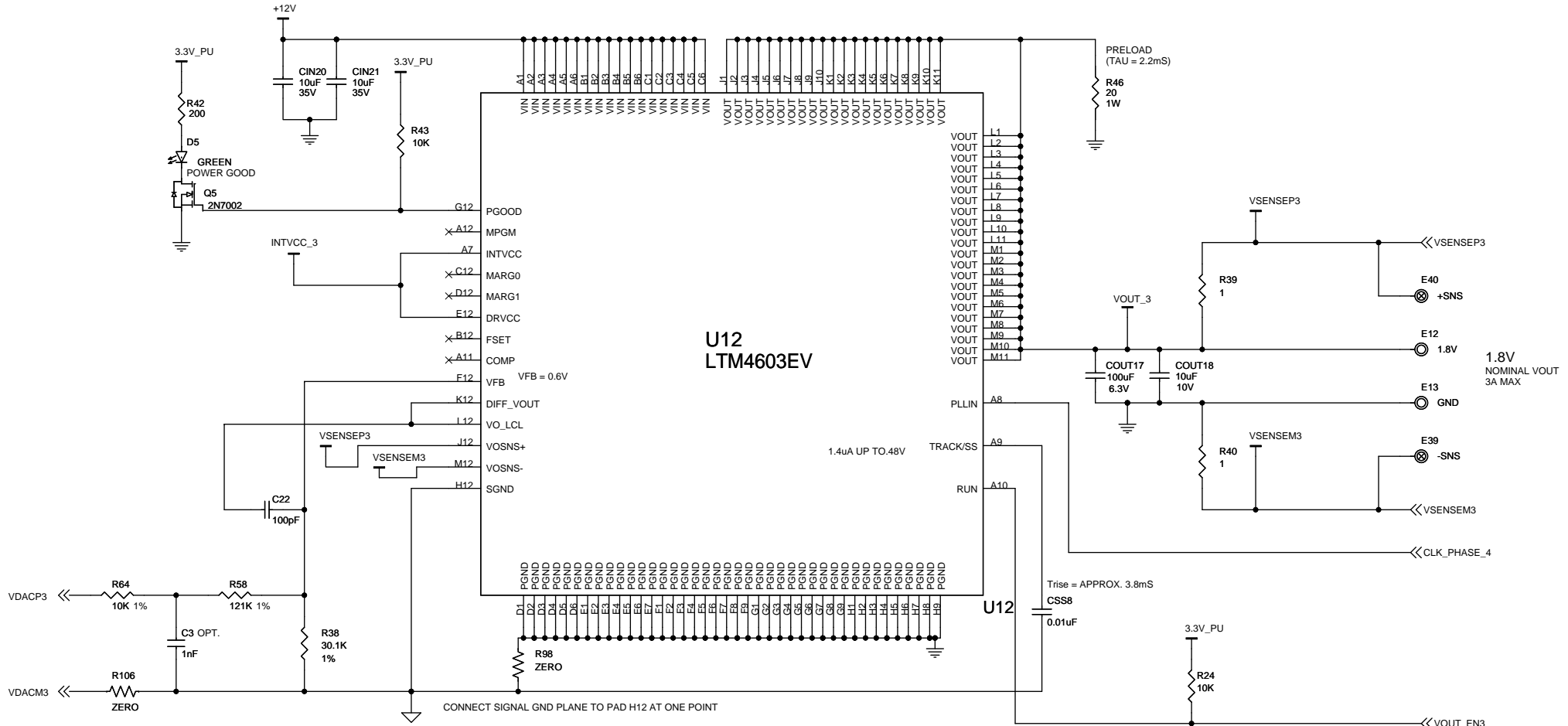


VDAC INJECTS THE CONTROL VOLTAGE FROM THE LTC2978 INTO THE FEEDBACK DIVIDER OF THE LTM4603 TO TRIM AND MARGIN VOUT

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	APPROVALS	DATE		
	DRAWN Dave Clemans	07-19-13	TITLE	
	CHECKED		8 OUTPUT POWER SUPPLY	
	APPROVED		SIZE CAGE CODE DWG NO	
ENGINEER Dave Clemans	07-19-13	DC1361B		
DESIGNER		REV B		
Thursday, August 01, 2013		SCALE:	FILENAME:	SHEET 5 OF 10

VOUT_3

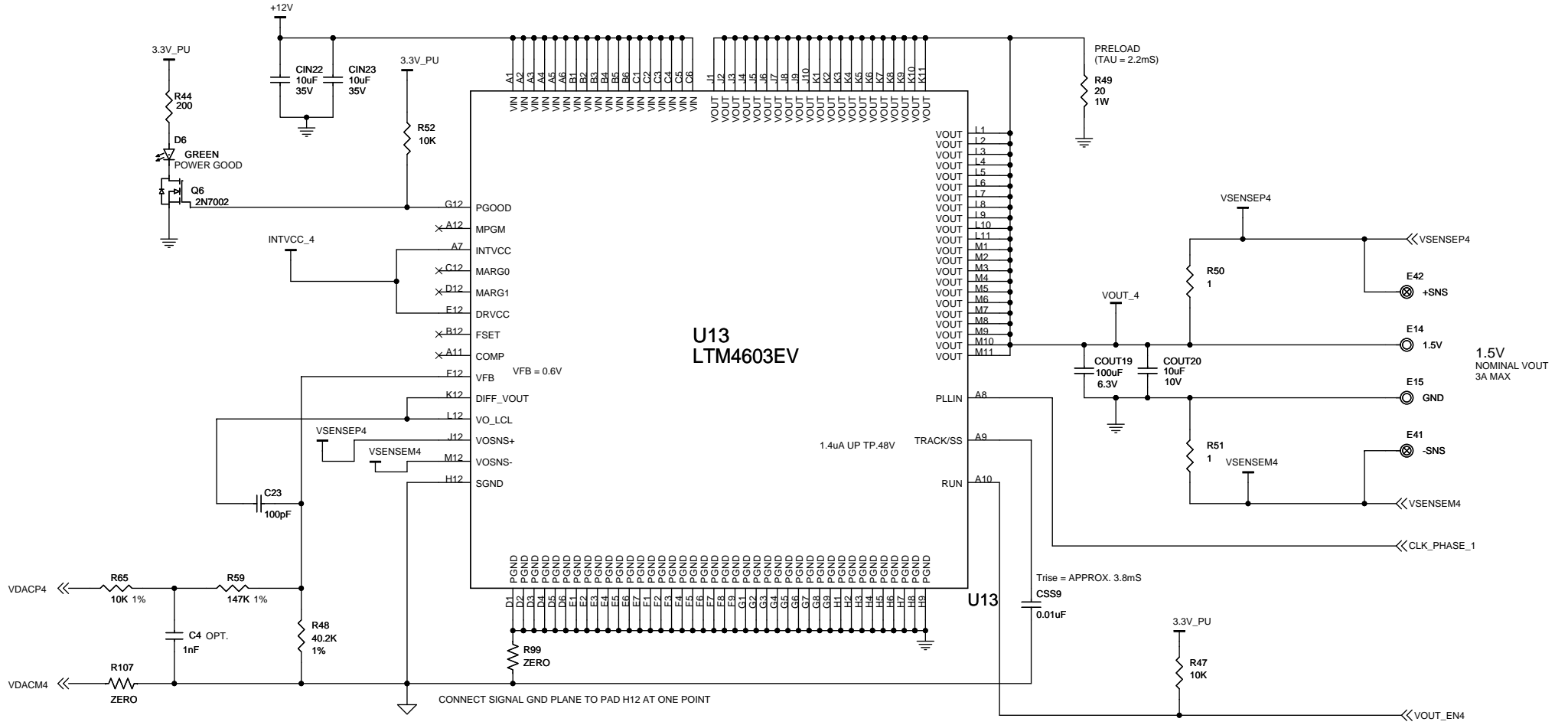


NOTE: THE "ZERO" OHM RESISTORS IN VDACn LINE AND BETWEEN PGND AND SGND ARE NOT COMPONENTS. THEY ARE TRACES ON THE PCB.

VDAC INJECTS THE CONTROL VOLTAGE FROM THE LTC2978 INTO THE FEEDBACK DIVIDER OF THE LTM4603 TO TRIM AND MARGIN VOUT

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		DRAWN	Dave Clemans 07-19-13				
		CHECKED					
		APPROVED					
		ENGINEER	Dave Clemans 07-19-13				
DESIGNER		SIZE	CAGE CODE	DWG NO	REV		
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				SHEET	6	OF	10

VOUT_4




NOTE: THE "ZERO" OHM RESISTORS IN VDACH LINE AND BETWEEN PGND AND SGND ARE NOT COMPONENTS. THEY ARE TRACES ON THE PCB.

VDAC INJECTS THE CONTROL VOLTAGE FROM THE LTC2978 INTO THE FEEDBACK DIVIDER OF THE LTM4603 TO TRIM AND MARGIN VOUT

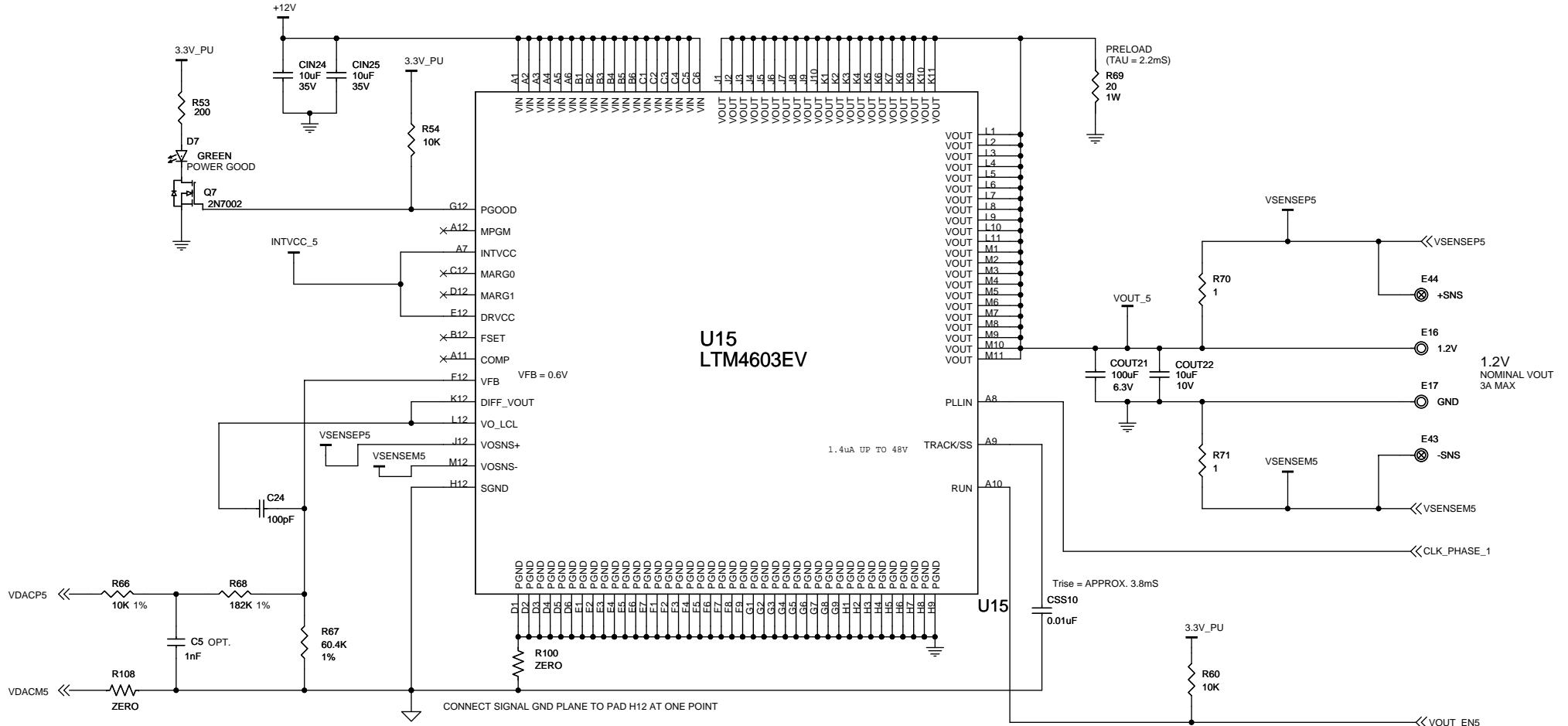
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DRAWN Dave Clemans	07-19-13	TITLE	
CHECKED		8 OUTPUT POWER SUPPLY	
APPROVED			
ENGINEER Dave Clemans	07-19-13	SIZE	CAGE CODE
DESIGNER		DWG NO	REV
			DC1361B
Thursday, August 01, 2013	SCALE:	FILENAME:	SHEET 7 OF 10

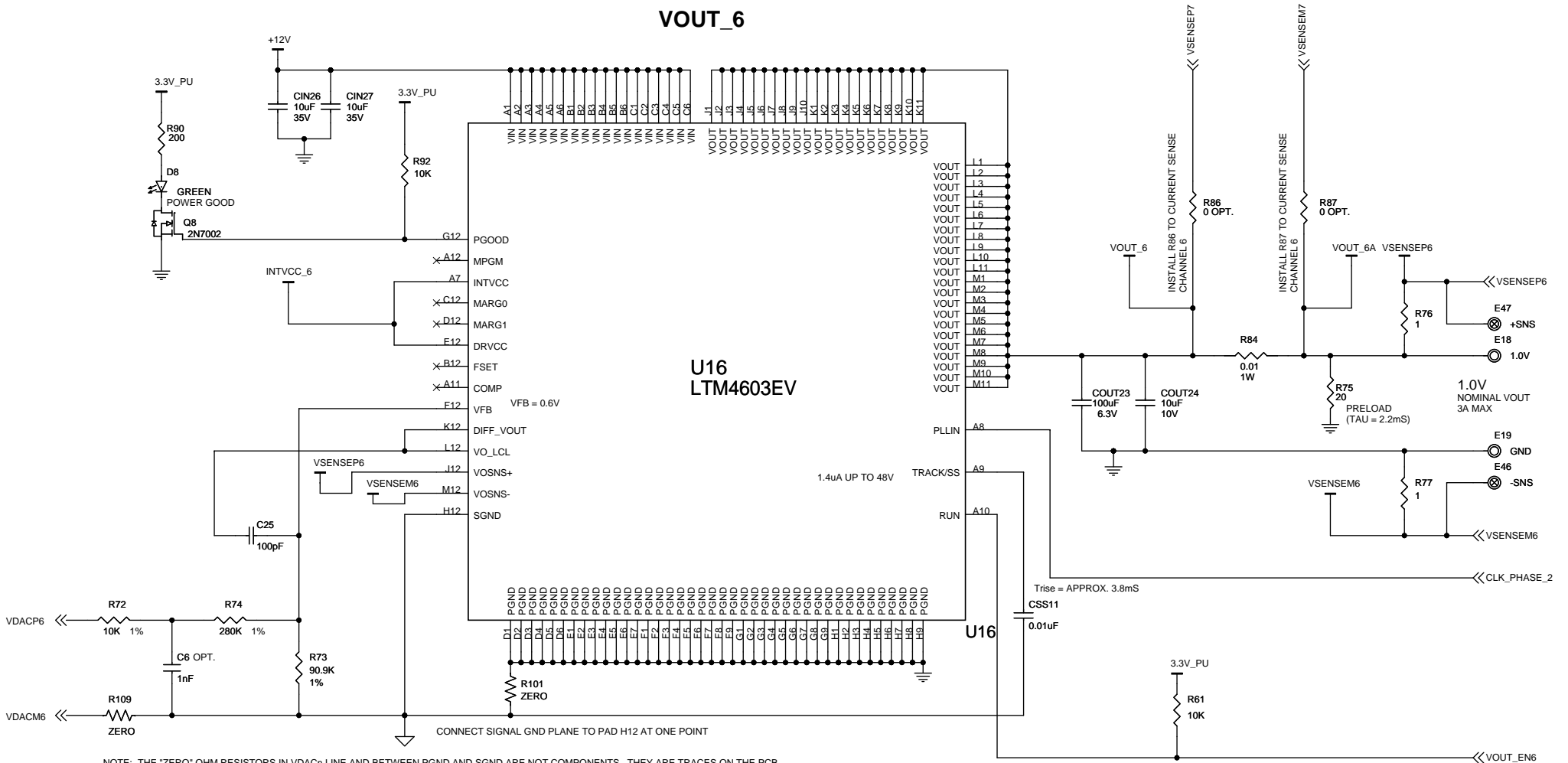
VOUT_5



NOTE: THE "ZERO" OHM RESISTORS IN VDACA_n LINE AND BETWEEN PGND AND SGND ARE NOT COMPONENTS. THEY ARE TRACES ON THE PCB.

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		DRAWN	Dave Clemans 07-19-13				
		CHECKED					
		APPROVED					
		ENGINEER	Dave Clemans 07-19-13				
DESIGNER		SIZE	CAGE CODE	DWG NO	REV		
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				SHEET	8	OF	10



TO SENSE CURRENT ON VOUT_6 USING CHANNEL 7, INSTALL R86 AND R87 ON SHEET 9 AND REMOVE R88 AND R89 ON SHEET 10.

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APPROVED	
ENGINEER Dave Clemans	07-19-13
DESIGNER	
Thursday, August 01, 2013	

LINEAR TECHNOLOGY

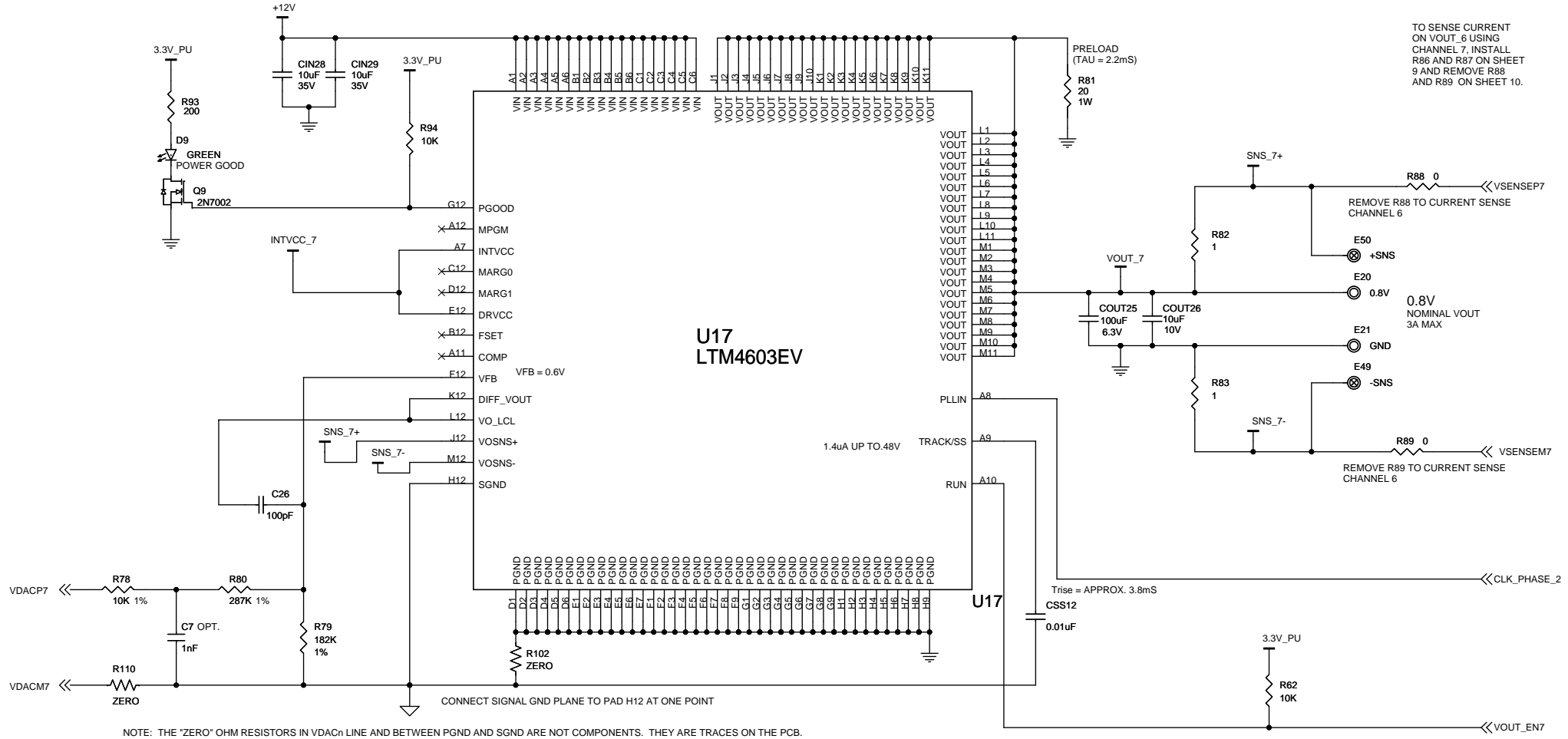
1630 McCarthy Blvd.
Milpitas, CA 95035
Phone: (408)432-1900
Fax: (408)434-0507

TITLE: **8 OUTPUT POWER SUPPLY**


SIZE	CAGE CODE	DWG NO	REV
		DC1361B	B

SCALE: FILENAME: SHEET **9** OF **10**

VOUT_7



TO SENSE CURRENT ON VOUT_6 USING CHANNEL 7, INSTALL R86 AND R87 ON SHEET 9 AND REMOVE R88 AND R89 ON SHEET 10.

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THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.		Thursday, August 01, 2013	SCALE:	FILENAME:	DWG NO DC1361B
				SHEET 10 OF 10	REV B