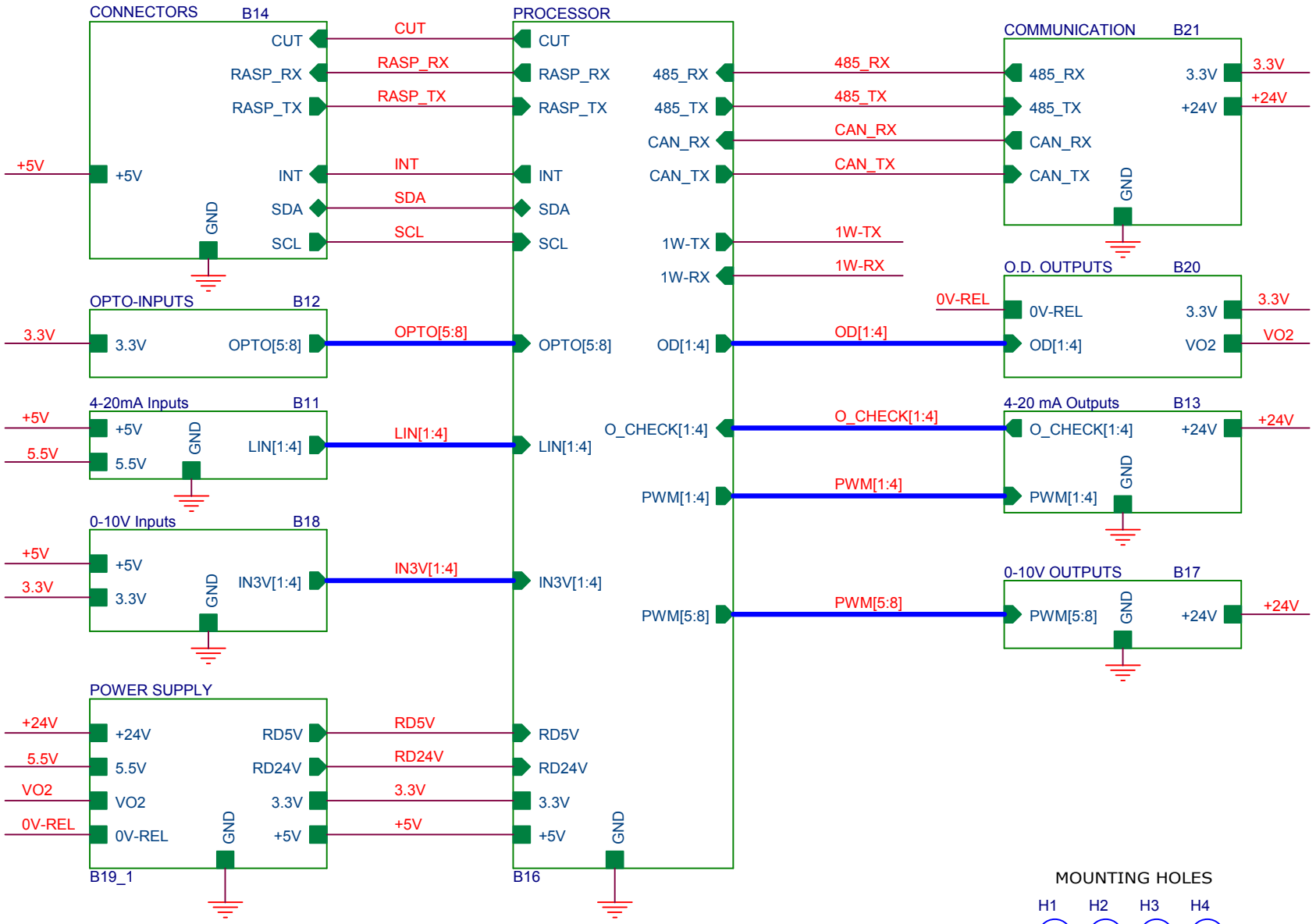
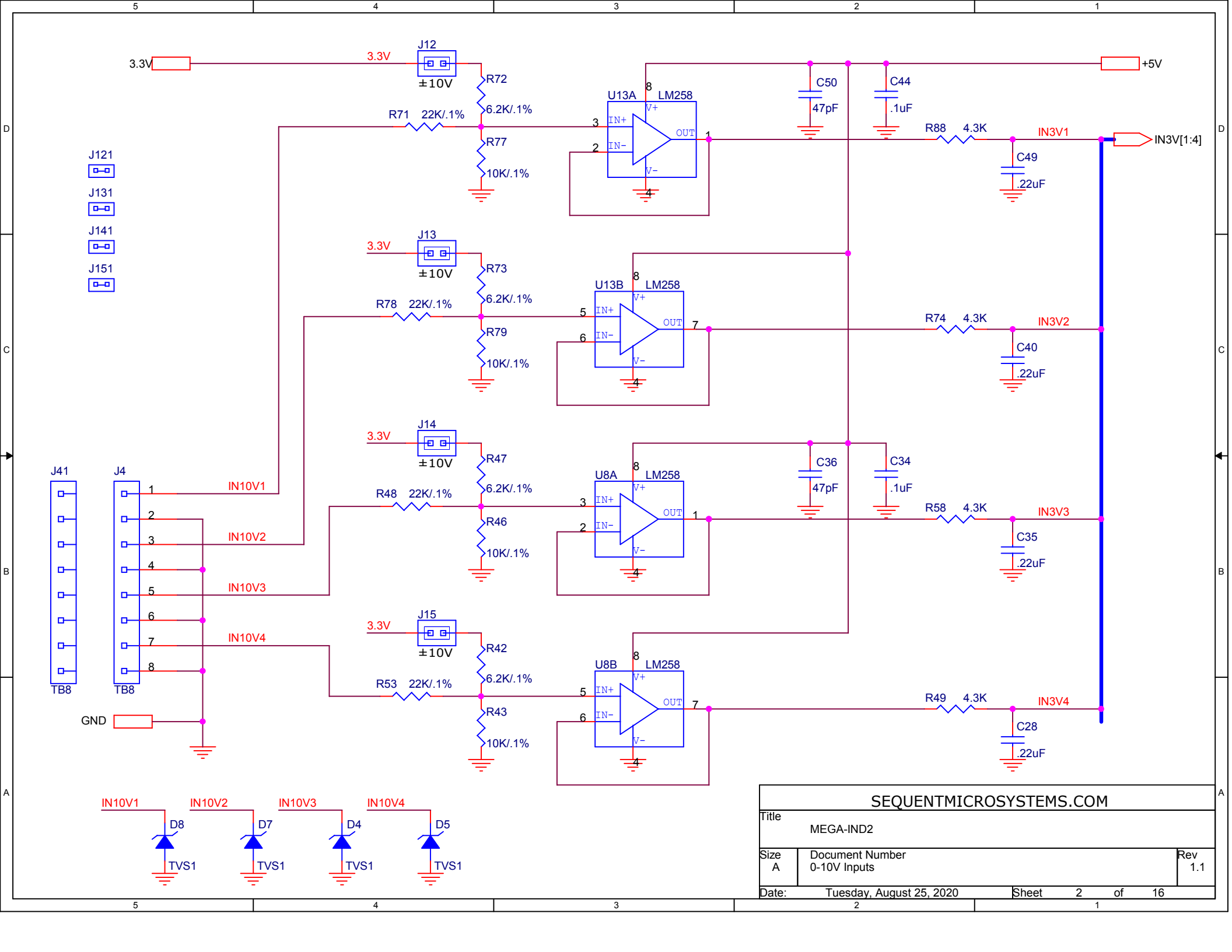
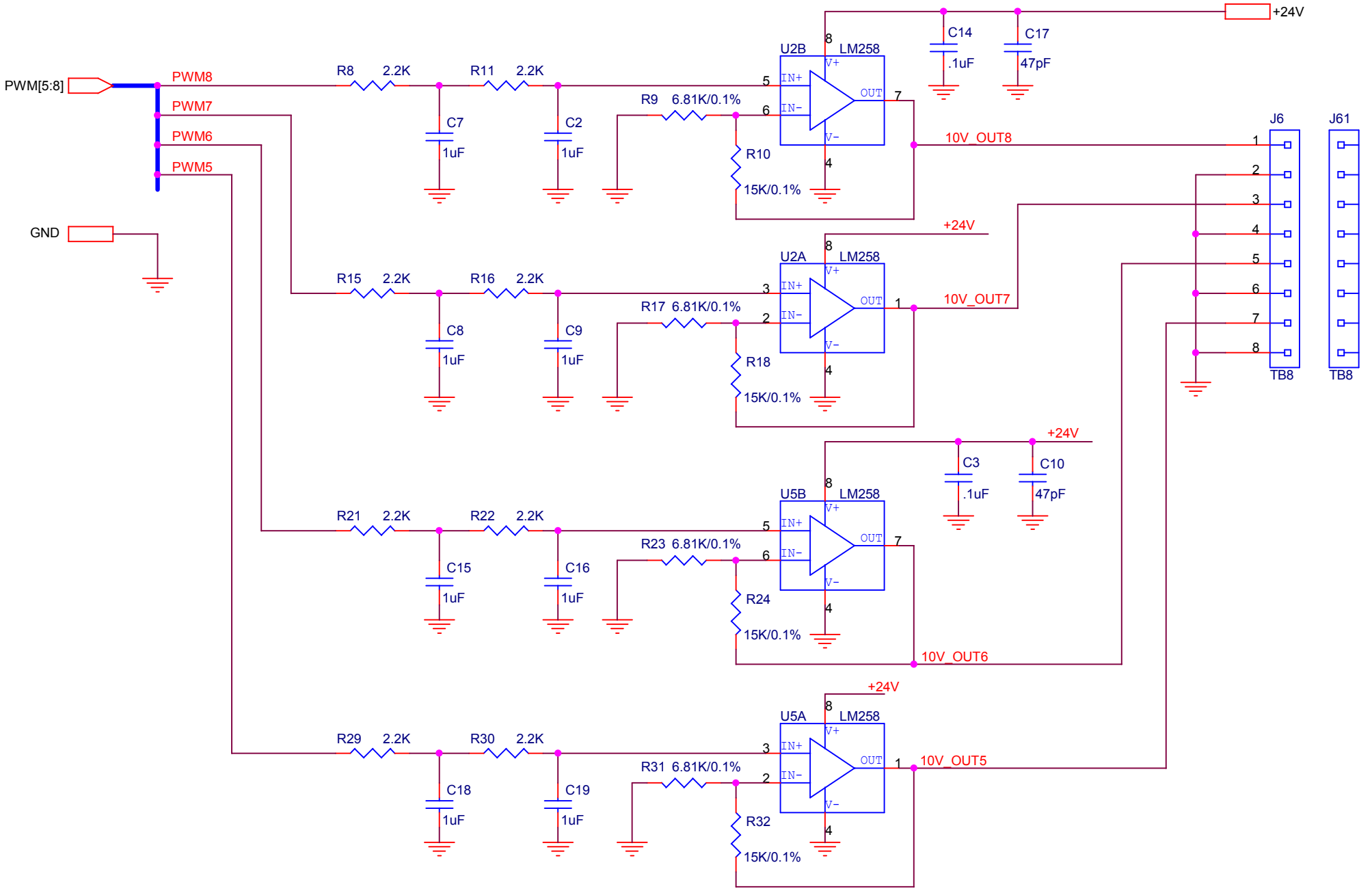


SEQUENTMICROSYSTEMS.COM

Title: MEGA-IND2		
Size: A	Document Number: Block Diagram	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 1 of 16	

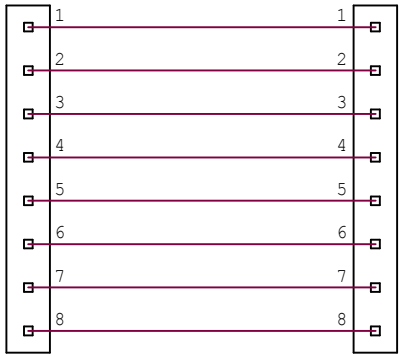

3.3V
J12
±10V
R72
6.2K/.1%
R71 22K/.1%
R77
10K/.1%
U13A LM258
C50
47pF
C44
.1uF
+5V
R88 4.3K
IN3V1
IN3V[1:4]
C49
.22uF
J121
J131
J141
J151
J13
R73
R78 22K/.1%
R79
U13B LM258
R74 4.3K
IN3V2
C40
J14
R47
R48 22K/.1%
R46
U8A LM258
C36
C34
R58 4.3K
IN3V3
C35
J41
J4
IN10V1
IN10V2
IN10V3
IN10V4
TB8
GND
J15
R42
R53 22K/.1%
R43
U8B LM258
R49 4.3K
IN3V4
C28
D8
D7
D4
D5
TVS1
SEQUENTMICROSYSTEMS.COM
Title
MEGA-IND2
Size A
Document Number
0-10V Inputs
Rev 1.1
Date: Tuesday, August 25, 2020
Sheet 2 of 16



SEQUENTMICROSYSTEMS.COM

Title: MEGA-IND2		
Size: A	Document Number: 0-10V Outputs	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 3 of 16	

TEST CABLE



PLUG INTO J4 TO TEST

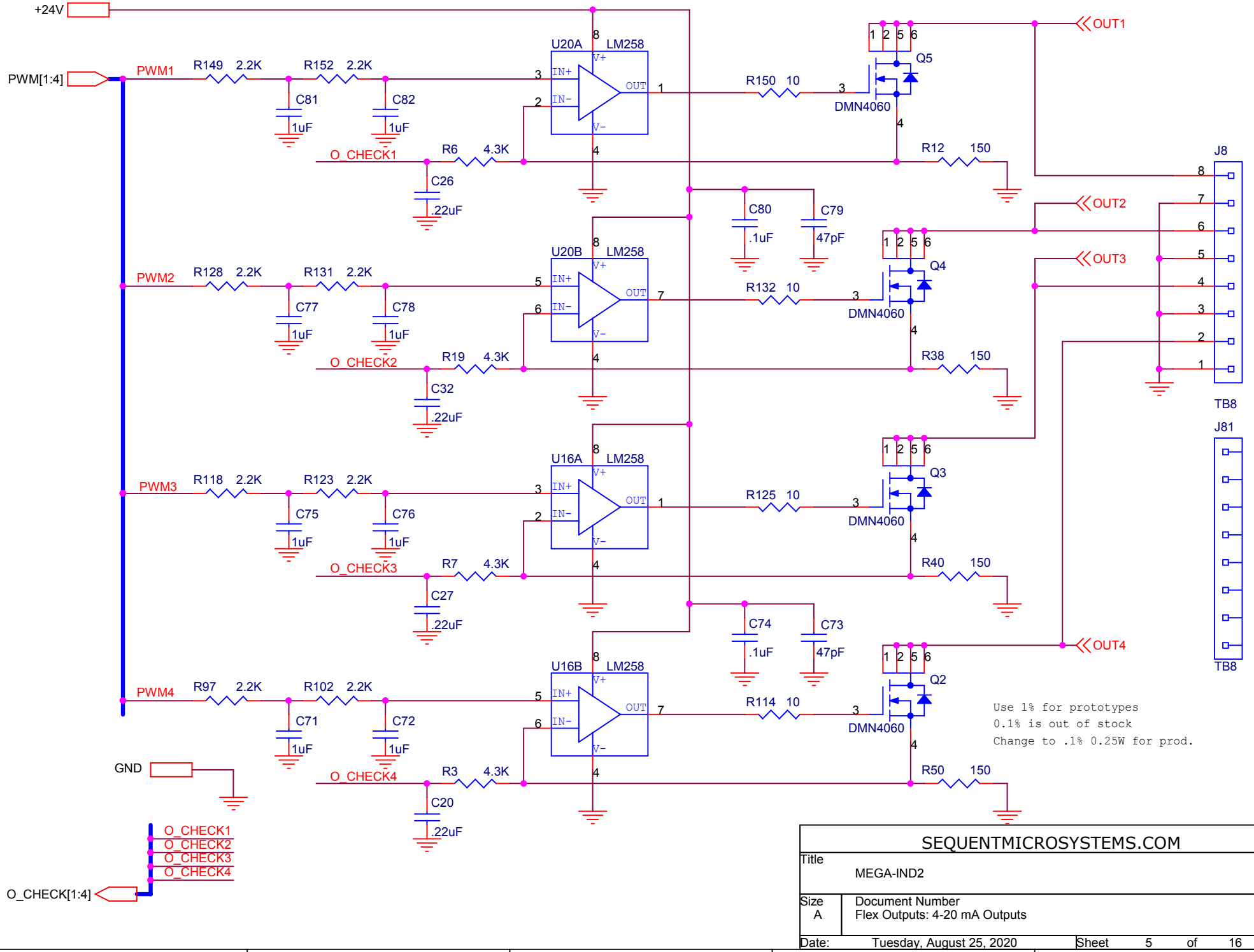
PLUG INTO J6 TO TEST

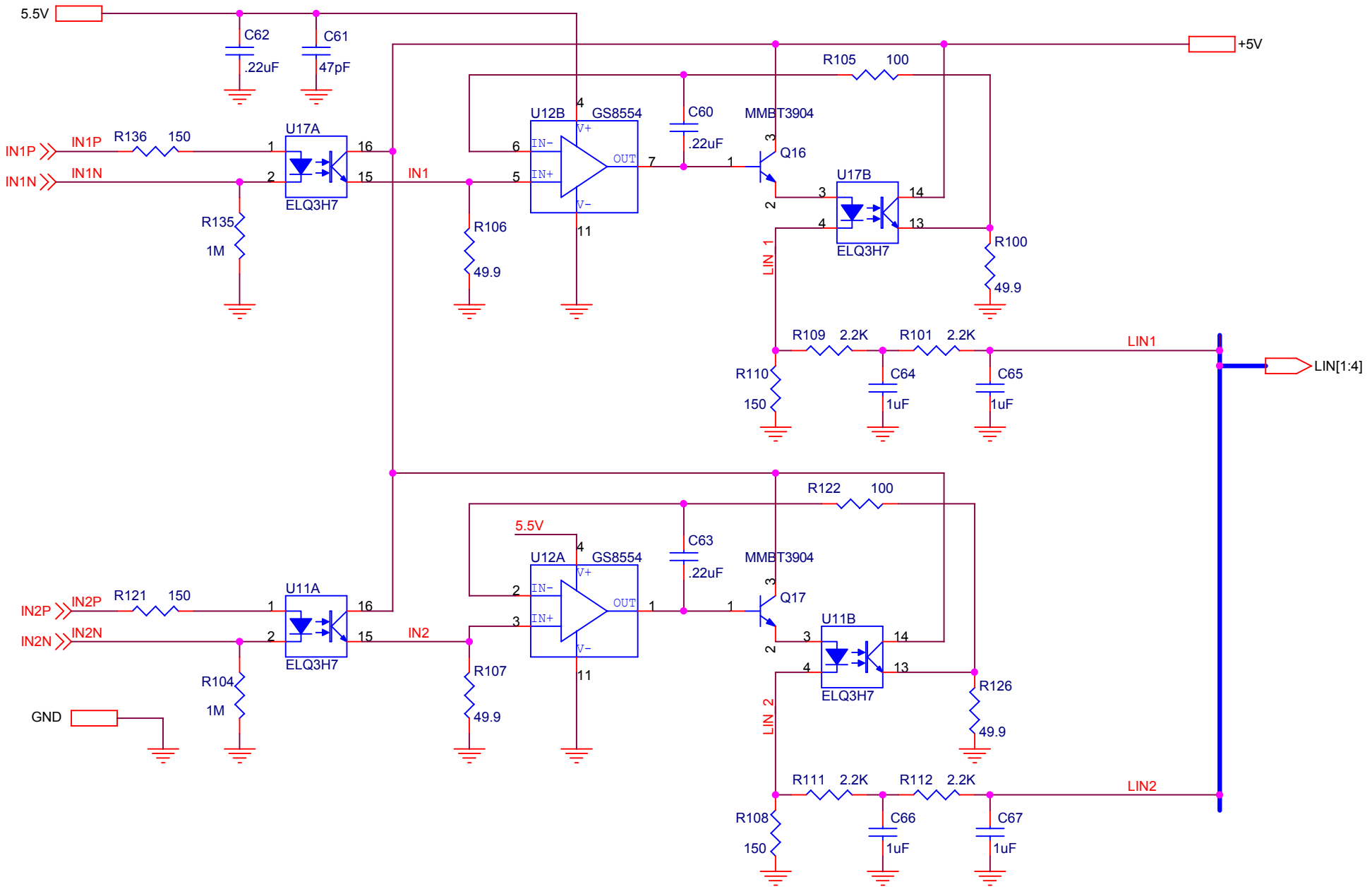
SEQUENTMICROSYSTEMS.COM

Title: MEGA-IND2

Size	Document Number	Rev
A	0-10V Test Cable	1.1

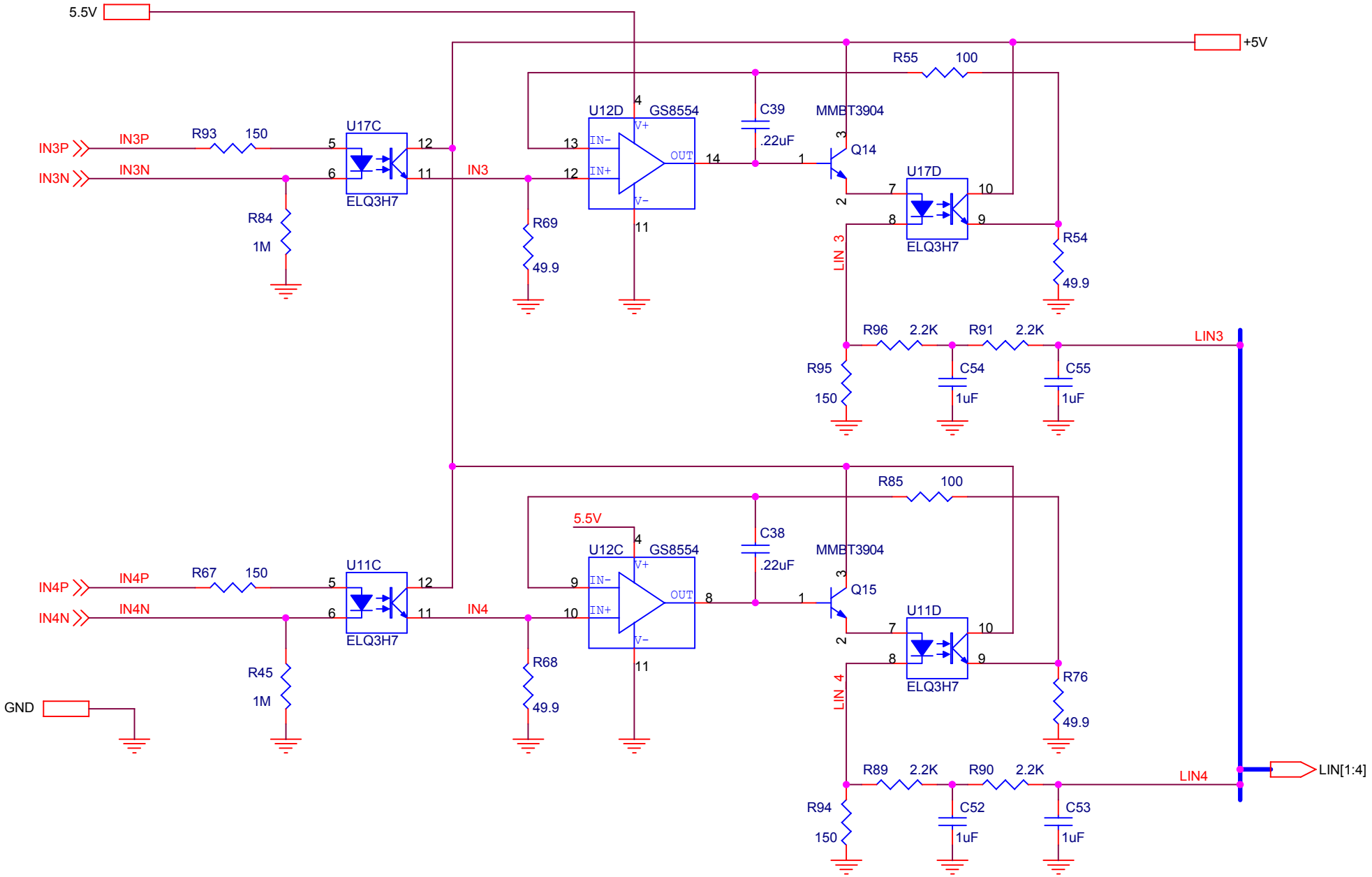
Date: Tuesday, August 25, 2020 Sheet 4 of 16


+24V
PWM[1:4]
PWM1
PWM2
PWM3
PWM4
R149 2.2K
R152 2.2K
R128 2.2K
R131 2.2K
R118 2.2K
R123 2.2K
R97 2.2K
R102 2.2K
C81 1uF
C82 1uF
C77 1uF
C78 1uF
C75 1uF
C76 1uF
C71 1uF
C72 1uF
U20A LM258
U20B LM258
U16A LM258
U16B LM258
V+
V-
IN+
IN-
OUT
O_CHECK1
O_CHECK2
O_CHECK3
O_CHECK4
R6 4.3K
R19 4.3K
R7 4.3K
R3 4.3K
C26 .22uF
C32 .22uF
C27 .22uF
C20 .22uF
R150 10
R132 10
R125 10
R114 10
Q5
Q4
Q3
Q2
DMN4060
C80 .1uF
C79 47pF
C74 .1uF
C73 47pF
R12 150
R38 150
R40 150
R50 150
OUT1
OUT2
OUT3
OUT4
J8
TB8
J81
TB8
GND
O_CHECK[1:4]
Use 1% for prototypes
0.1% is out of stock
Change to .1% 0.25W for prod.
SEQUENTMICROSYSTEMS.COM
Title
MEGA-IND2
Size
A
Document Number
Flex Outputs: 4-20 mA Outputs
Rev
1.1
Date:
Tuesday, August 25, 2020
Sheet
5
of
16



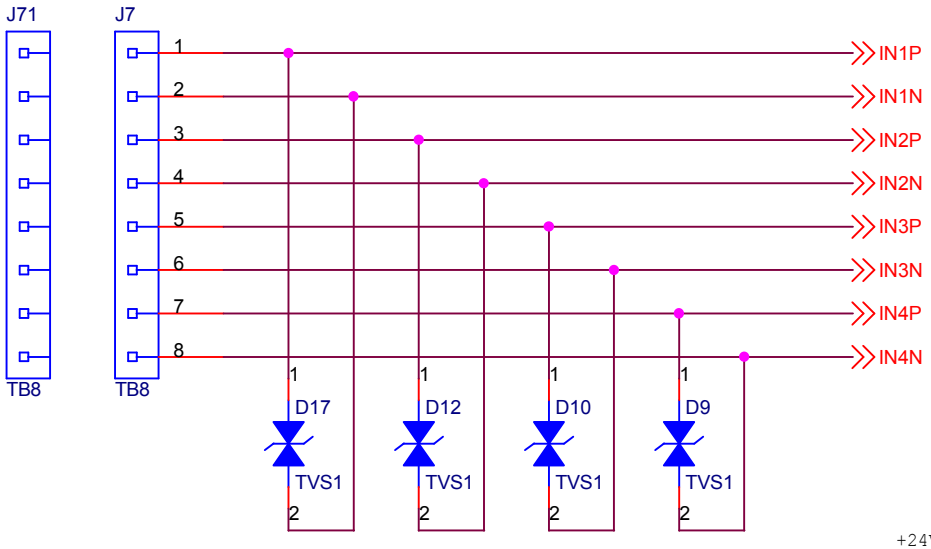
SEQUENTMICROSYSTEMS.COM

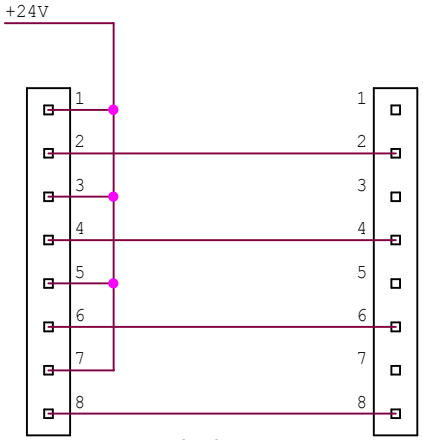
Title: MEGA-IND2		
Size: A	Document Number: 4-20mA Inputs 1-2	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 6 of 16	



SEQUENTMICROSYSTEMS.COM

Title: MEGA-IND2		
Size: A	Document Number: 4-20mA Inputs 3-4	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 7 of 16	





PLUG INTO J7 TO TEST

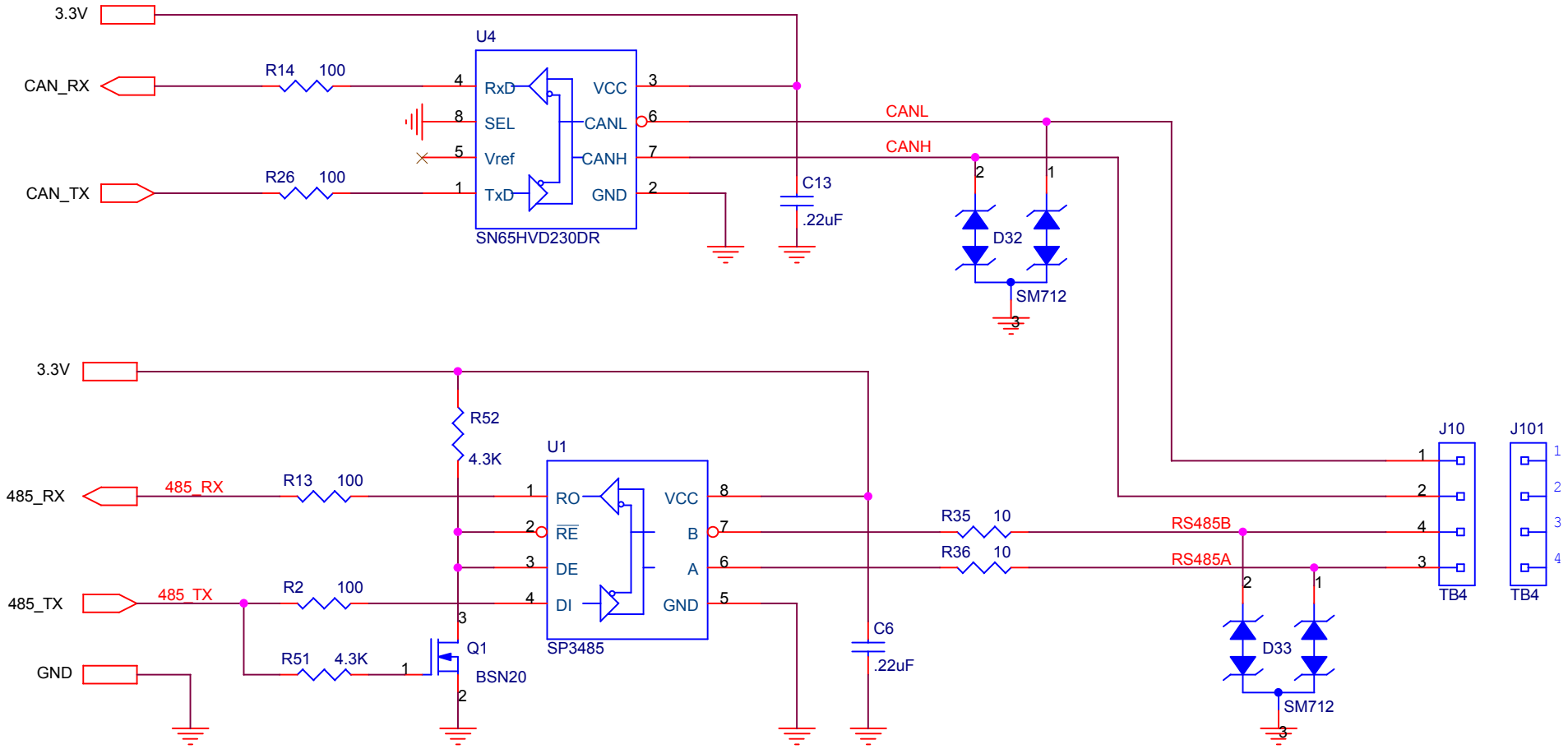
PLUG INTO J8 TO TEST

ORDER 4 each
WJ15EDGK-3.5-8P

TEST CABLE

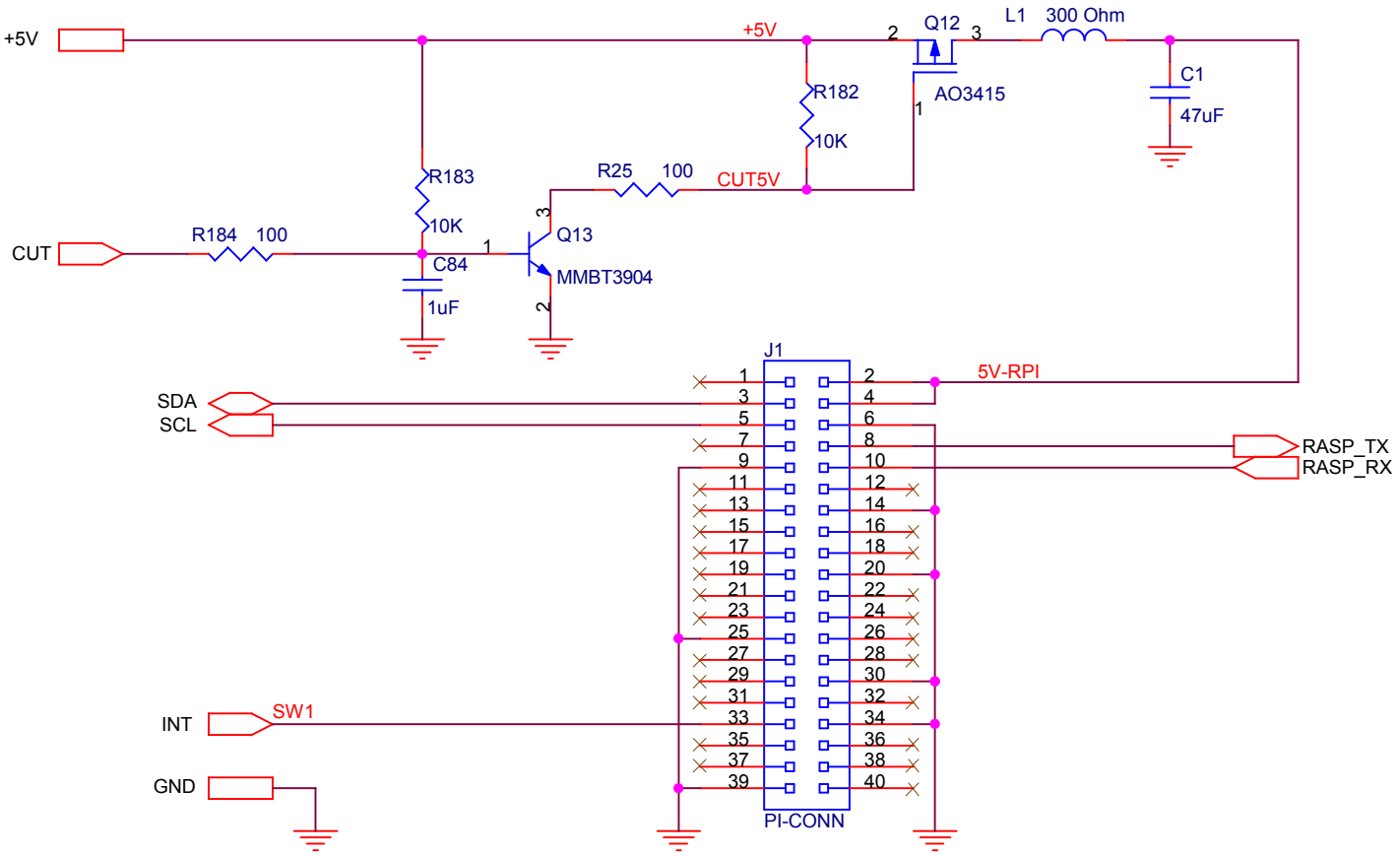
SEQUENTMICROSYSTEMS.COM

Title: MEGA-IND2		
Size: A	Document Number: 4-20mA Test Cable	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 8 of 16	



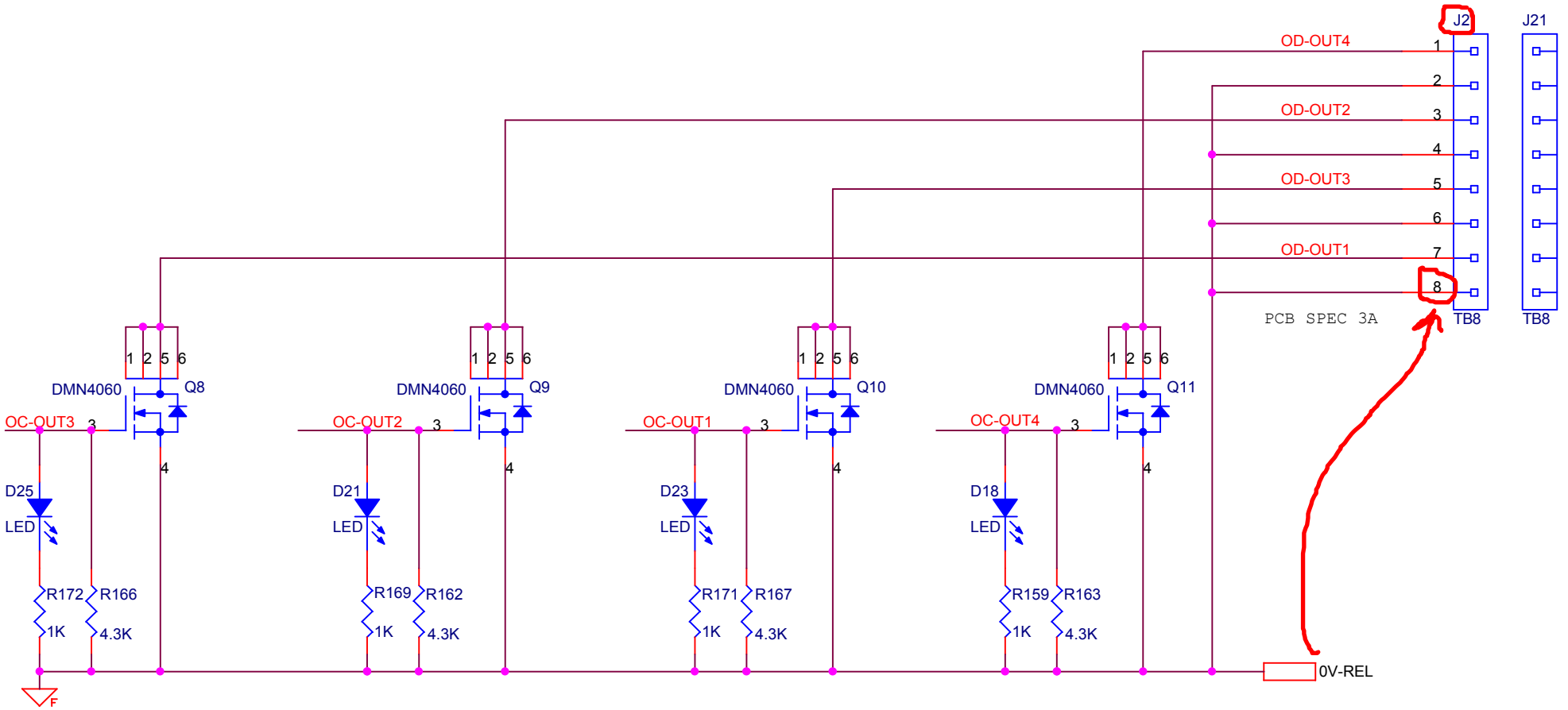
SEQUENTMICROSYSTEMS.COM

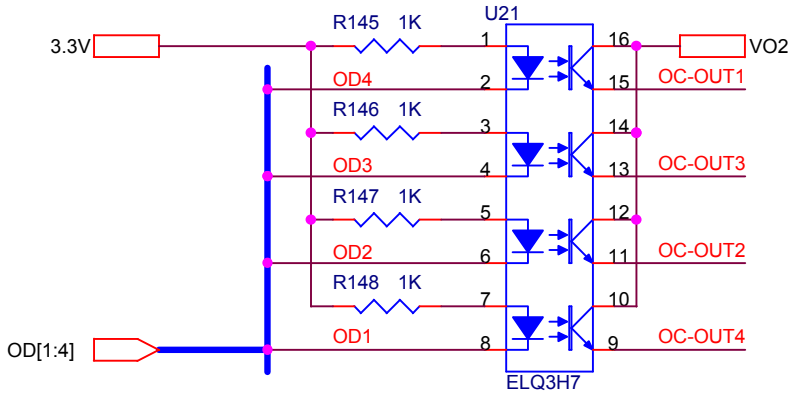
Title: MEGA-IND2		
Size: A	Document Number: Communication	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 9 of 16	



SEQUENTMICROSYSTEMS.COM

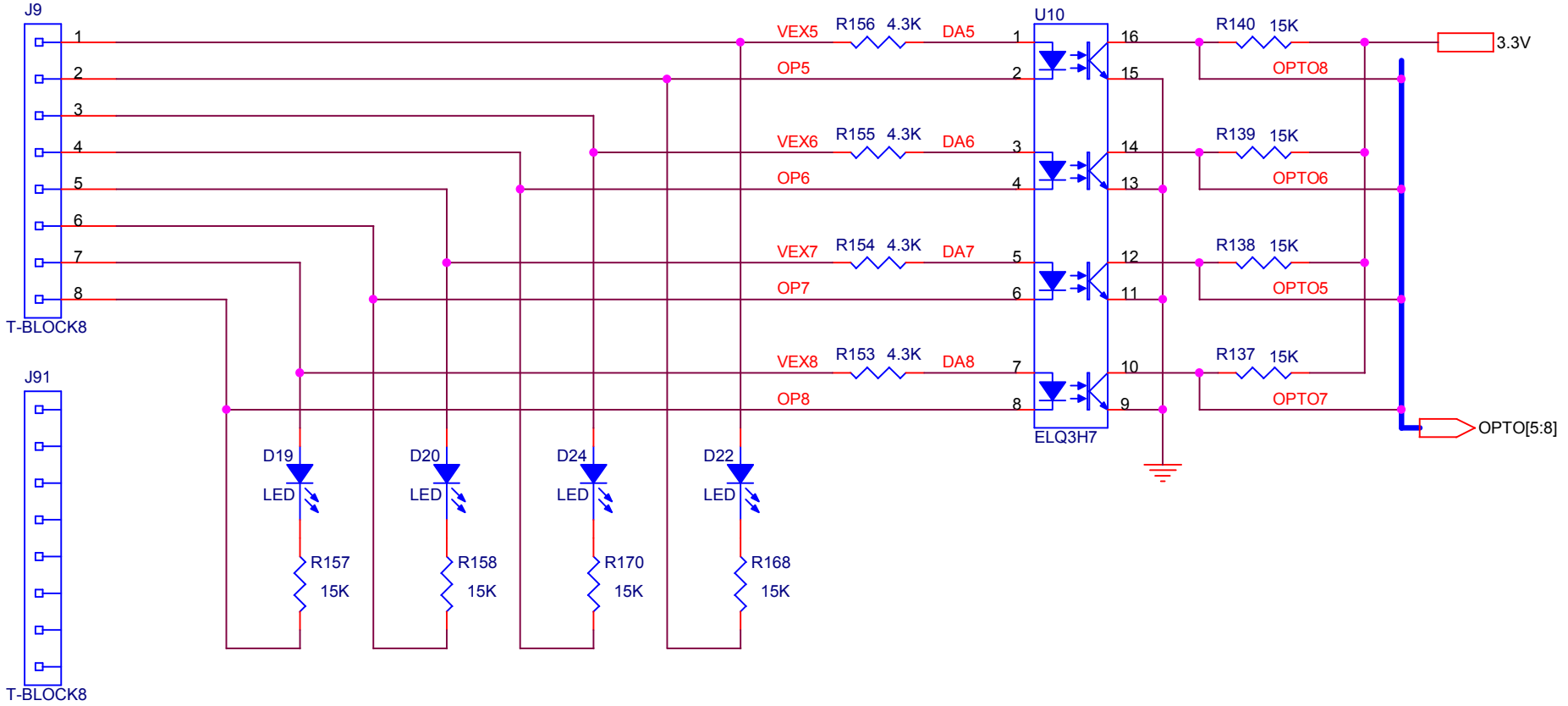
Title: MEGA-IND2		
Size: A	Document Number: Connectors	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 10 of 16	





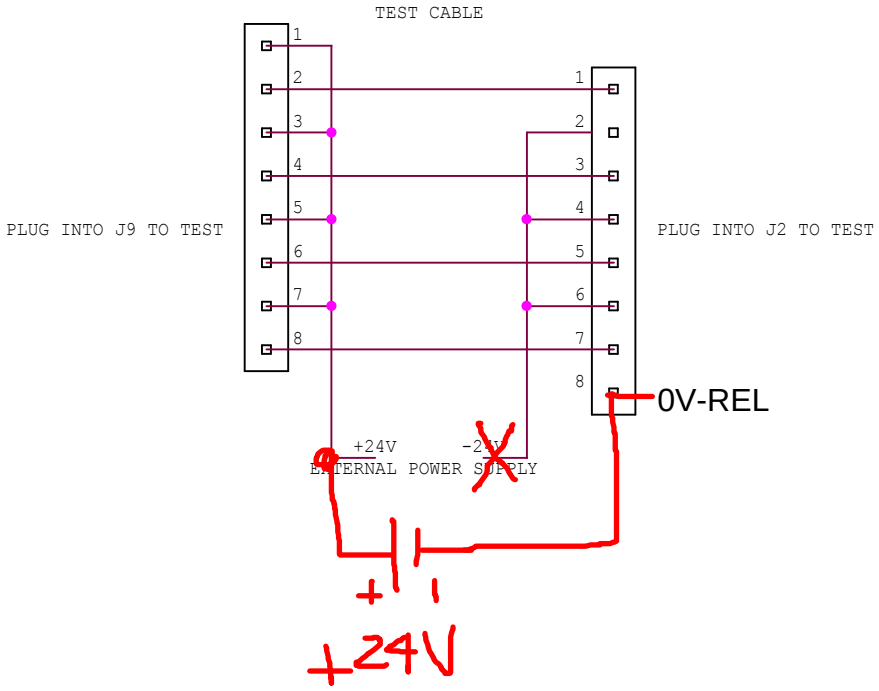
SEQUENTMICROSYSTEMS.COM

Title: MEGA-IND2		
Size: A	Document Number: OPEN DRAIN OUTPUTS	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 11 of 16	

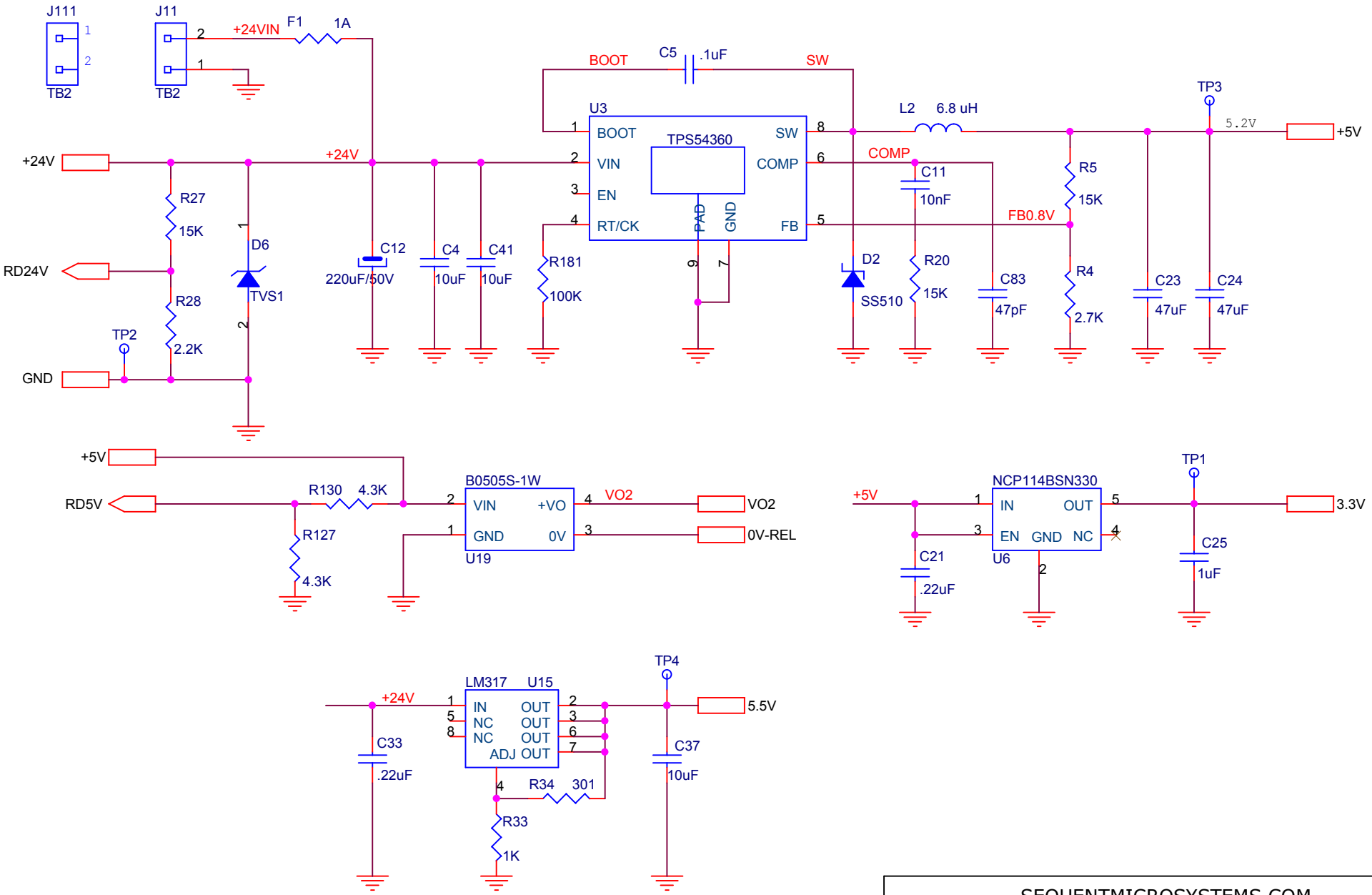


SEQUENTMICROSYSTEMS.COM

Title: MEGA-IND2		
Size: A	Document Number: Opto-inputs	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 12 of 16	

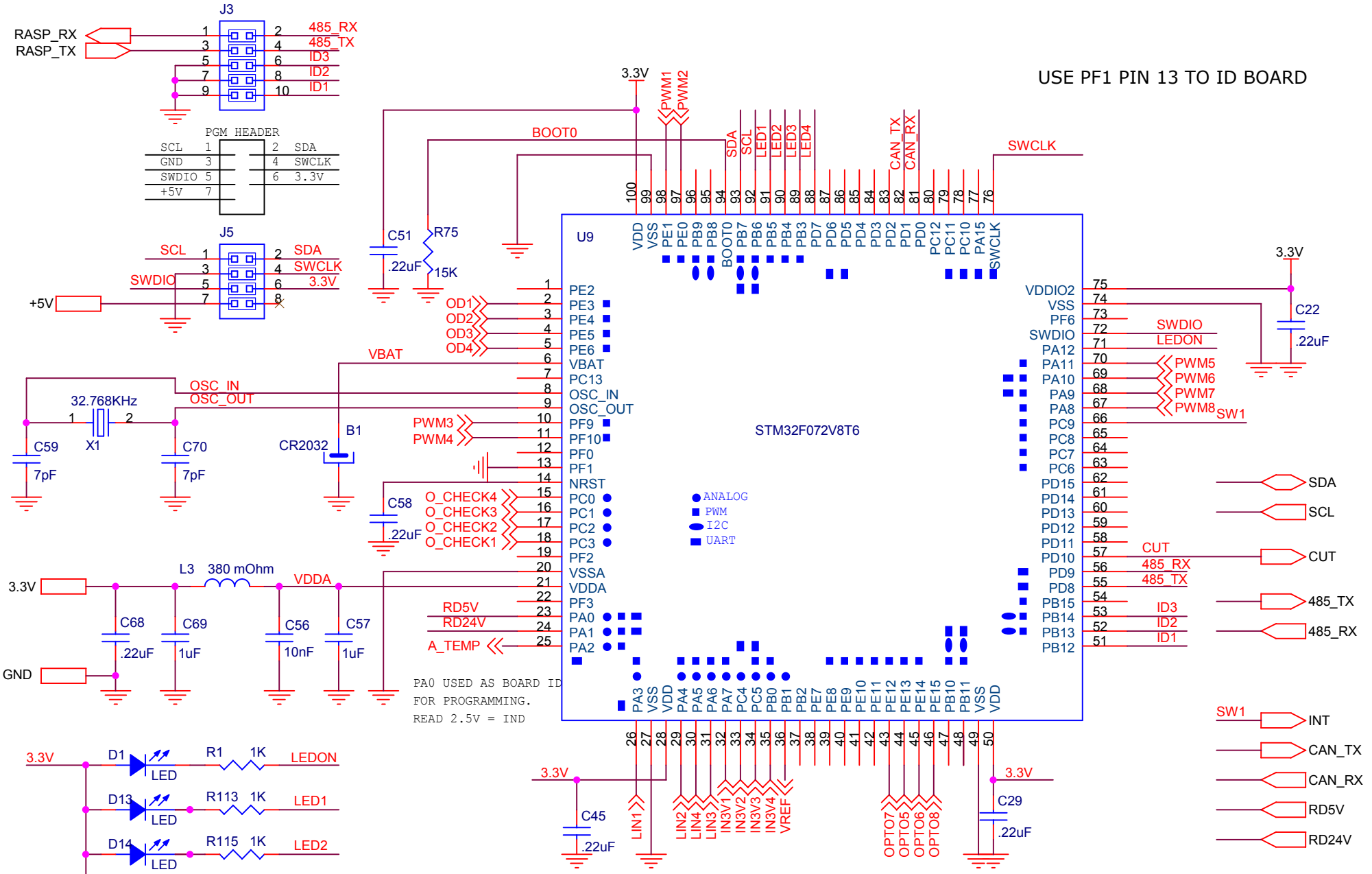


SEQUENTMICROSYSTEMS.COM		
Title: MEGA-IND2		
Size: A	Document Number: IO Test Cable	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 13 of 16	



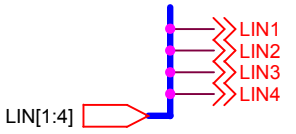
SEQUENTMICROSYSTEMS.COM

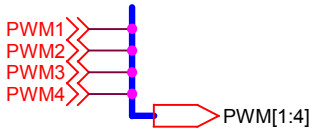
Title: MEGA-IND2		
Size: A	Document Number: Power Supply	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 15 of 16	

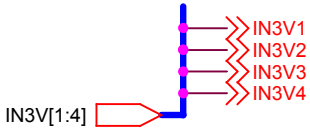


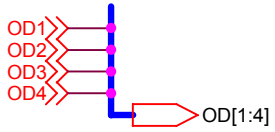
SEQUENTMICROSYSTEMS.COM

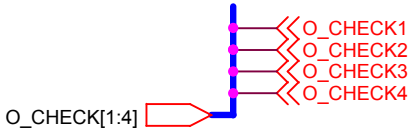
Title: MEGA-IND2		
Size: A	Document Number: Processor 1	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 15 of 16	

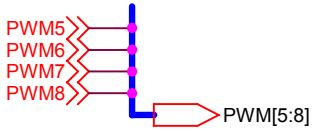


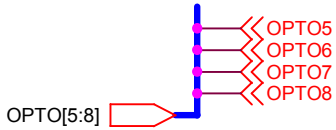


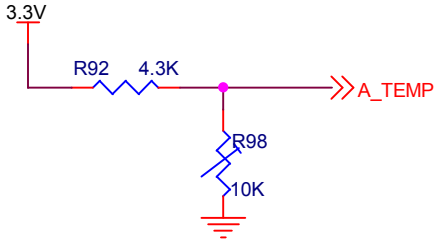


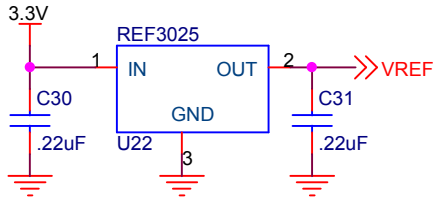












SEQUENTMICROSYSTEMS.COM		
Title: MEGA-IND2		
Size: A	Document Number: Processor 2	Rev: 1.1
Date: Tuesday, August 25, 2020	Sheet 16 of 16	