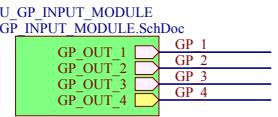
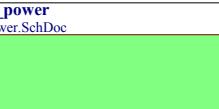
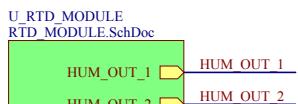
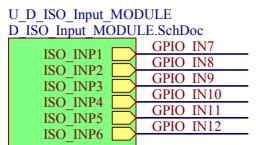
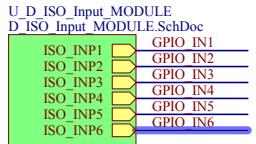
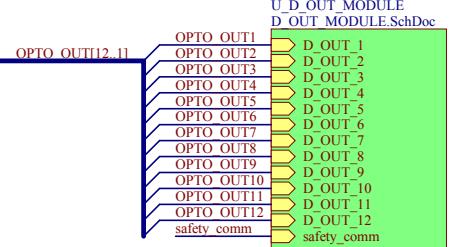


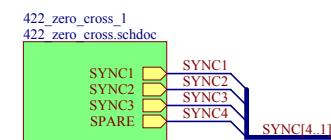
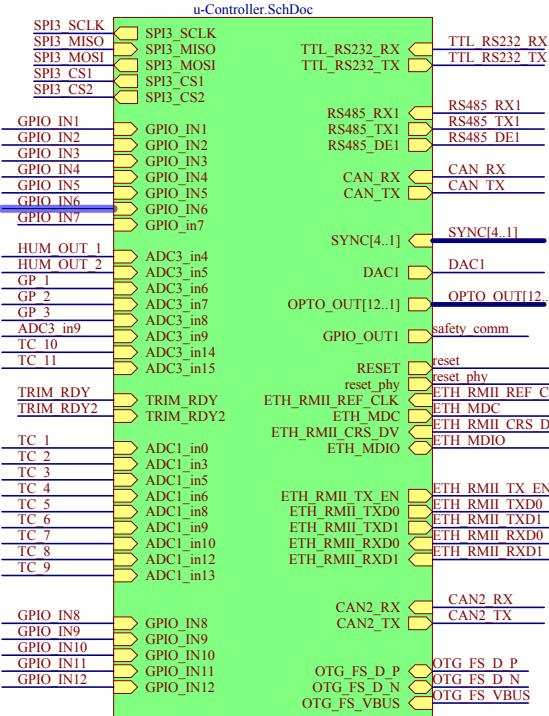
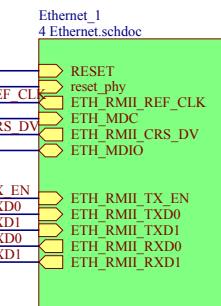
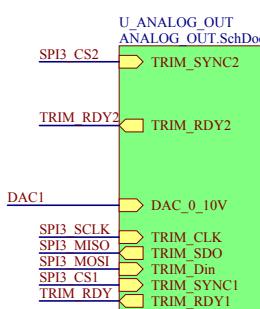
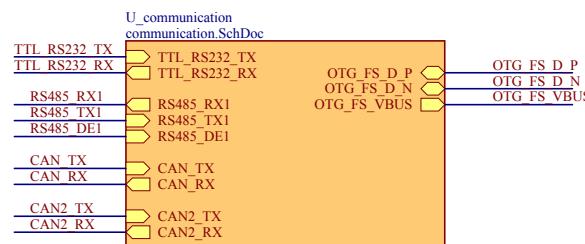
X 12



X 4



MISCELENIOUS
MISCELENIOUS.SchDoc



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Date:	10/25/2012	Sheet of
File:	V:\PCB files\..\TLC_Top.SchDoc	Drawn By:

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A

B

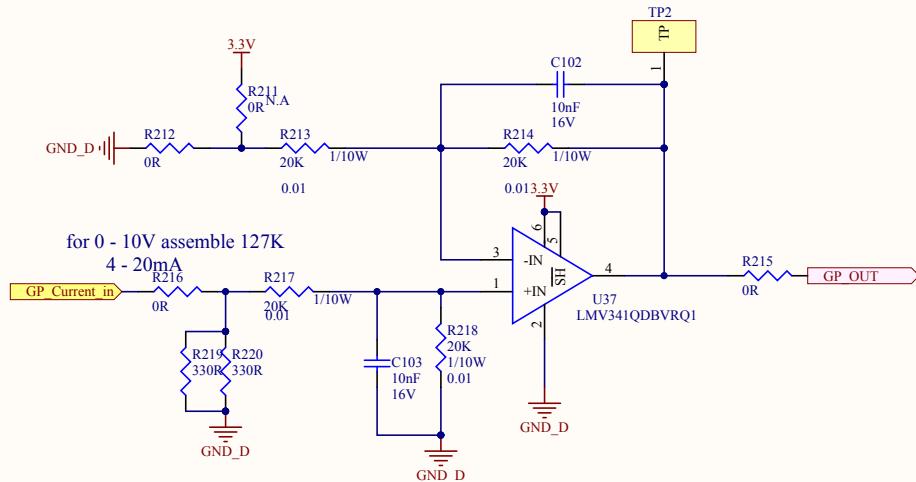
B

C

C

D

D



Title ***General purpose input channel***

Size: **A4** Number: **2** Revision: **00**

Date: **10/25/2012** Time: **6:13:00 PM** Sheet **2** of **19**

File: **V:\PCB files\FEC\FEC board\GP Channel.SchDoc**

LandaLabs
3 Pekeris st.
Park Tamar
Rehovot
Israel

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10\Templates\Logo_BB.jpg

A

A

B

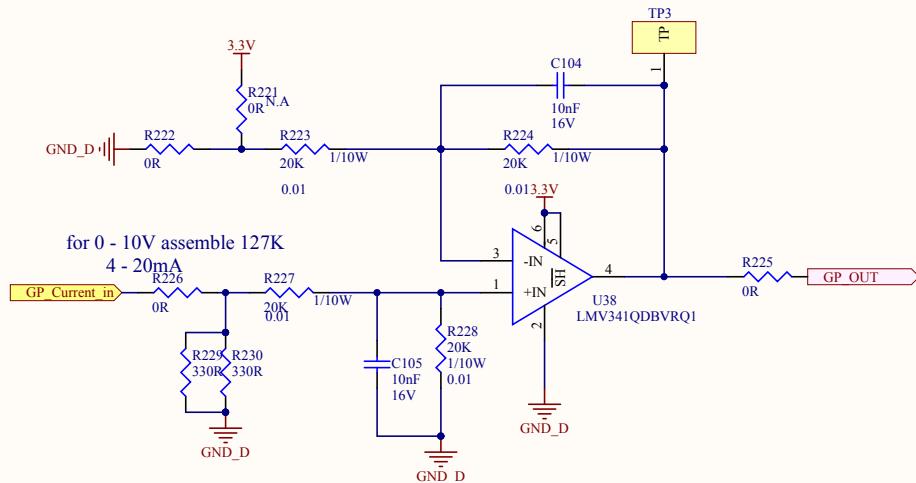
B

C

C

D

D



Title ***General purpose input channel***

Size: **A4** Number: **2** Revision: **00**

Date: **10/25/2012** Time: **6:13:01 PM** Sheet **2** of **19**

File: **V:\PCB files\FEC\FEC board\GP Channel.SchDoc**

LandaLabs
3 Pekeris st.
Park Tamar
Rehovot
Israel

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10\Templates\Logo_BB.jpg

A

A

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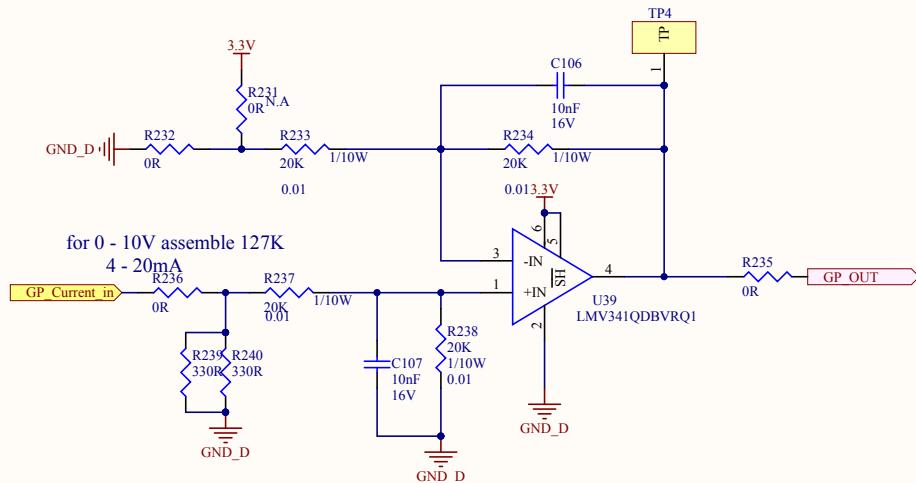
B

C

C

D

D



Title	General purpose input channel	LandaLabs
Size:	A4	3 Pekeris st.
Number:	2	Park Tamar
Revision:	00	Rehovot
Date:	10/25/2012	Israel
Time:	6:13:01 PM	
Sheet:	2	of 19
File:	V:\PCB files\FEC\FEC board\GP Channel.SchDoc	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg

A

A

B

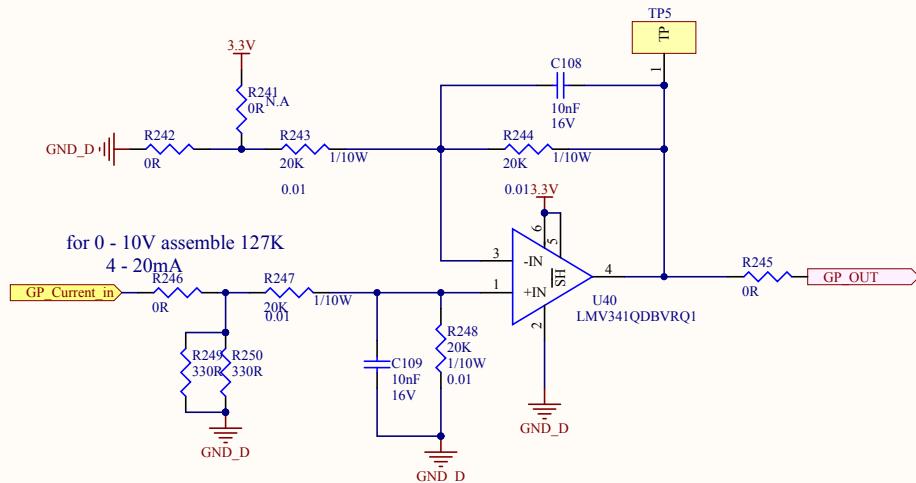
B

C

C

D

D



Title ***General purpose input channel***

Size: **A4** Number: **2** Revision: **00**

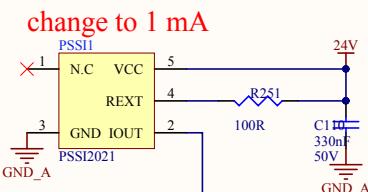
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File: **V:\PCB files\FEC\FEC board\GP Channel.SchDoc**

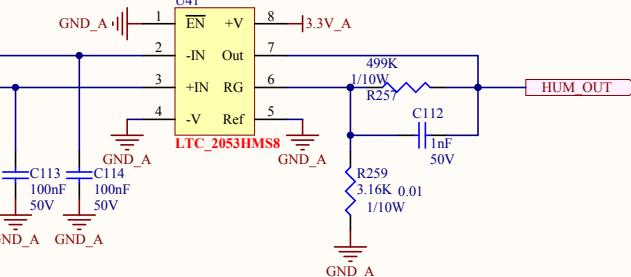
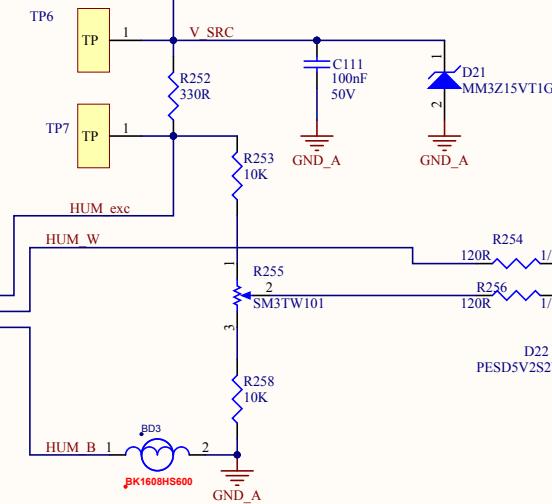
LandaLabs
3 Pekeris st.
Park Tamar
Rehovot
Israel

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10\Templates\Logo_BB.jpg

A



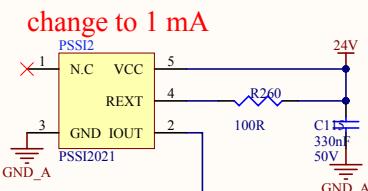
$$I_{out}(mA) = 0.617/R_{ext}(k\Omega) + 0.015 \text{ mA}$$

Title **humidity channel**Size: **A4**Number: **3**

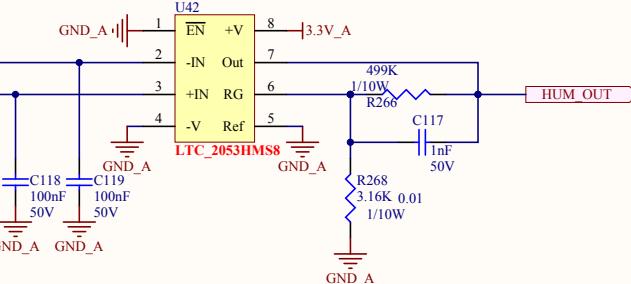
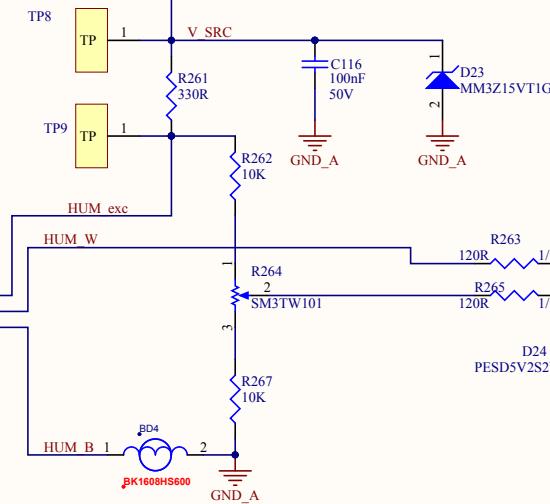
Revision: *

Date: **10/25/2012**Time: **6:13:01 PM**Sheet**3** of **19**File: **V:\PCB files\FEC\FEC board\Humidity_Channel.SchDoc**LandaLabs
3 Pekoris st.
Park Tamar
Rehovot
IsraelCannot open file
C:\Users\Public\Documents\Altium\AD
10\Templates\Logo_BB.jpg

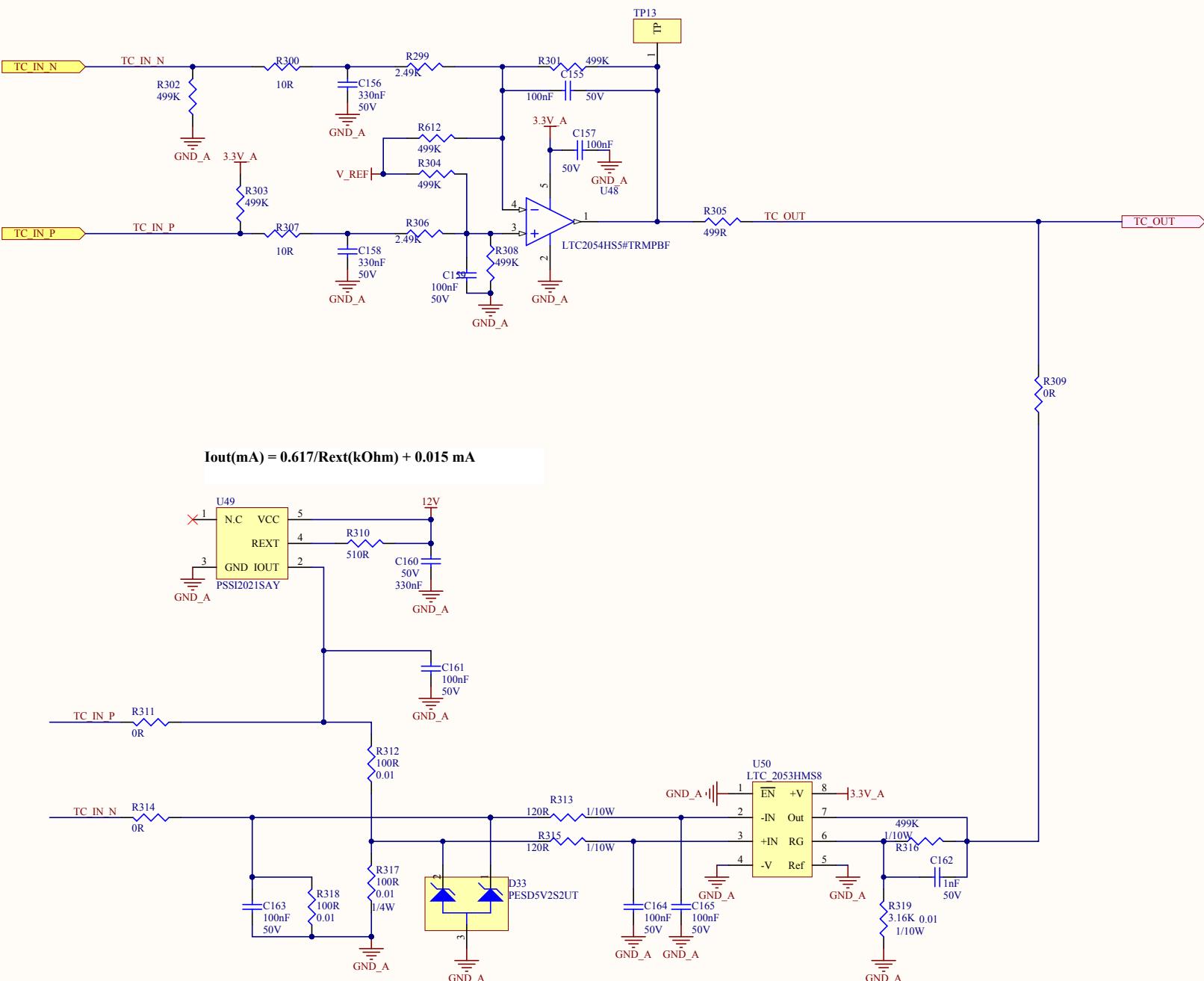
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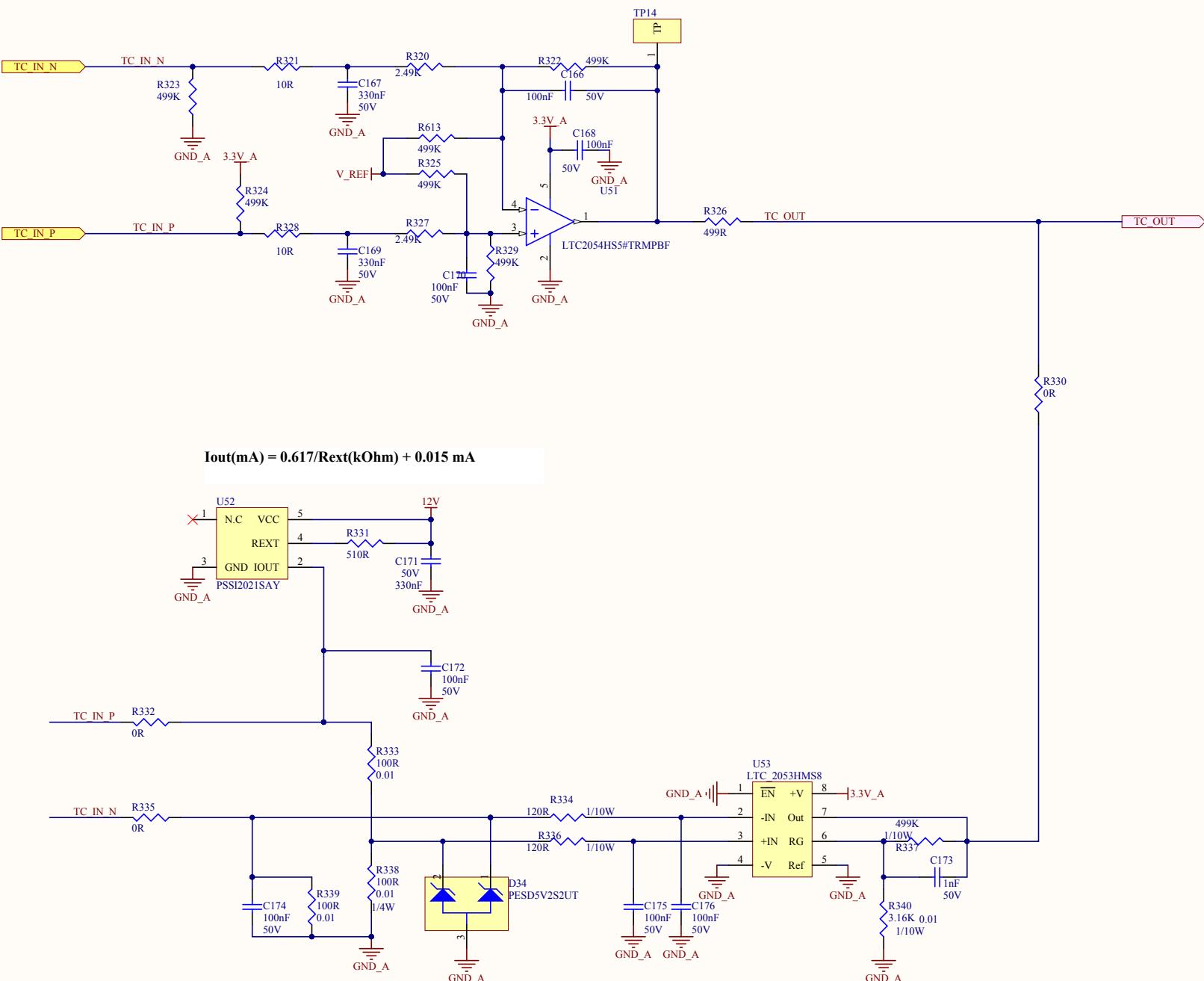
$$I_{out}(mA) = 0.617/R_{ext}(k\Omega) + 0.015 \text{ mA}$$

Title **humidity channel**

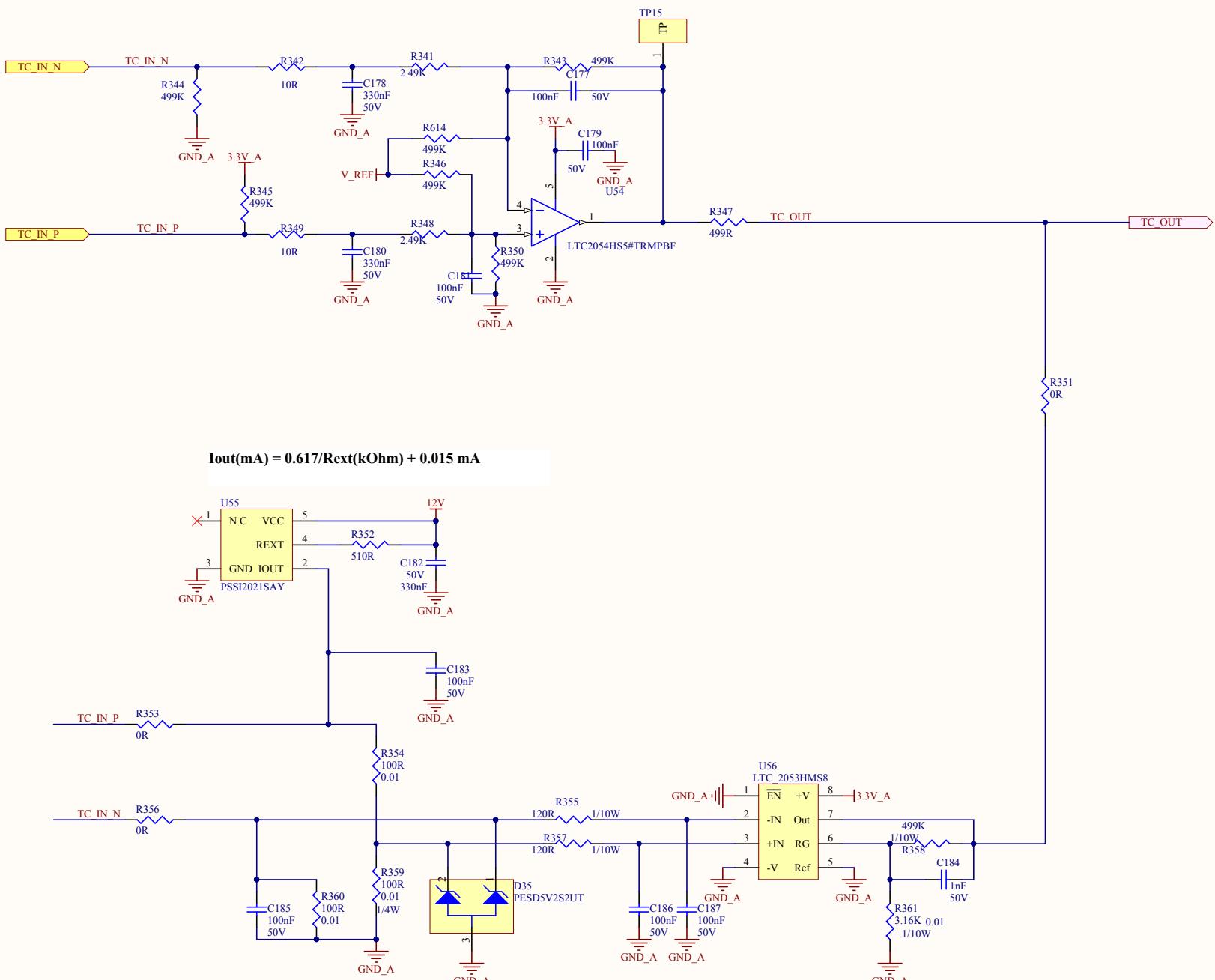
Size: A4	Number: 3	Revision: *	LandaLabs 3 Pekoris st. Park Tamar Rehovot Israel
Date: 10/25/2012	Time: 6:13:01 PM	Sheet 3 of 19	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg
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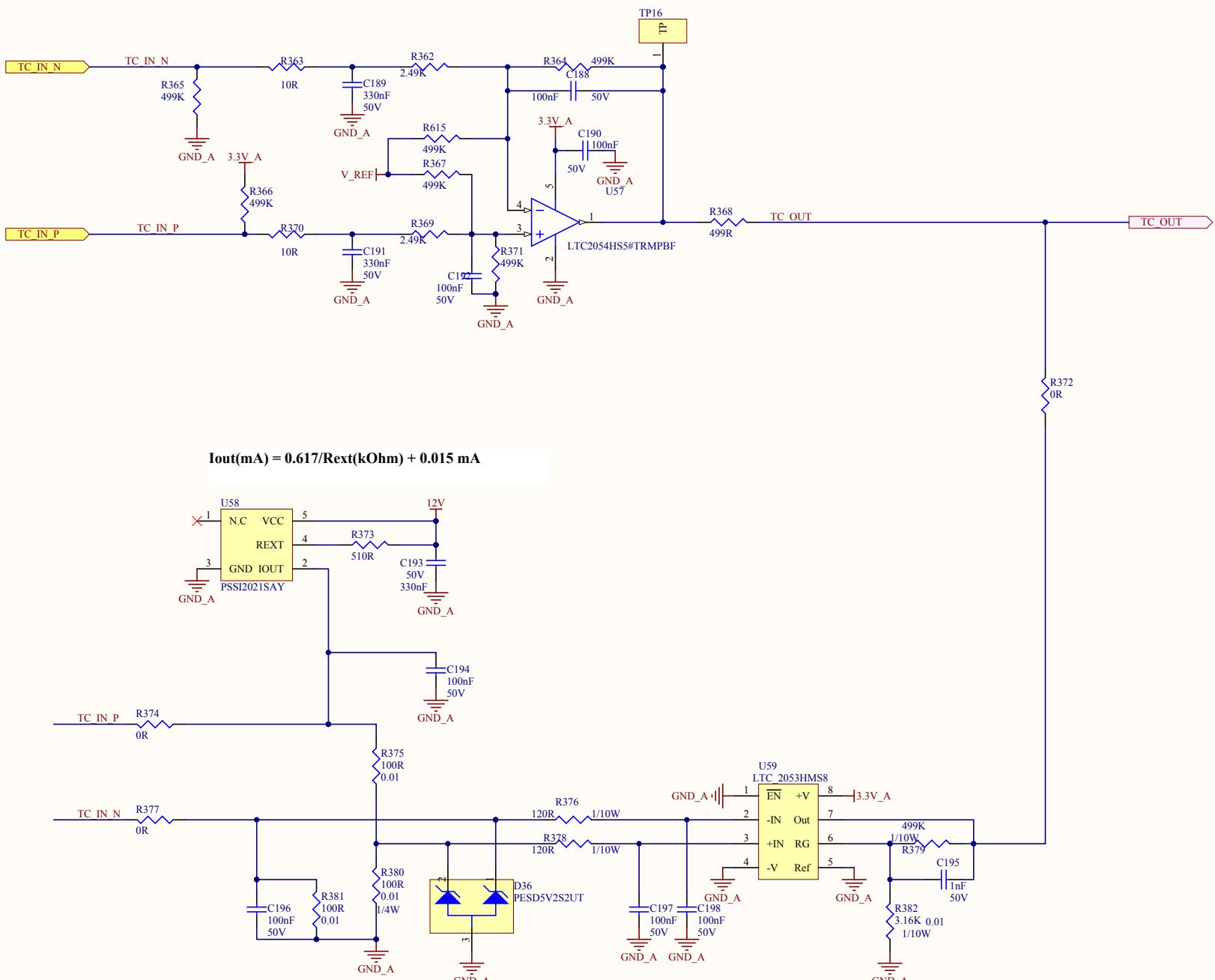
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Size: A3	Number: Number	Revision: *	3 Pekeris st. Park Tamar Rehovot Israel
Date: 10/25/2012	Time: 6:13:01 PM	Sheet 4 of 19	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg
File: V:\PCB files\FEC\FEC board\TC Channel.SchDoc			



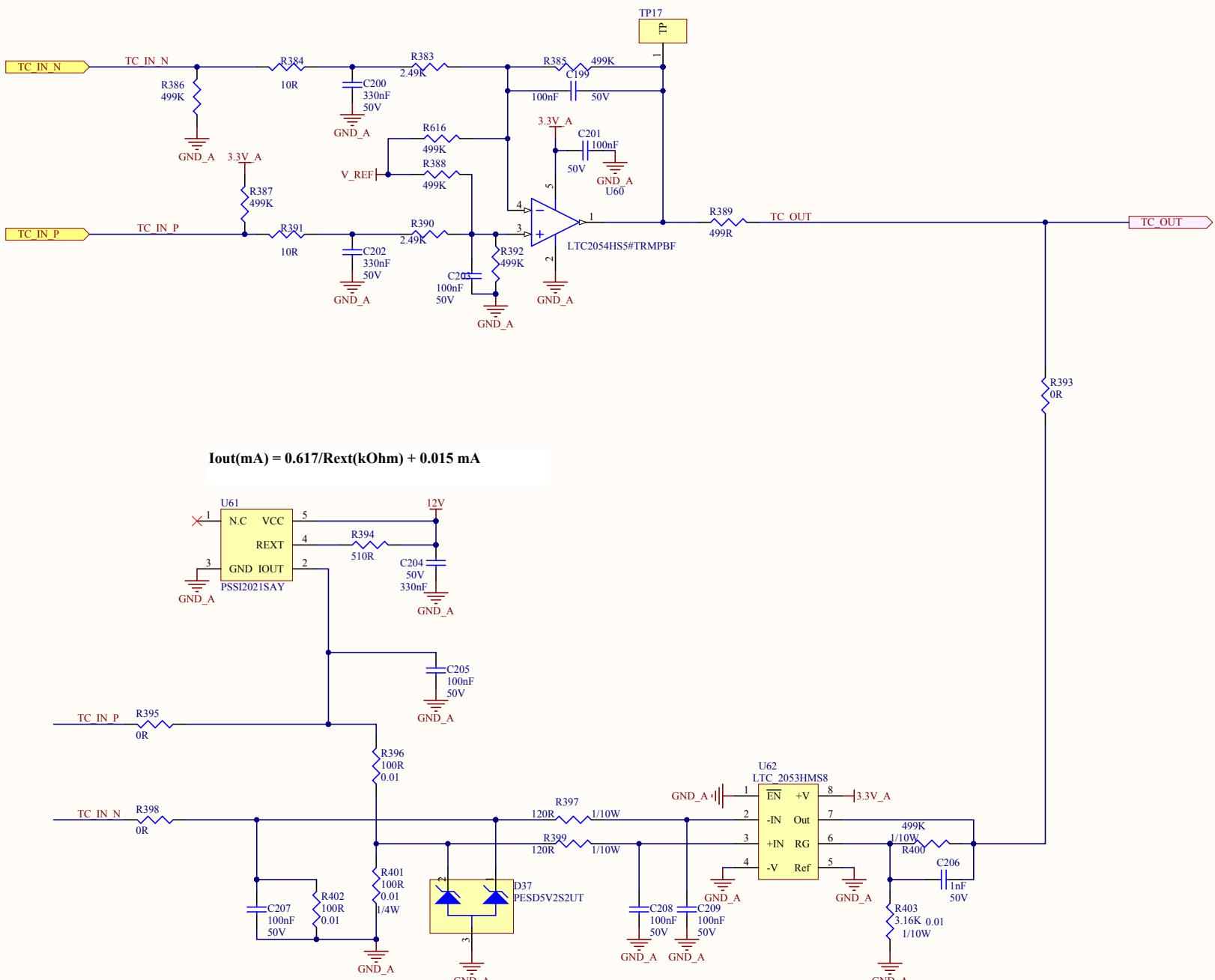
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Size: A3	Number: Number	Revision: *	C:\Users\Public\Documents\Altium\AD
Date: 10/25/2012	Time: 6:13:02 PM	Sheet 4 of 19	Rehovot Israel
File: V:\PCB files\FEC\FEC board\TC Channel.SchDoc			10\Templates\Logo_BB.jpg



Title: T.C /IR input channel			LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg
Size: A3	Number: Number	Revision: *		
Date: 10/25/2012	Time: 6:13:02 PM	Sheet 4 of 19		
File: V:\PCB files\FEC\FEC board\TC Channel.SchDoc				

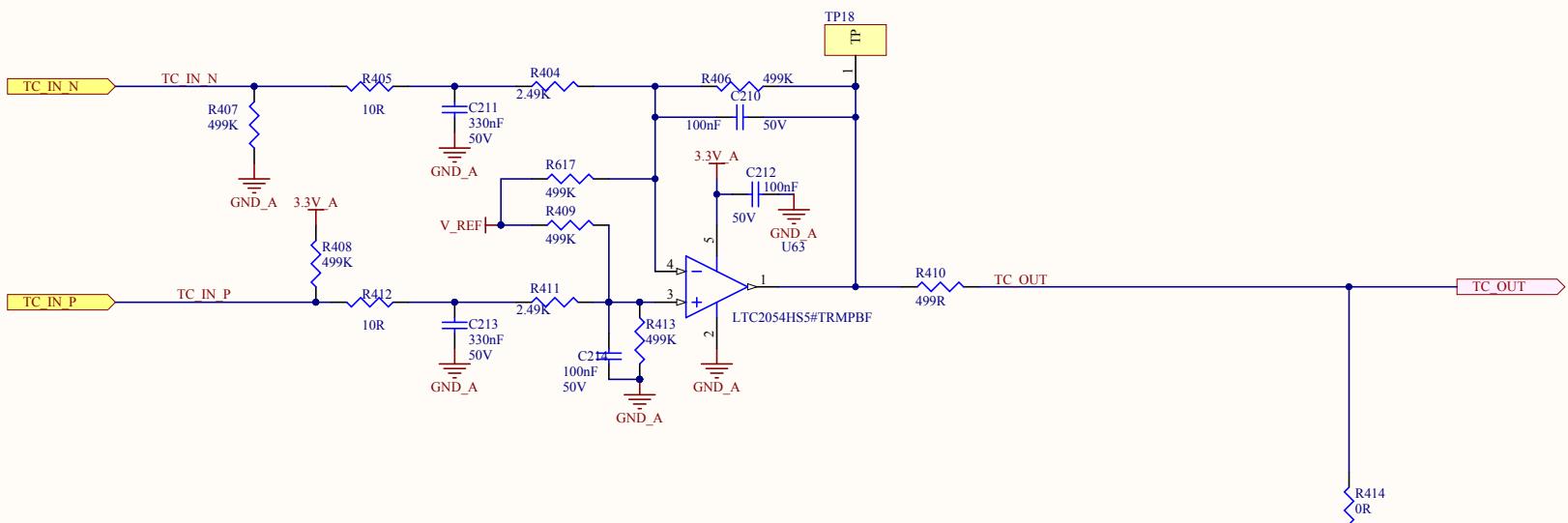


Title: T.C /IR input channel			LandaLabs
Size: A3	Number: Number	Revision: *	3 Pekeris st. Park Tamar Rehovot Israel
Date: 10/25/2012	Time: 6:13:02 PM	Sheet 4 of 19	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg
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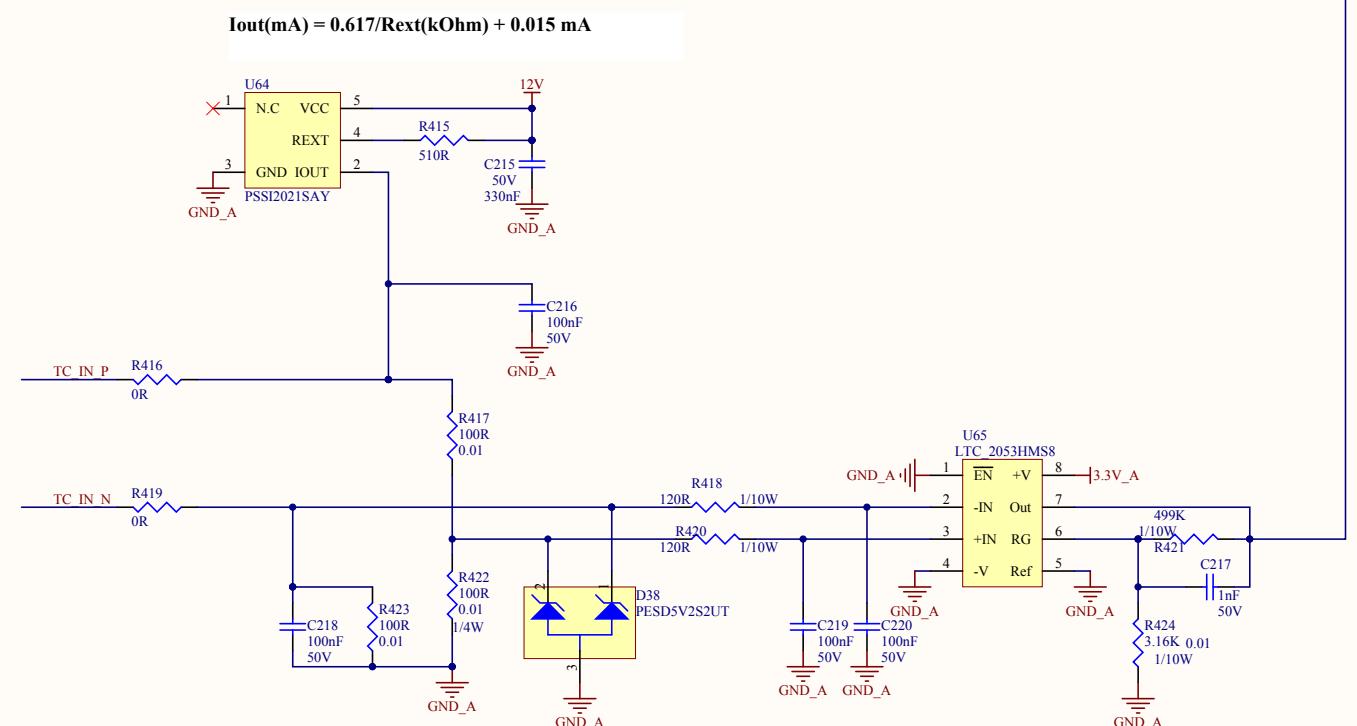


Title: T.C /IR input channel			LandaLabs
Size: A3	Number: Number	Revision: *	C:\Users\Public\Documents\Altium\AD
Date: 10/25/2012	Time: 6:13:03 PM	Sheet 4 of 19	Rehovot Israel
File: V:\PCB files\FEC\FEC board\TC Channel.SchDoc			Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg

A



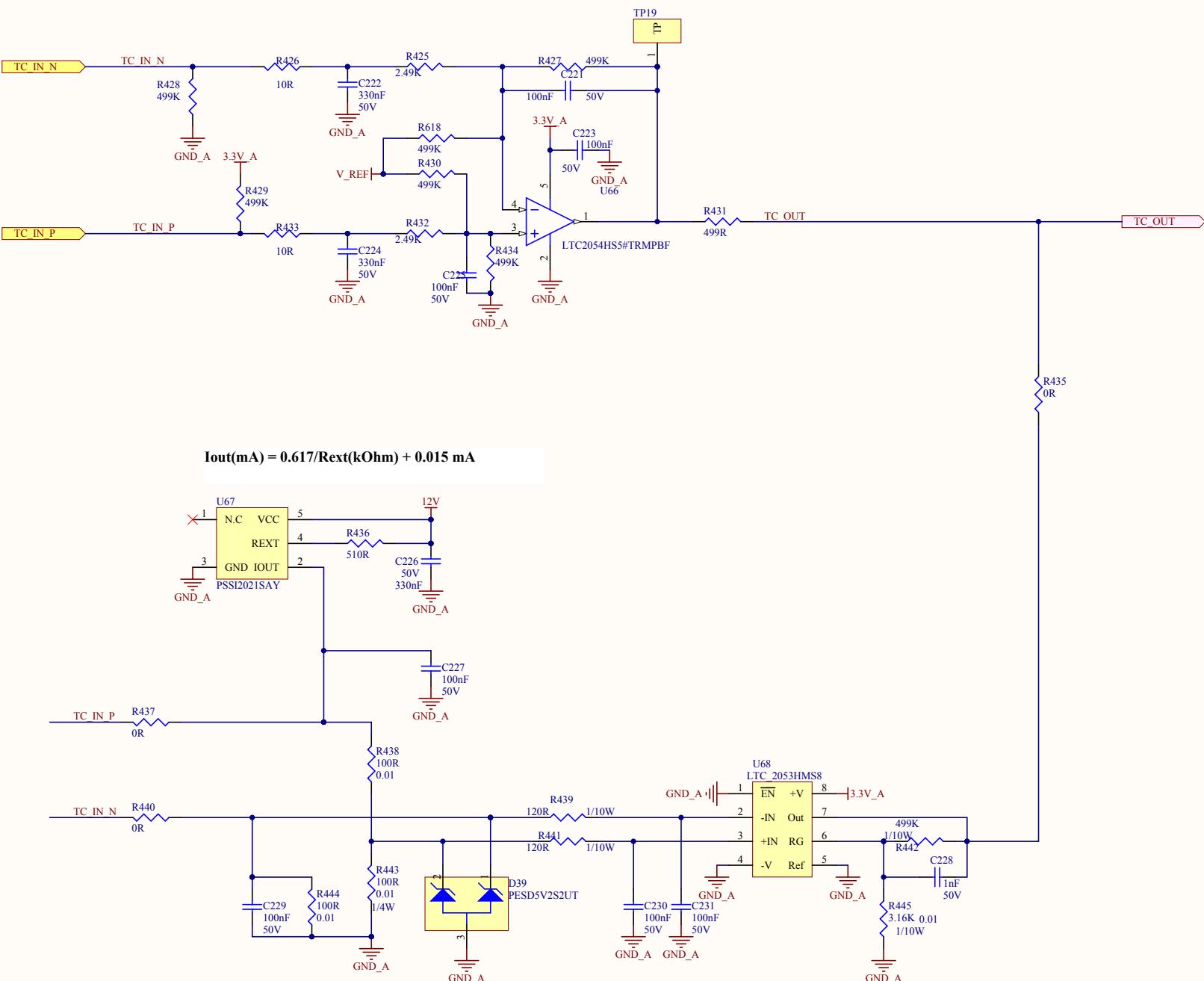
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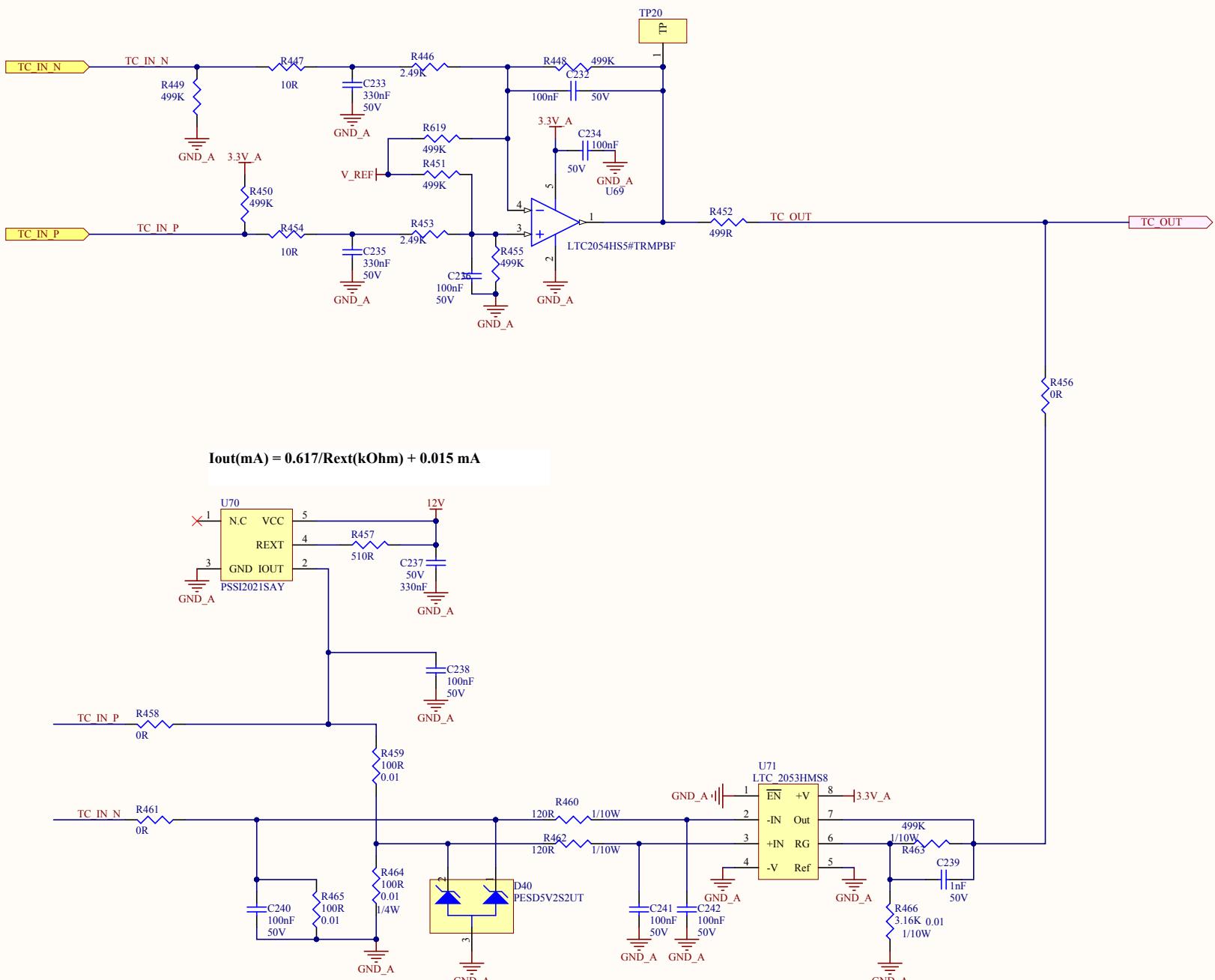
C

D

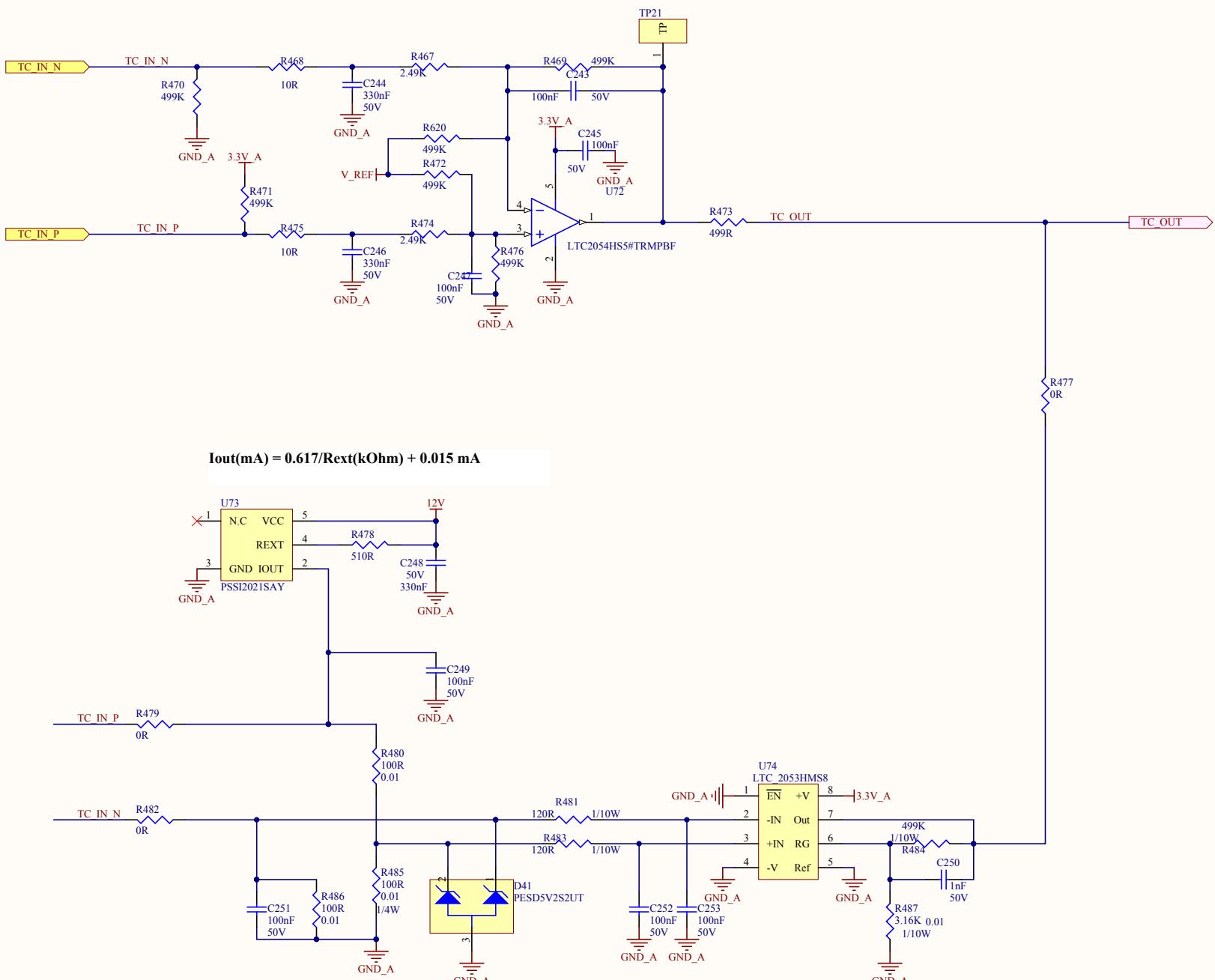
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Size: A3	Number: Number	Revision: *	C:\Users\Public\Documents\Altium\AD
Date: 10/25/2012	Time: 6:13:03 PM	Sheet 4 of 19	Rehovot Israel
File: V:\PCB files\FEC\FEC board\TC Channel.SchDoc			10\Templates\Logo_BB.jpg



Title: T.C /IR input channel			LandaLabs
Size: A3	Number: Number	Revision: *	3 Pekeris st. Park Tamar Rehovot Israel
Date: 10/25/2012	Time: 6:13:03 PM	Sheet 4 of 19	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg
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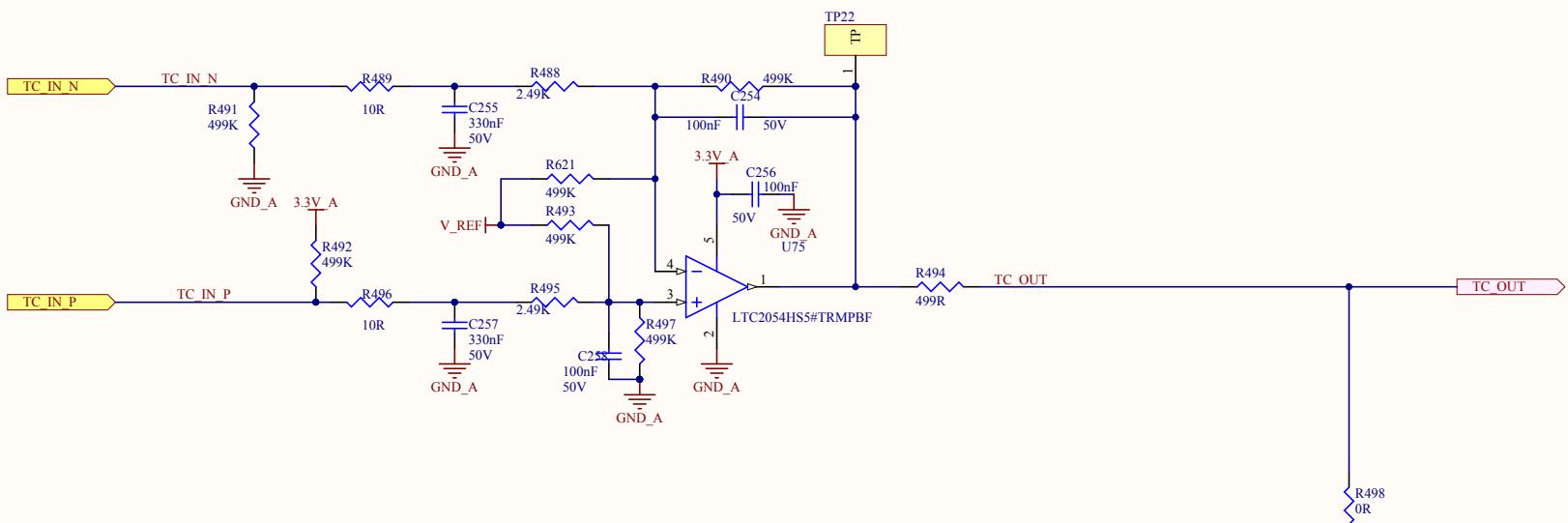


Title: T.C /IR input channel			LandaLabs
Size: A3	Number: Number	Revision: *	Park Tamar
Date: 10/25/2012	Time: 6:13:04 PM	Sheet 4 of 19	Rehovot
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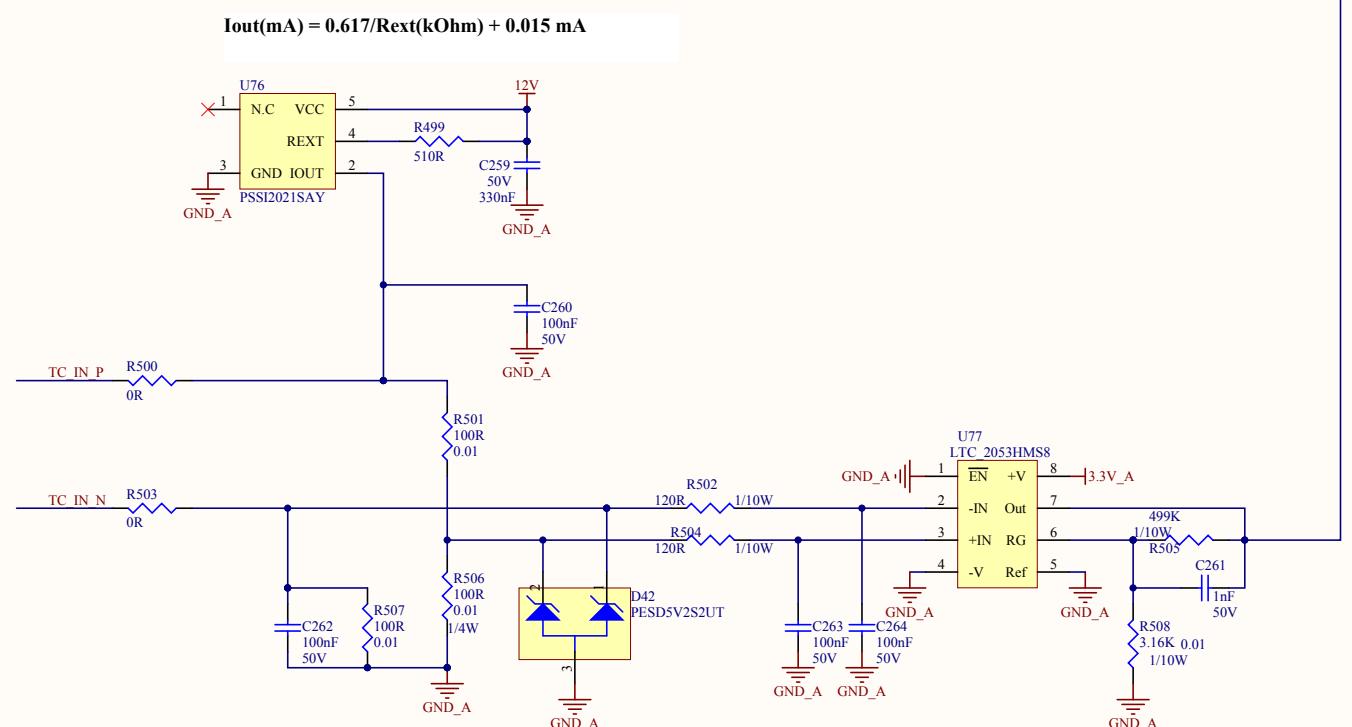
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Size: A3	Number: Number	Revision: *	C:\Users\Public\Documents\Altium\AD
Date: 10/25/2012	Time: 6:13:04 PM	Sheet 4 of 19	Rehovot Israel
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A



A

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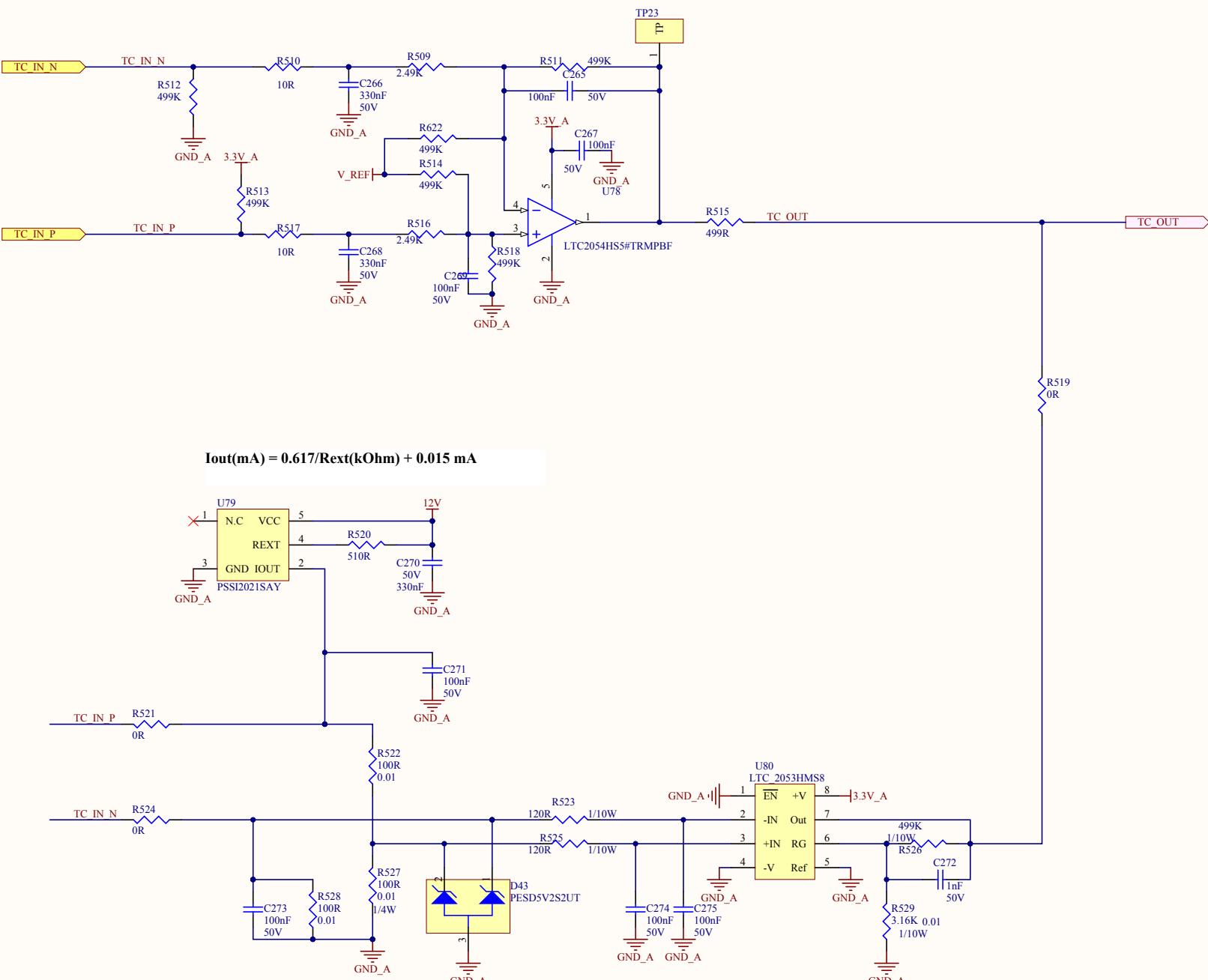
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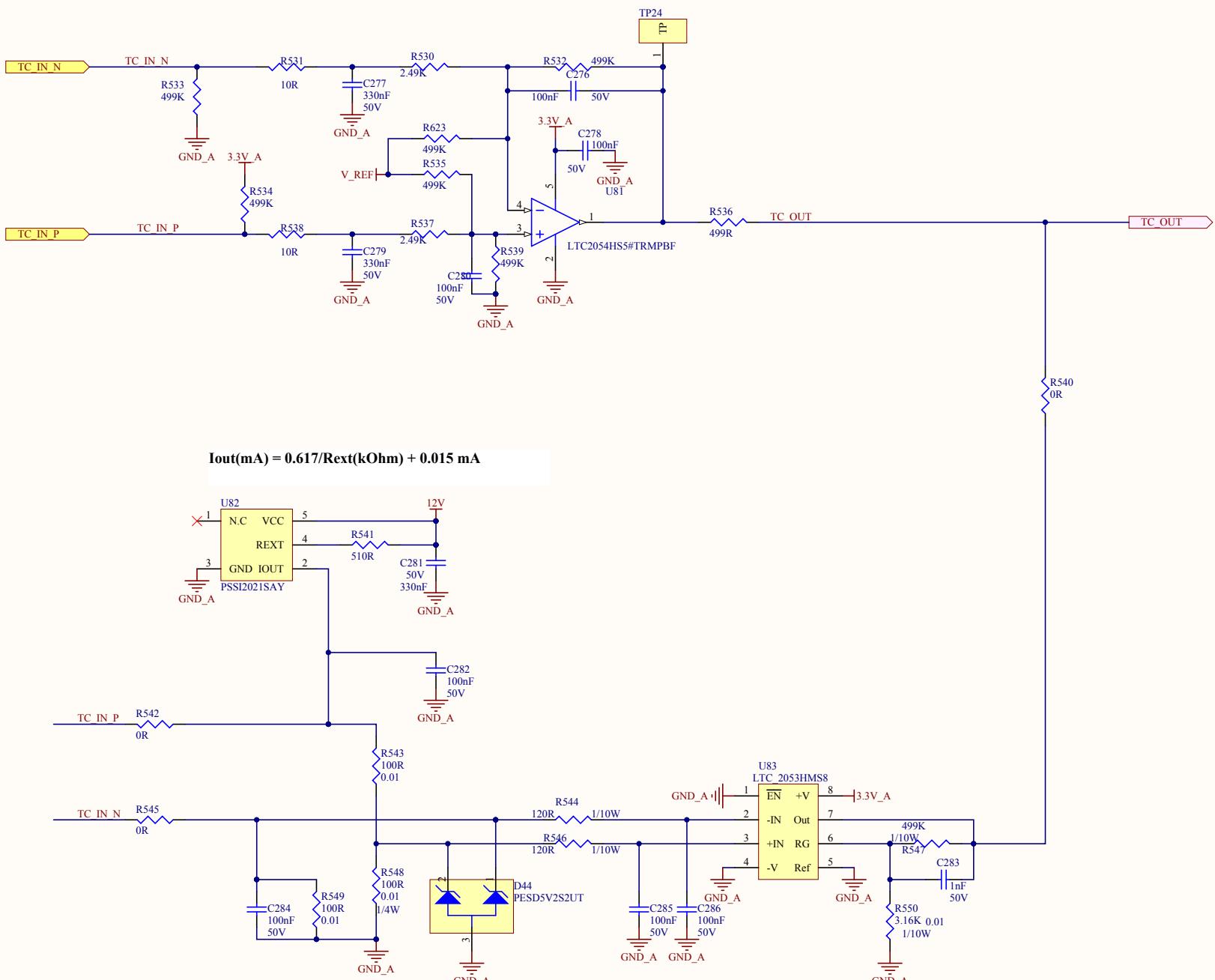
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D

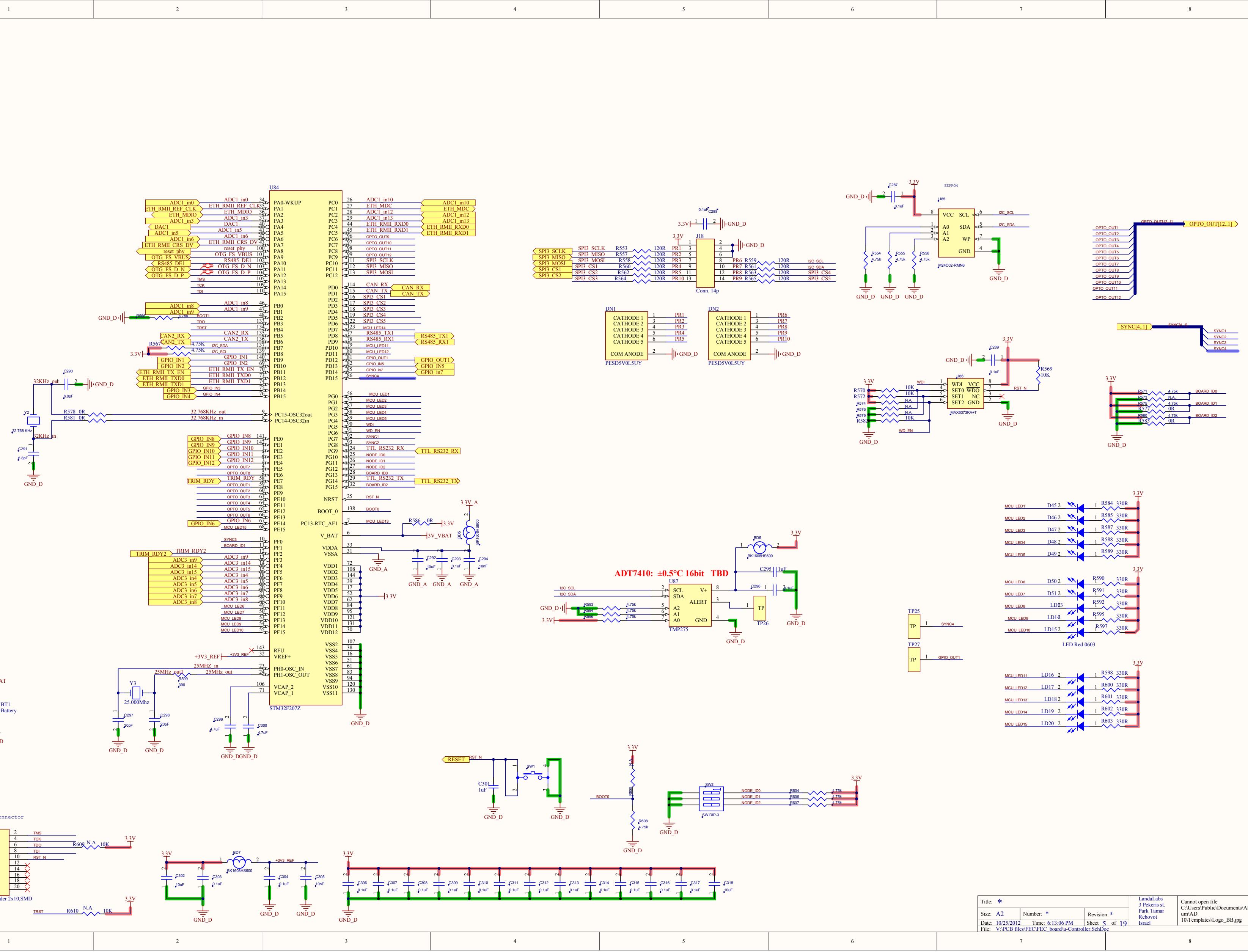
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Size: A3	Number: Number	Revision: *	C:\Users\Public\Documents\Altium\AD
Date: 10/25/2012	Time: 6:13:05 PM	Sheet 4 of 19	Rehovot Israel
File: V:\PCB files\FEC\FEC board\TC Channel.SchDoc			Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg

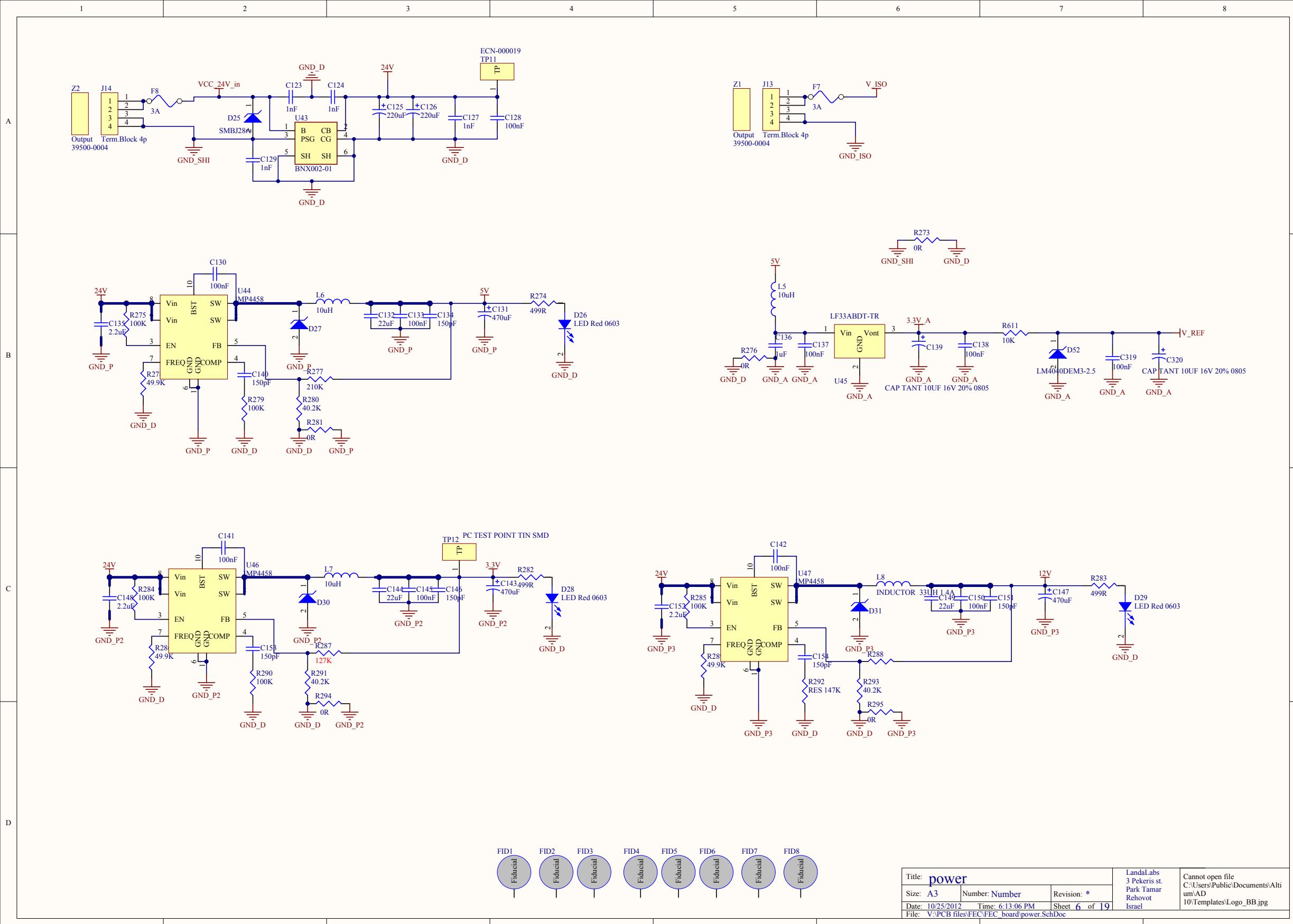


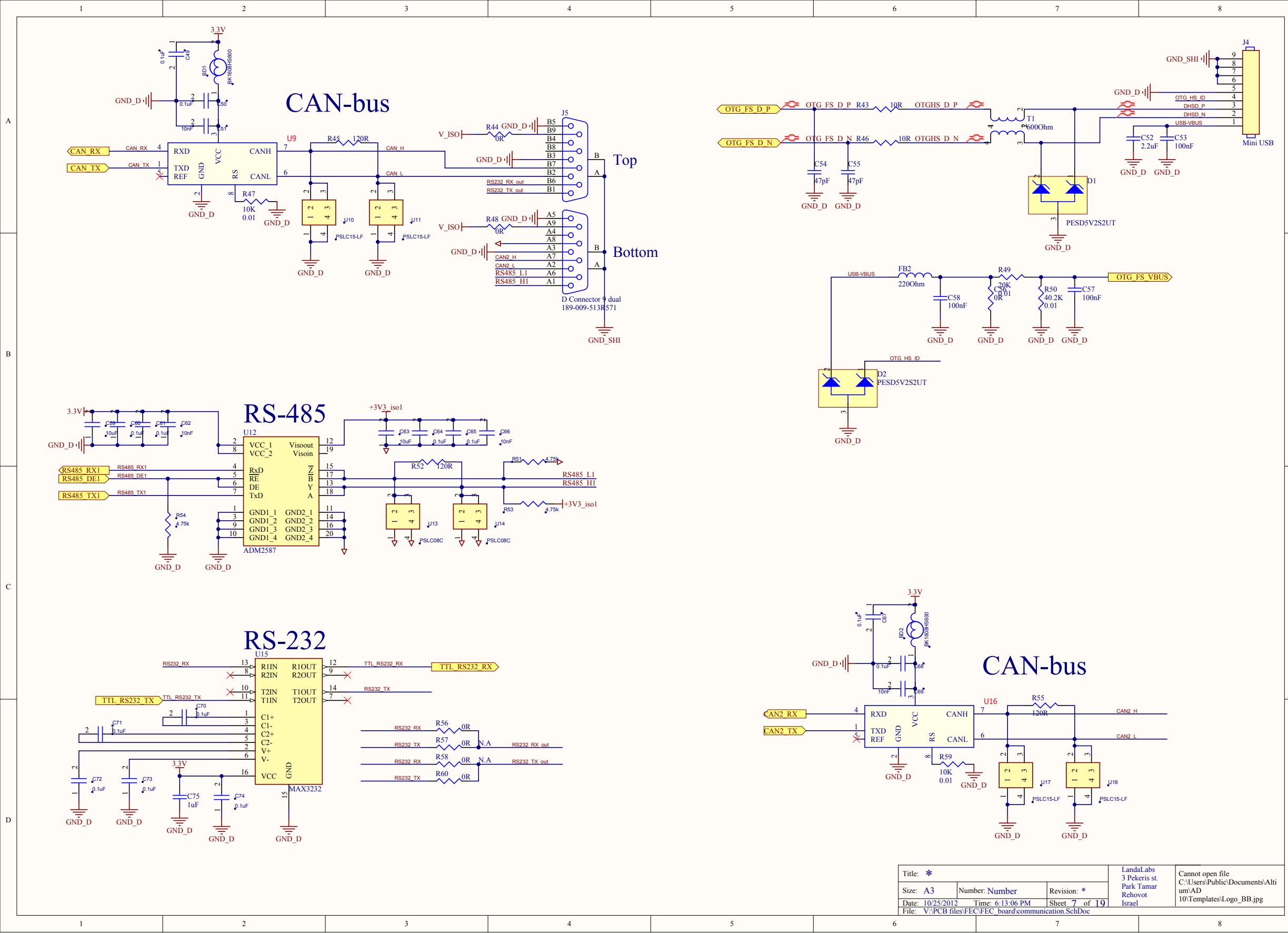
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Size: A3	Number: Number	Revision: *	Park Tamar Rehovot Israel
Date: 10/25/2012	Time: 6:13:05 PM	Sheet 4 of 19	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg
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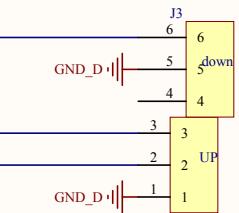
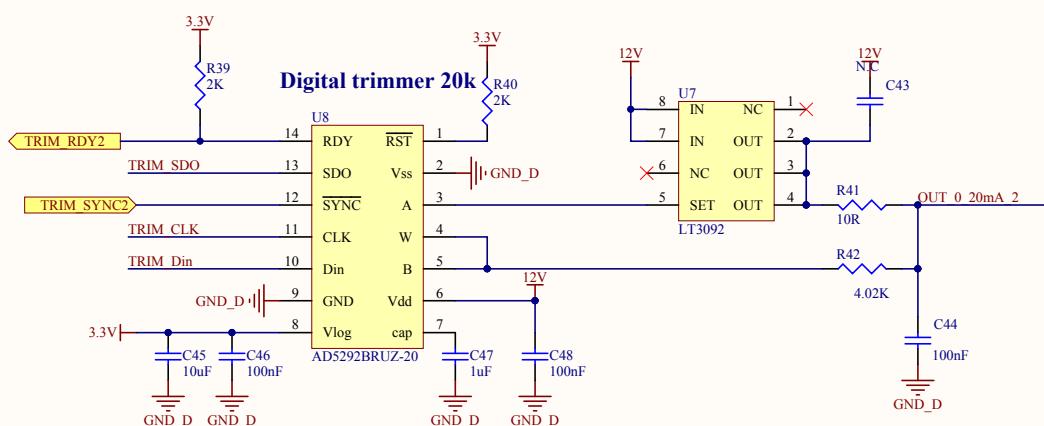
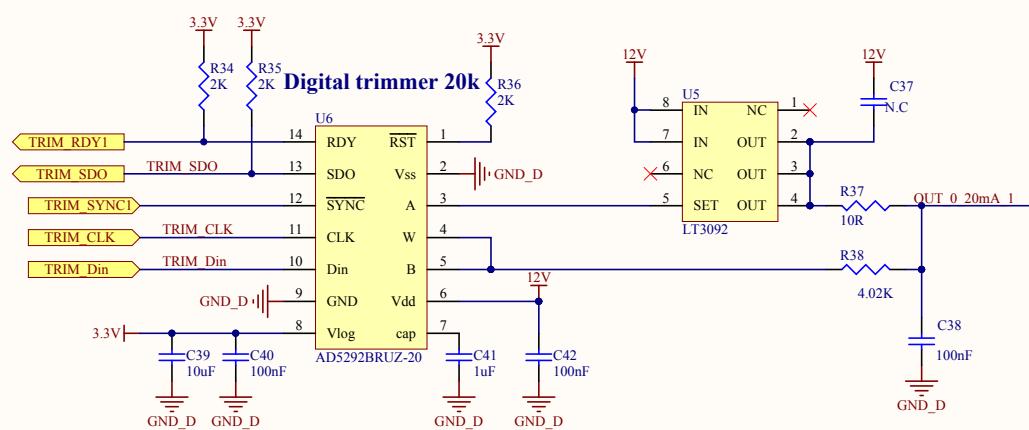
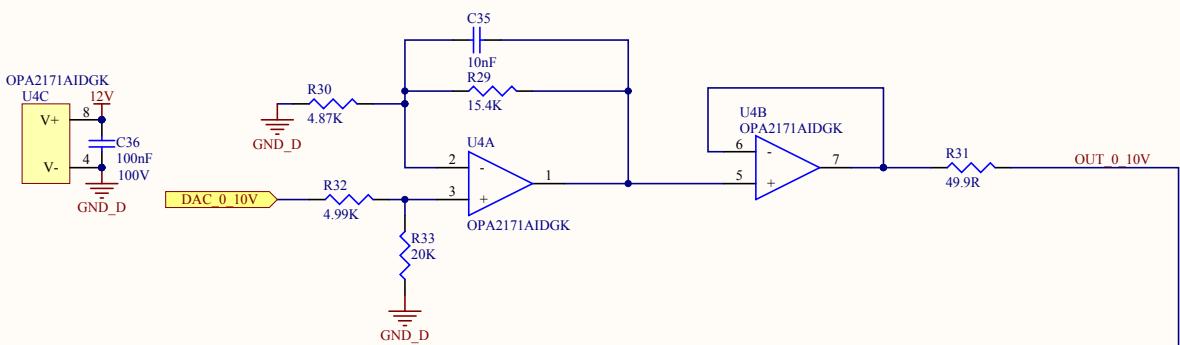


Title: T.C /IR input channel			LandaLabs
Size: A3	Number: Number	Revision: *	3 Pekeris st. Park Tamar Rehovot Israel
Date: 10/25/2012	Time: 6:13:05 PM	Sheet 4 of 19	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg
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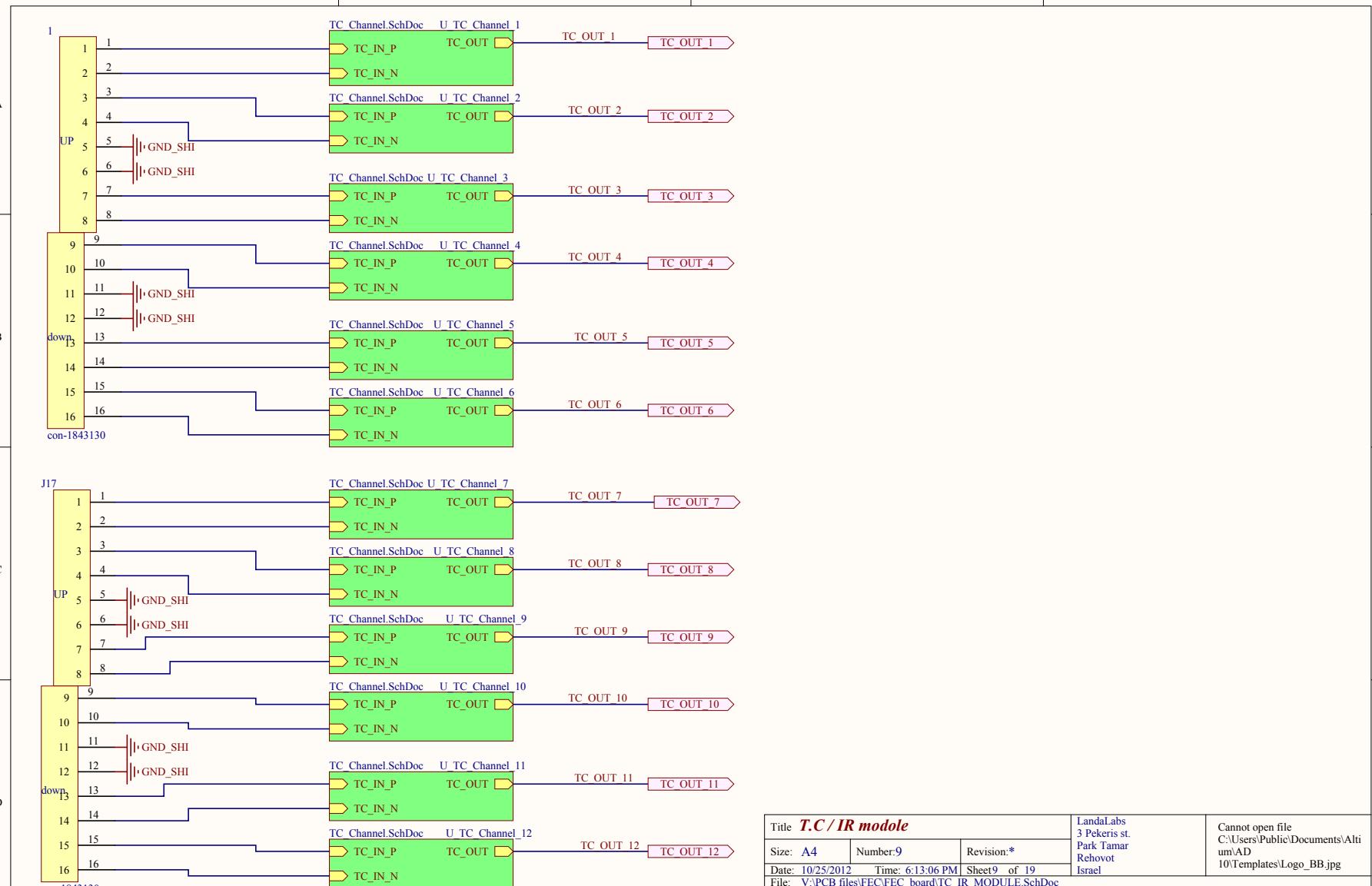






**I_OUT**

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Size: A3	Number: Number
Date: 10/25/2012	Revision: *
Time: 6:13:06 PM	Sheet 8 of 19
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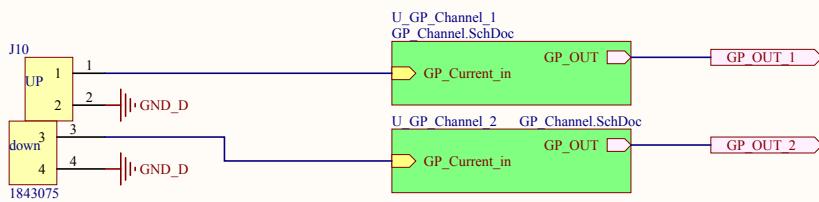


A

A

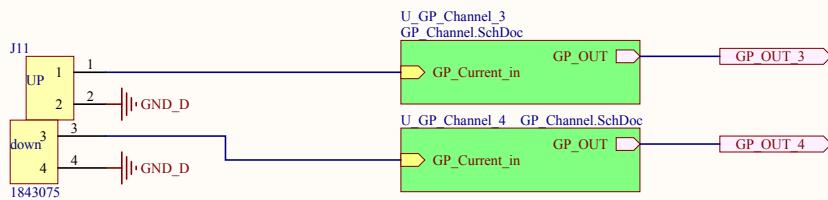
B

B



C

C



Title	General purpose input module	LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel
Size:	A4	Number: 10
Date:	10/25/2012	Revision: *
Time:	6:13:07 PM	Sheet 10 of 19
File:	V:\PCB files\FEC\FEC_board\GP INPUT_MODULE.SchDoc	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg

A

A

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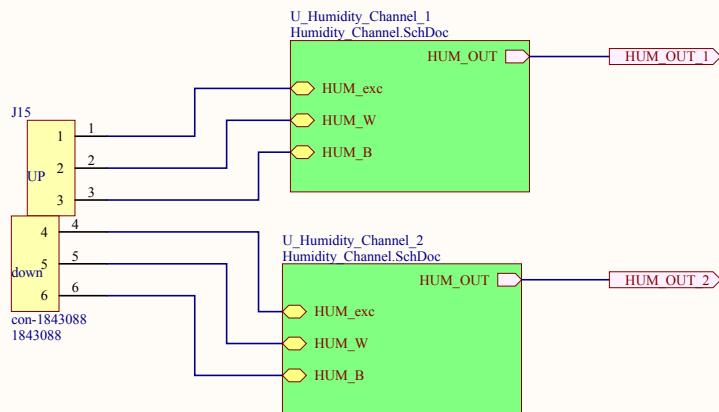
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C

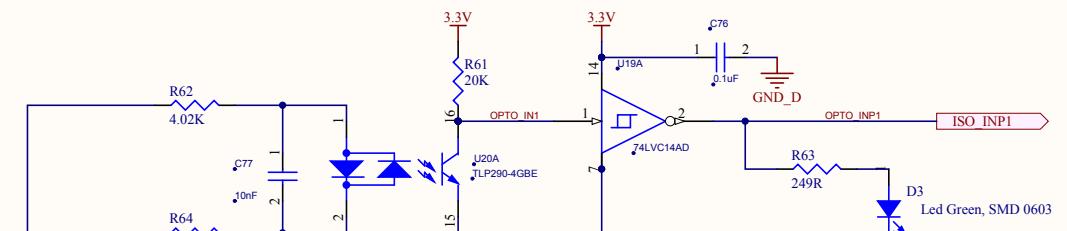
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D

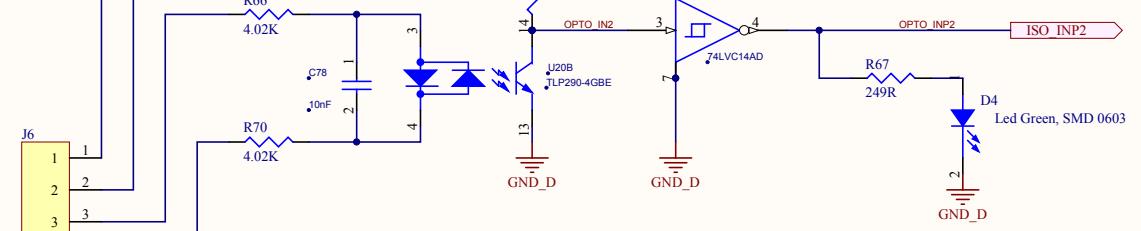


Title RTD module			LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg
Size: A4	Number: 11	Revision: 00		
Date: 10/25/2012	Time: 6:13:07 PM	Sheet 11 of 19		
File: V:\PCB files\FEC\FEC board\RTD MODULE.SchDoc				

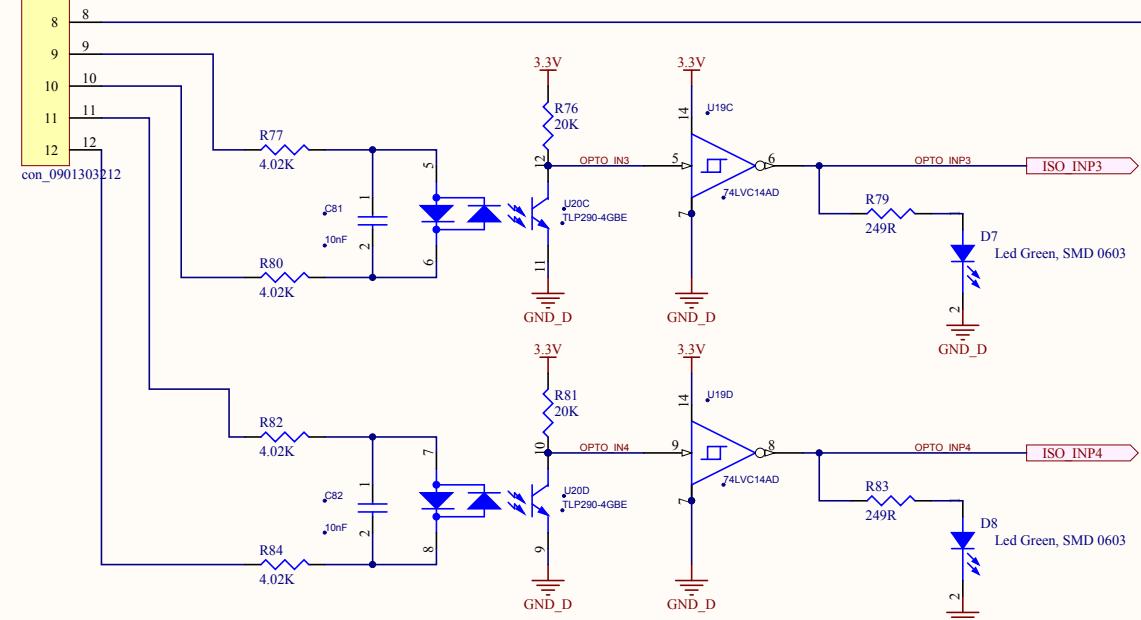
A



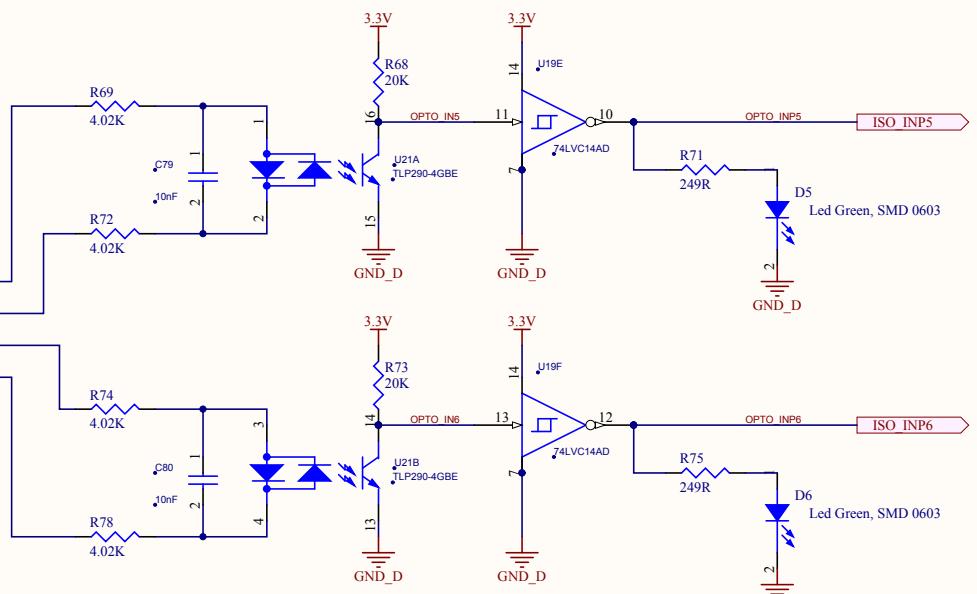
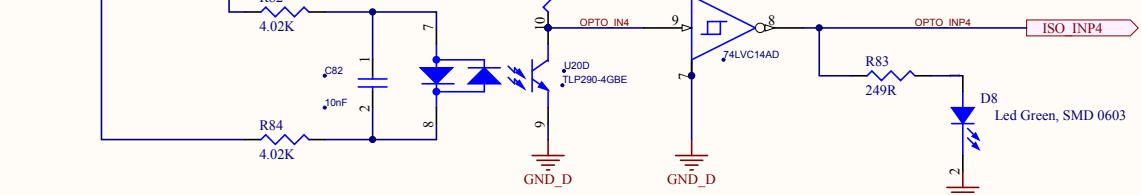
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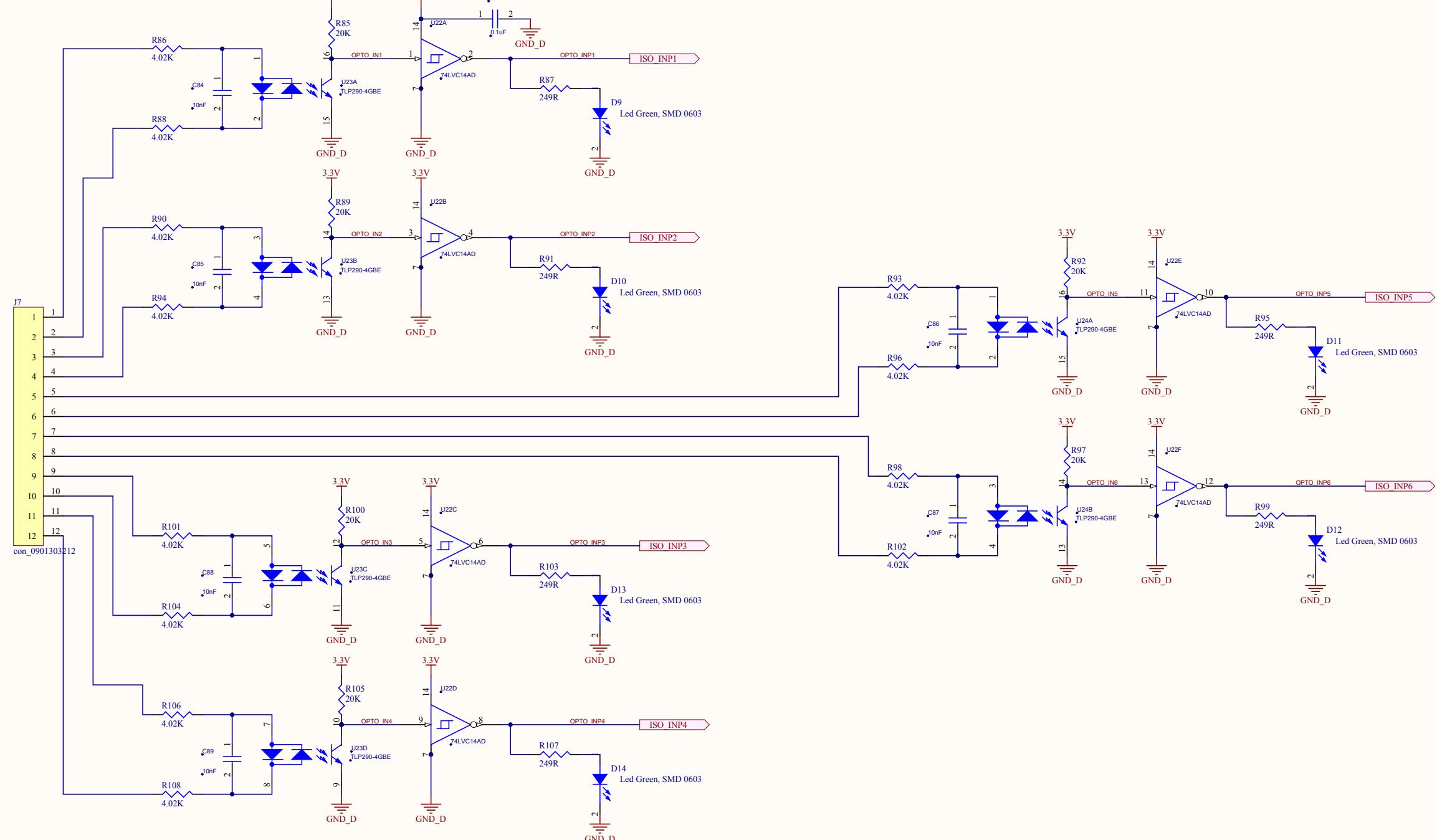
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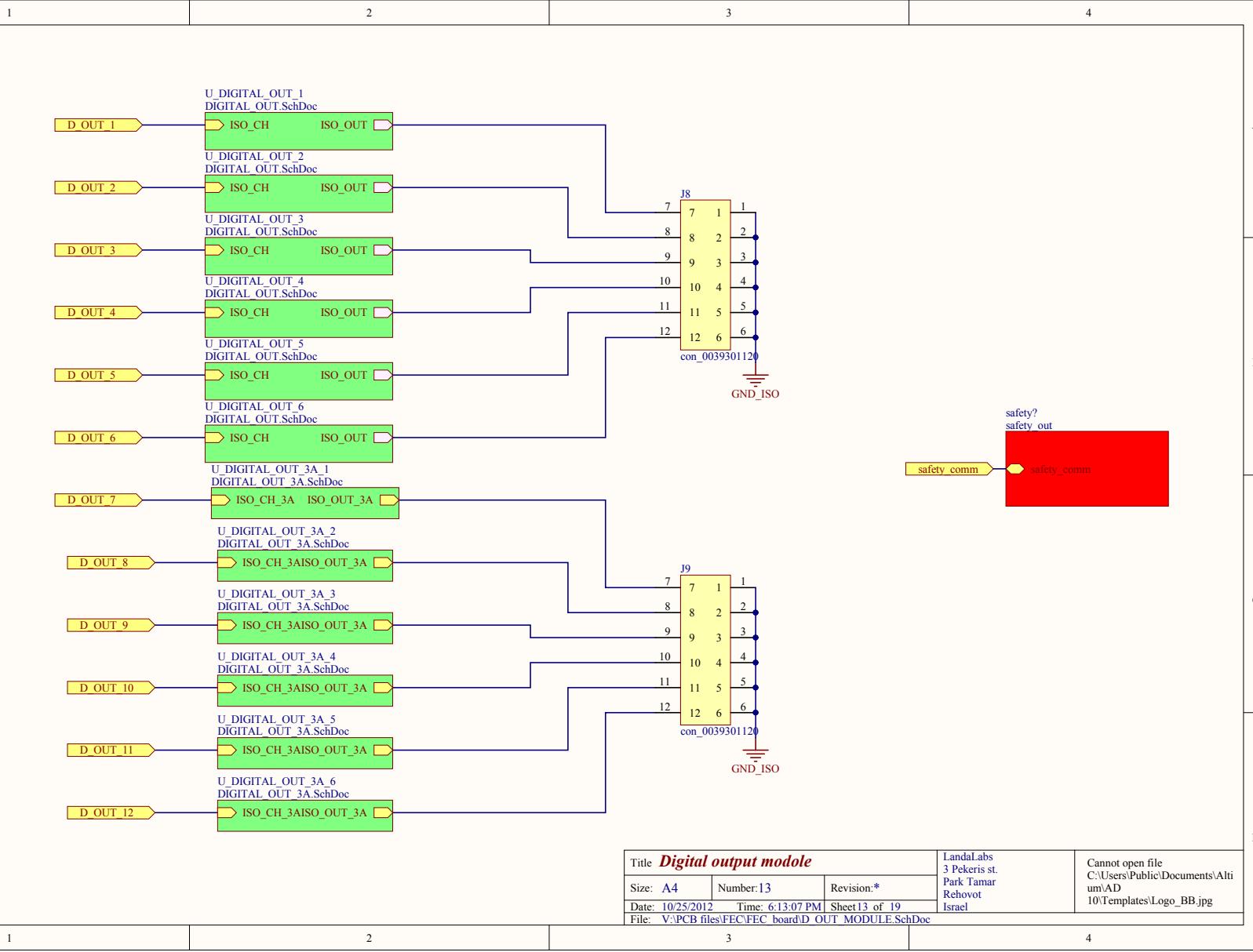
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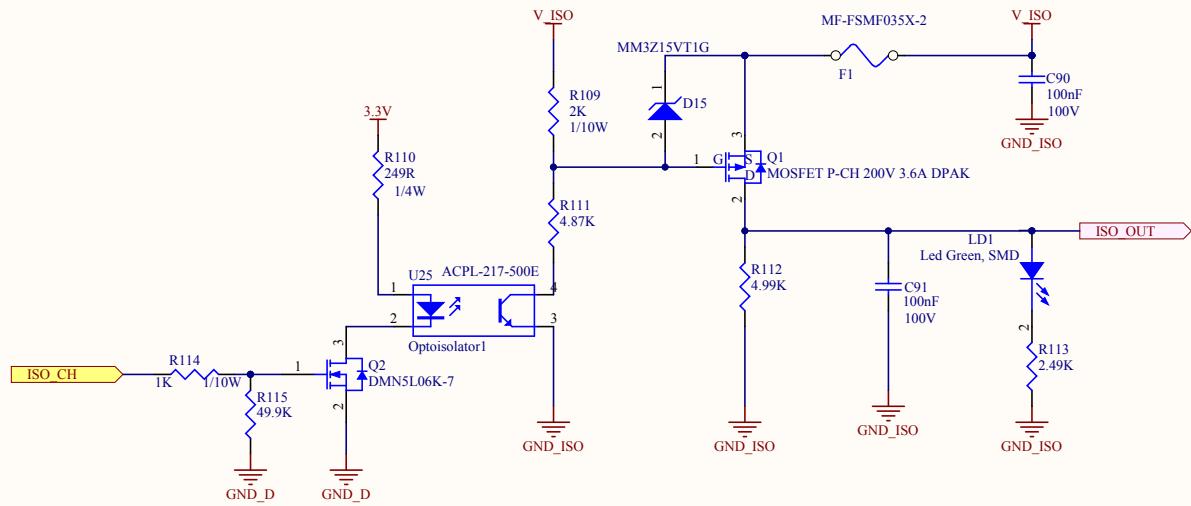


Title: ISO inputs module			LandaLabs
Size: A3	Number: Number	Revision: *	3 Pekoris st. Park Tamar Rehovot Israel
Date: 10/25/2012	Time: 6:13:07 PM	Sheet 12 of 19	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg
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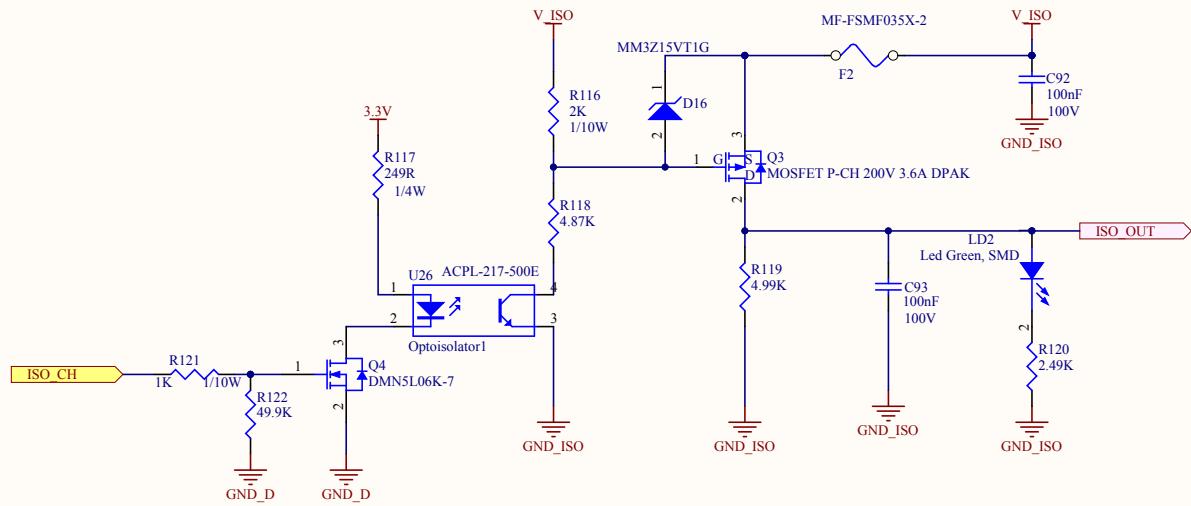
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Date: 10/25/2012	Revision: *
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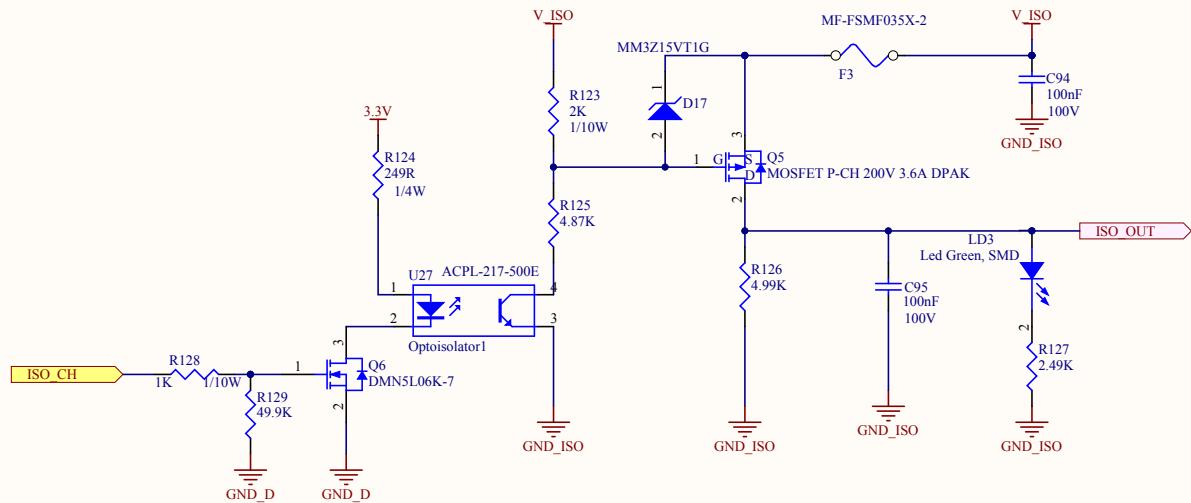
Title **Digital output channel**

Size: A4	Number: 14	Revision: *
Date: 10/25/2012	Time: 6:13:07 PM	Sheet 14 of 19
File: V:\PCB files\FEC\FEC board\DIGITAL_OUT.SchDoc		Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg



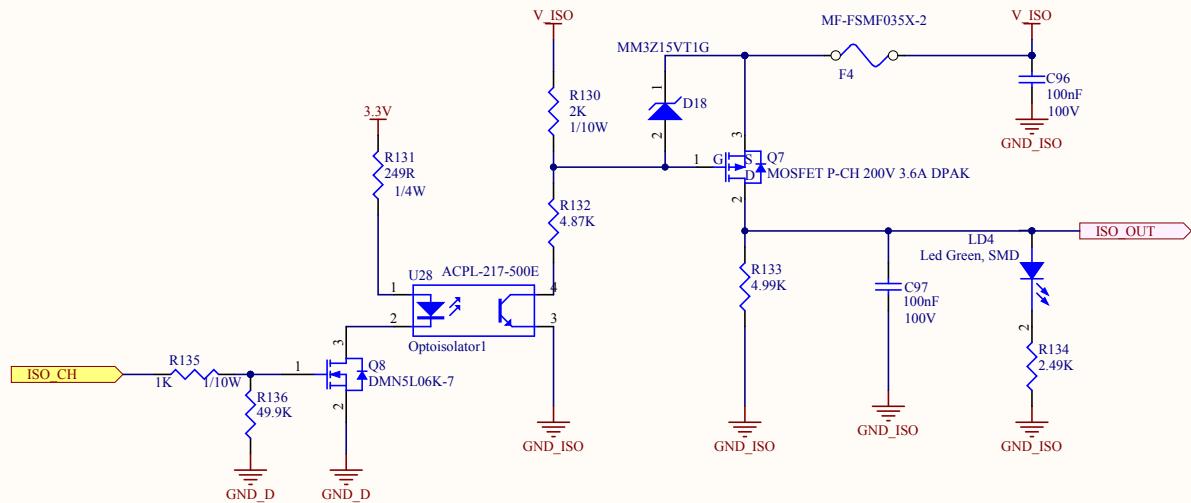
Title **Digital output channel**

Size: A4	Number: 14	Revision: *
Date: 10/25/2012	Time: 6:13:07 PM	Sheet 14 of 19
File: V:\PCB files\FEC\FEC board\DIGITAL_OUT.SchDoc	LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg



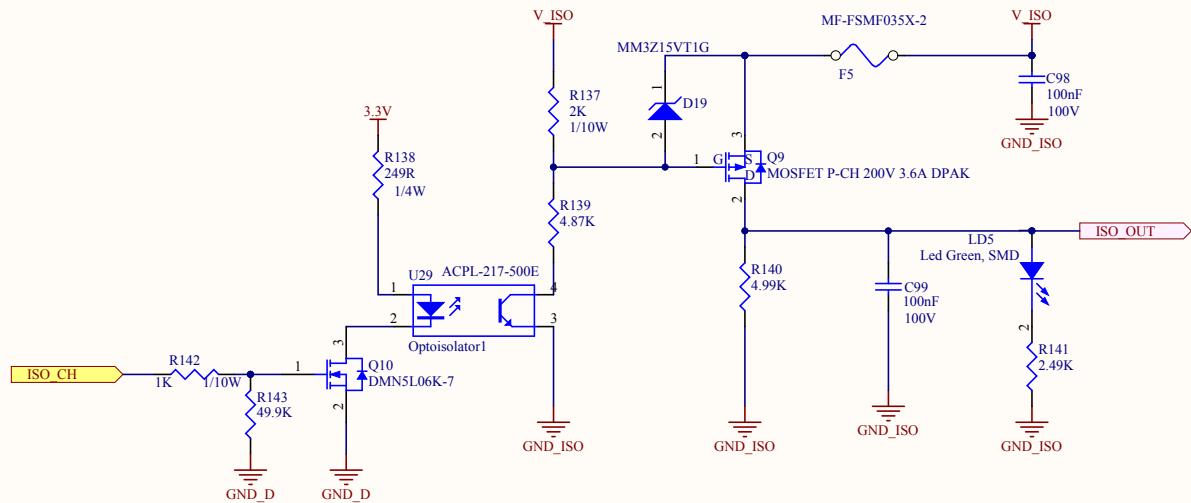
Title **Digital output channel**

Size: A4	Number: 14	Revision: *
Date: 10/25/2012	Time: 6:13:08 PM	Sheet 14 of 19
File: V:\PCB files\FEC\FEC board\DIGITAL_OUT.SchDoc		Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg



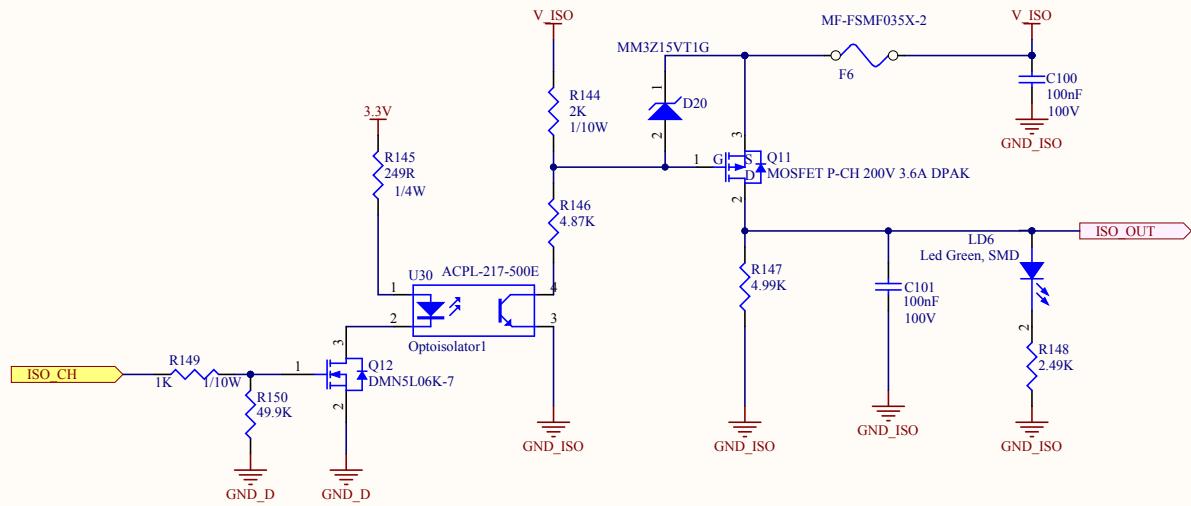
Title **Digital output channel**

Size: A4	Number: 14	Revision: *
Date: 10/25/2012	Time: 6:13:08 PM	Sheet 14 of 19
File: V:\PCB files\FEC\FEC board\DIGITAL_OUT.SchDoc		Landalabs 3 Pekeris st. Park Tamar Rehovot Israel



Title **Digital output channel**

Size: A4	Number: 14	Revision: *
Date: 10/25/2012	Time: 6:13:08 PM	Sheet 14 of 19
File: V:\PCB files\FEC\FEC board\DIGITAL_OUT.SchDoc	LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg



Title **Digital output channel**

Size: A4	Number: 14	Revision: *
Date: 10/25/2012	Time: 6:13:08 PM	Sheet 14 of 19
File: V:\PCB files\FEC\FEC board\DIGITAL_OUT.SchDoc	LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg

A

A

B

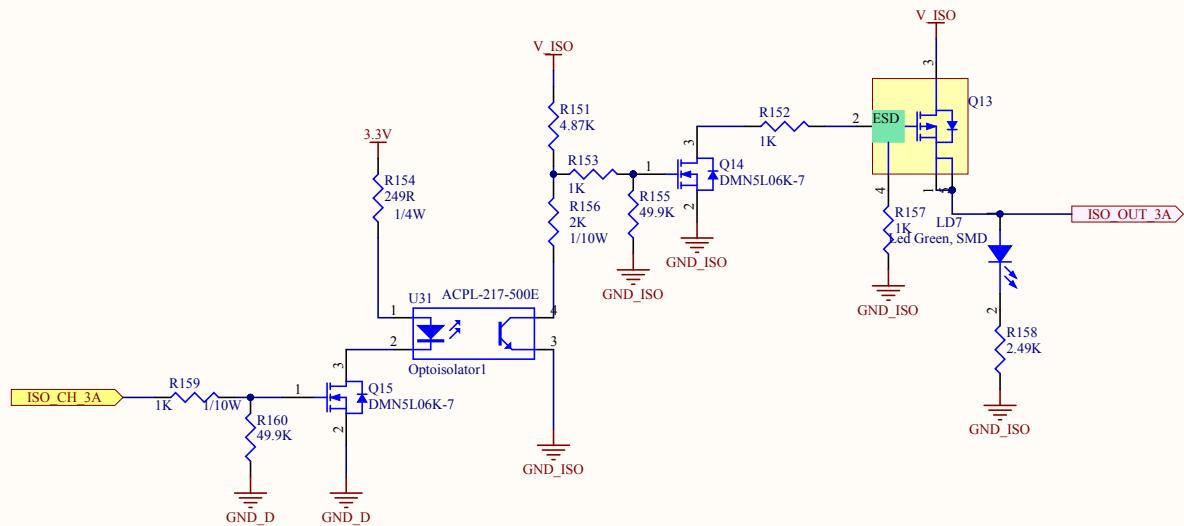
B

C

C

D

D



Title Digital output channel		
Size: A4	Number: 15	Revision: *
Date: 10/25/2012	Time: 6:13:08 PM	Sheet 15 of 19
File: V:\PCB files\FEC\FEC board\DIGITAL_OUT_3A.SchDoc	LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg

A

A

B

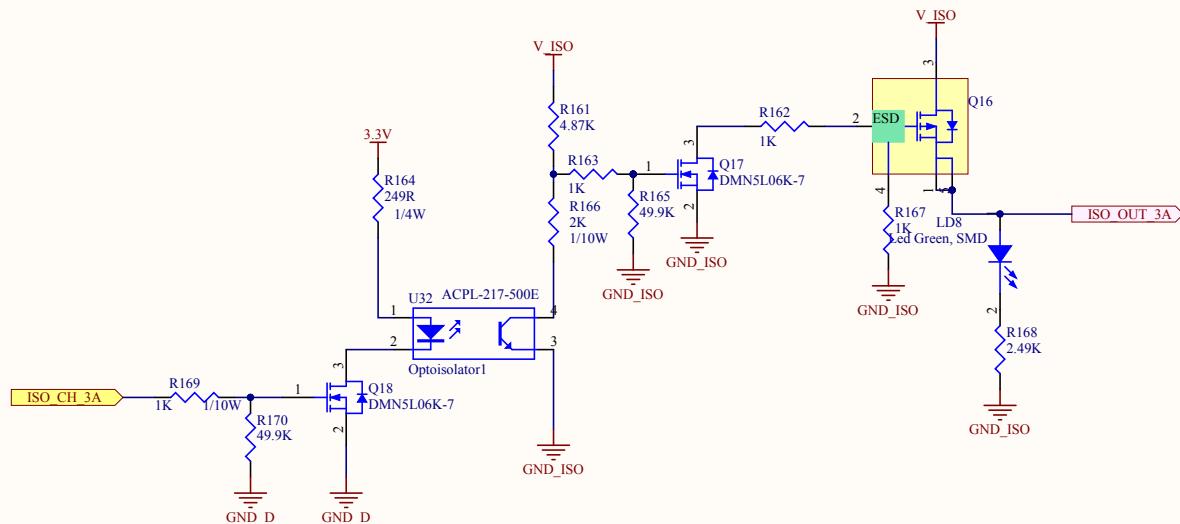
B

C

C

D

D



Title Digital output channel		
Size: A4	Number: 15	Revision: *
Date: 10/25/2012	Time: 6:13:08 PM	Sheet 15 of 19
File: V:\PCB files\FEC\FEC board\DIGITAL_OUT_3A.SchDoc	LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg

A

A

B

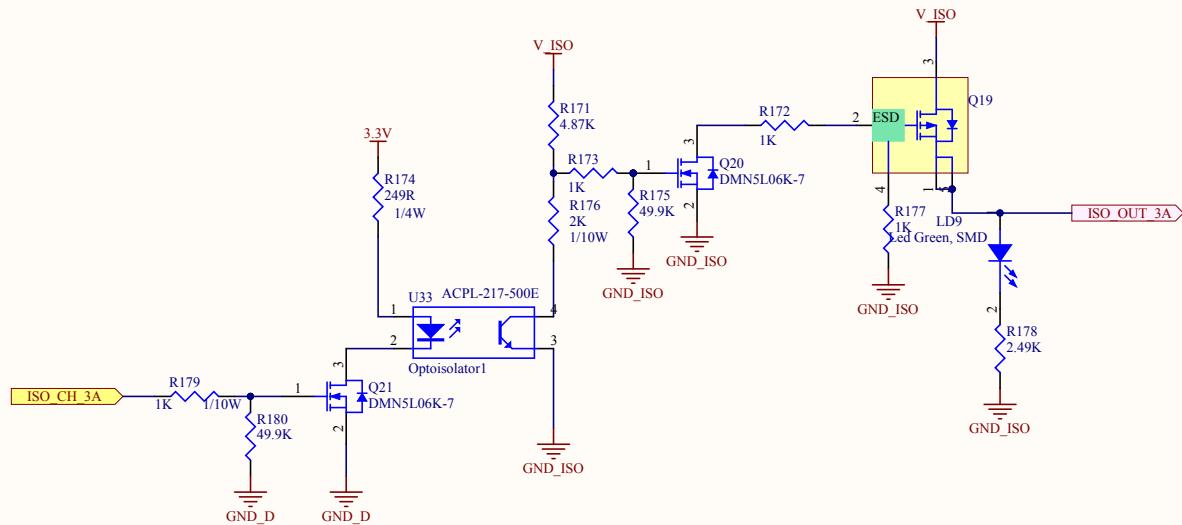
B

C

C

D

D



Title Digital output channel		
Size: A4	Number: 15	Revision: *
Date: 10/25/2012	Time: 6:13:09 PM	Sheet 15 of 19
File: V:\PCB files\FEC\FEC board\DIGITAL_OUT_3A.SchDoc	LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg

A

A

B

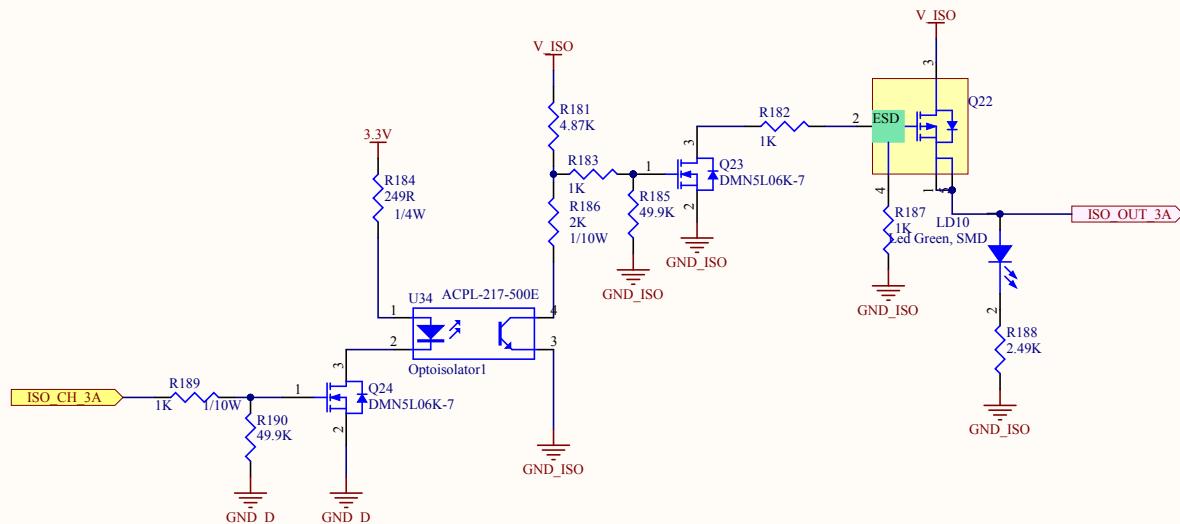
B

C

C

D

D



Title Digital output channel		
Size: A4	Number: 15	Revision: *
Date: 10/25/2012	Time: 6:13:09 PM	Sheet 15 of 19
File: V:\PCB files\FEC\FEC board\DIGITAL_OUT_3A.SchDoc	LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg

A

A

B

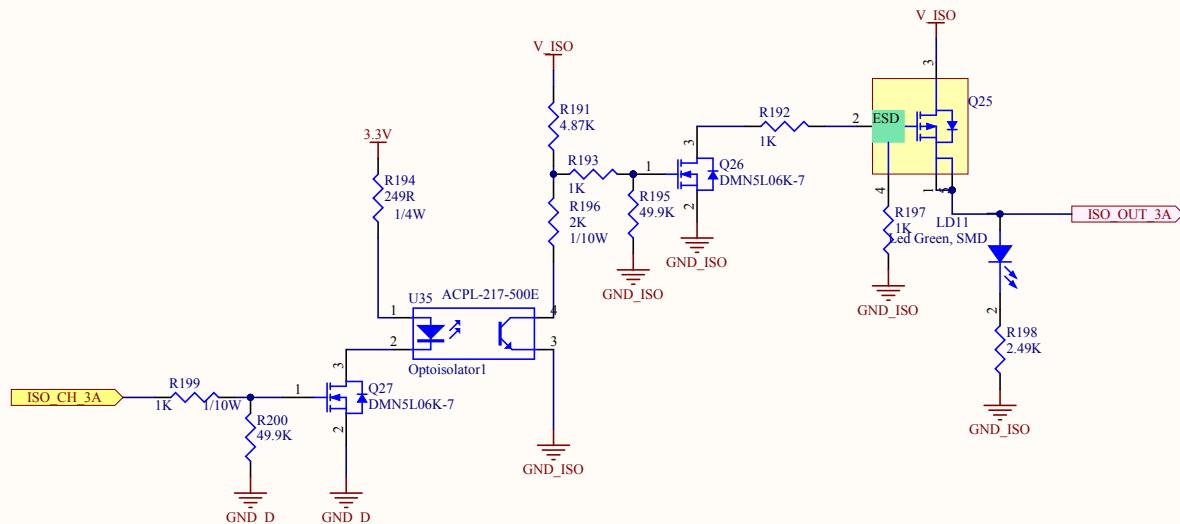
B

C

C

D

D



Title Digital output channel		
Size: A4	Number: 15	Revision: *
Date: 10/25/2012	Time: 6:13:09 PM	Sheet 15 of 19
File: V:\PCB files\FEC\FEC board\DIGITAL_OUT_3A.SchDoc	LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg

A

A

B

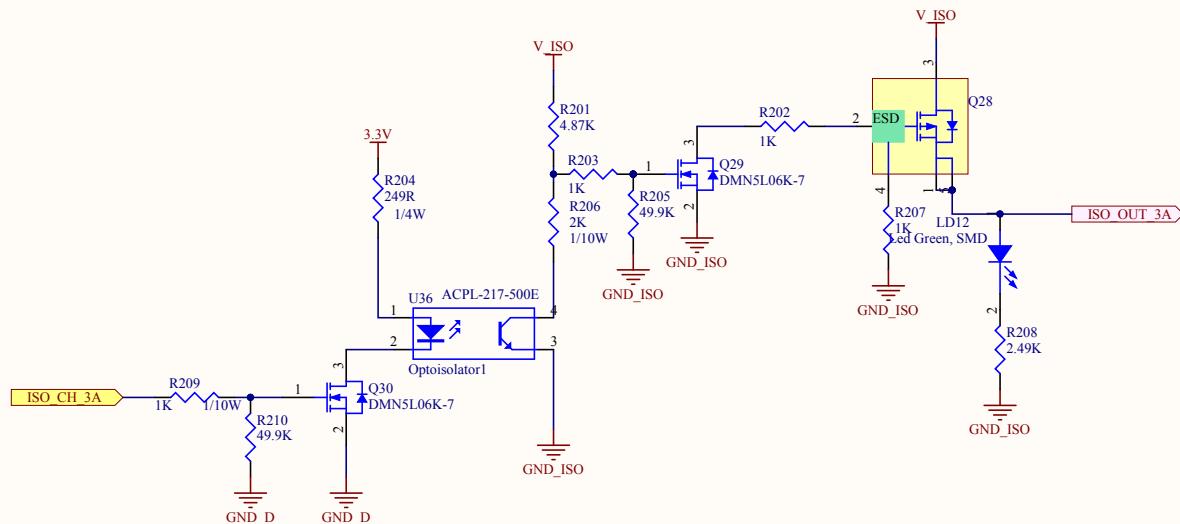
B

C

C

D

D



Title <i>Digital output channel</i>		
Size: A4	Number: 15	Revision: *
Date: 10/25/2012	Time: 6:13:09 PM	Sheet 15 of 19
File: V:\PCB files\FEC\FEC board\DIGITAL_OUT_3A.SchDoc		

A

A

B

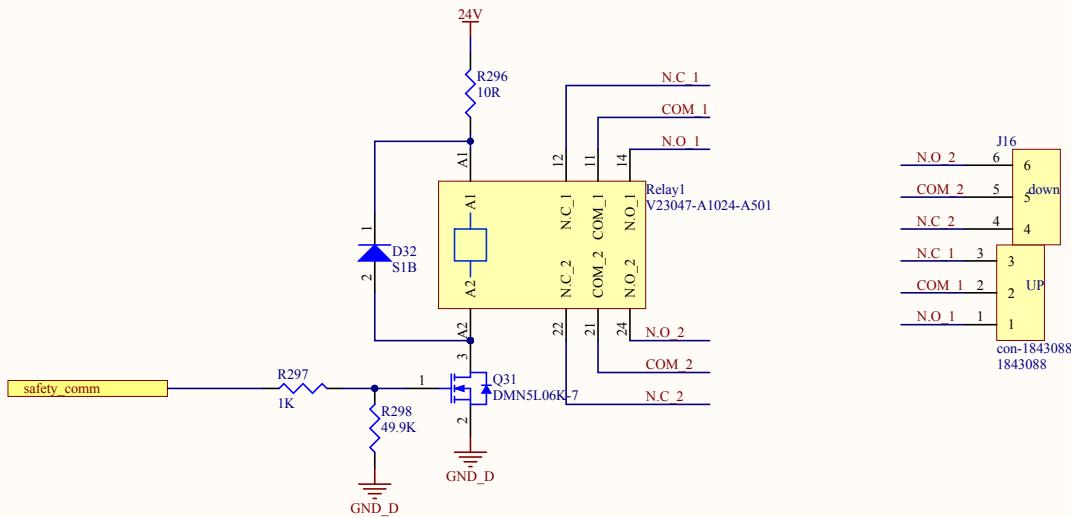
B

C

C

D

D



Title <i>Safety relay channel</i>			LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel
Size: A4	Number: 16	Revision: *	Cannot open file C:\Users\Public\Documents\Altium\AD 10\Templates\Logo_BB.jpg
Date: 10/25/2012	Time: 6:13:09 PM	Sheet 16 of 19	
File: V:\PCB files\FEC\FEC_board\safety.out.SchDoc			

A

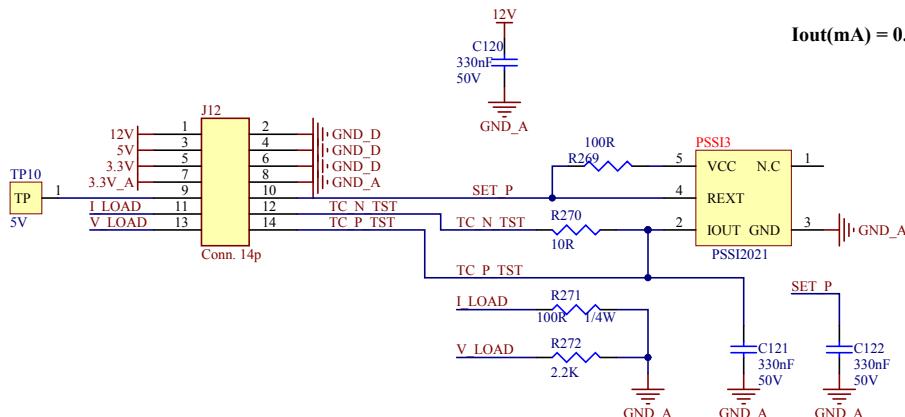
A

Support testing of:

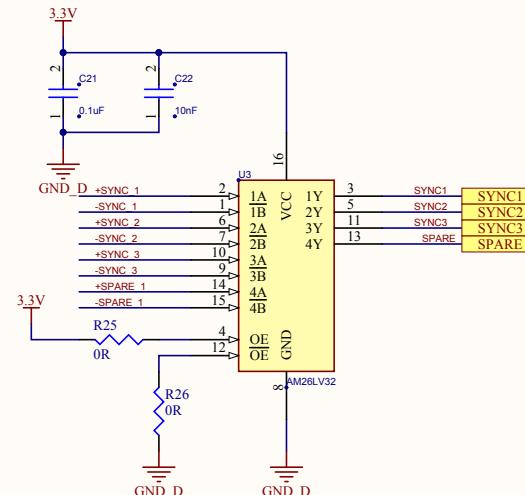
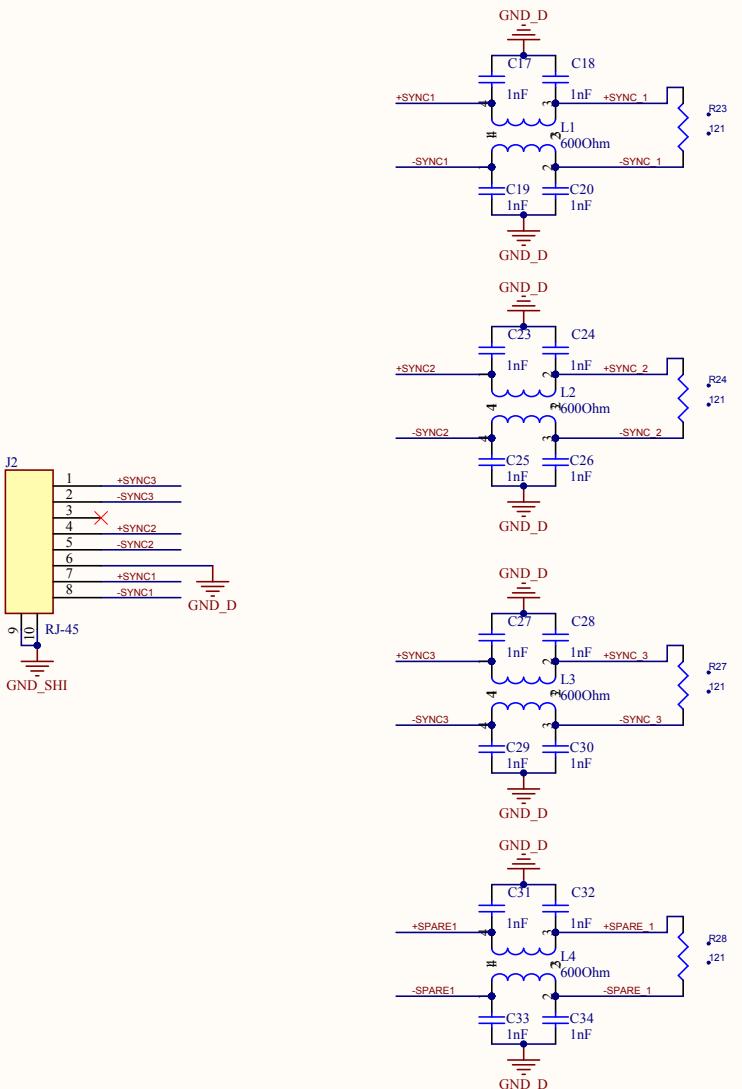
TC channels
0-20mA channels
0-10V
Iso Digital inputs

Test and debug

$$I_{out}(\text{mA}) = 0.617/\text{Rext}(\text{Ohm}) + 0.015 \text{ mA}$$

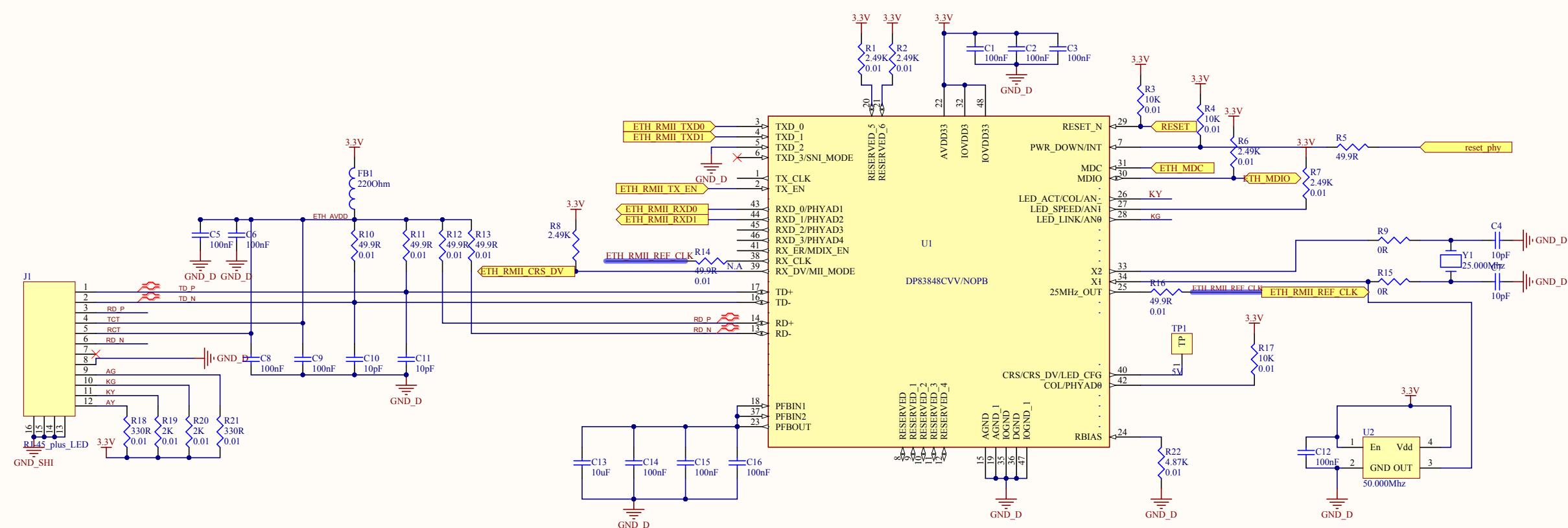


Title		
Size	Number	Revision
A4		
Date: 10/25/2012	Sheet of	
File: V:\PCB files\...\MISCELLANEOUS.SchDoc		Drawn By:



Title: **422 zero cross input**

Size: A4	Number: 18	Revision: *
Date: 10/25/2012	Time: 6:13:09 PM	Sheet 18 of 19
File: V:\PCB files\FEC\FEC_board\422_zero_cross.SchDoc		Landalabs 3 Pekoris st. Park Tamar Rehovot Israel



Title: * Ethernet		
Size: A2	Number: *	Revision: *
Date: 10/25/2012	Time: 6:13:09 PM	Sheet: 19 of 19
File: V:\PCB files\FECFFEC_board\4_Ethernet.SchDoc		
LandaLabs 3 Pekeris st. Park Tamar Rehovot Israel	Cannot open file C:\Users\Public\Documents\AltiumAD 10\Templates\LandaLogo.jpg	