

Relay Selection:

1 0 Channel		
R	R	0
R	S	1
S	S	2
S	R	3

Relays (single coil, bistable):

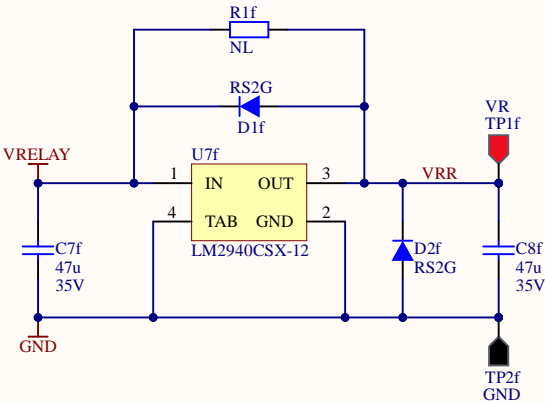
Volts	Parts	
5V	5-1462037-9	TE Connectivity
	9-1462038-7	TE Connectivity
12V	6-1462037-7	TE Connectivity
	AGQ21TA12X	Panasonic
	AGQ21TS12X	Panasonic

Relay Voltage:

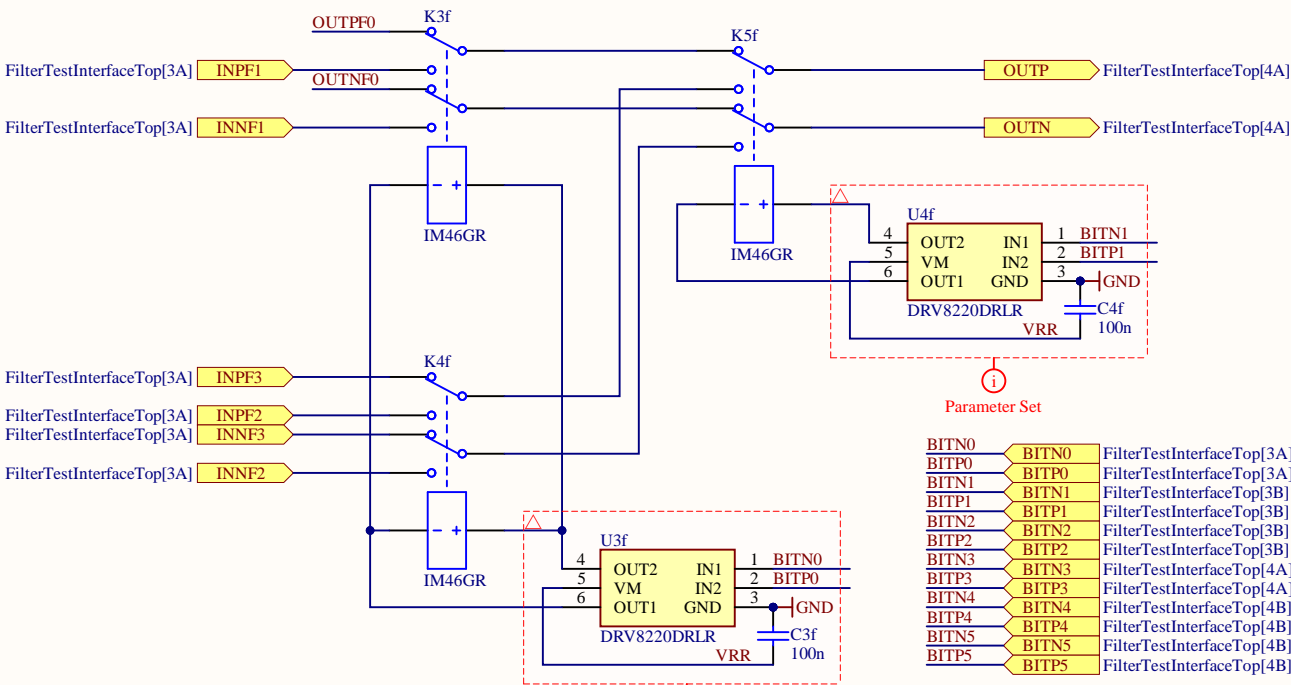
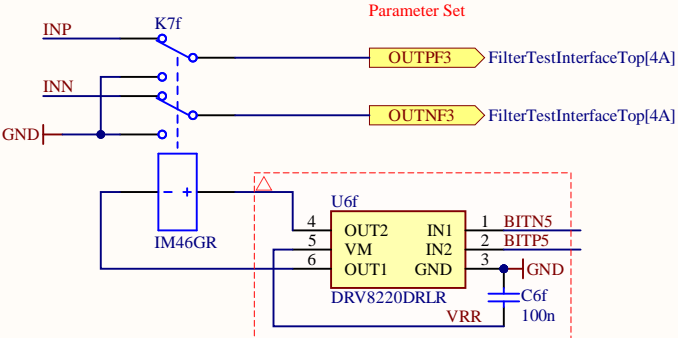
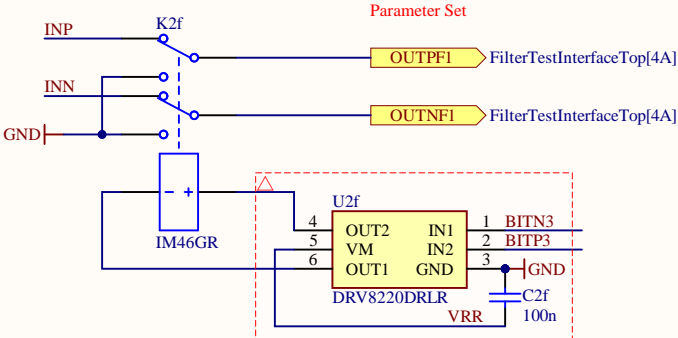
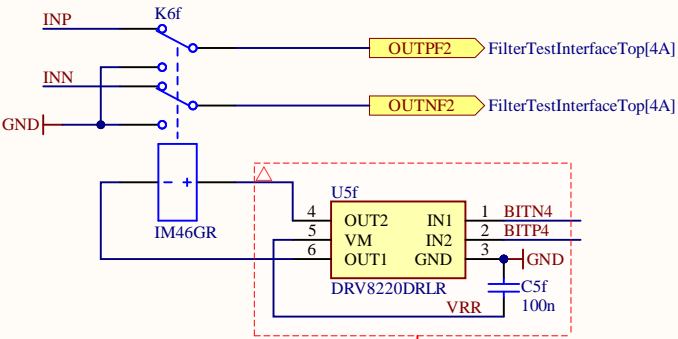
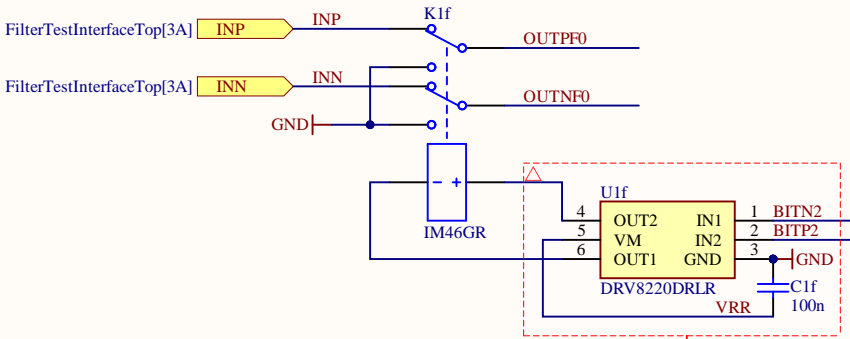
Volts	Parts	
5-11V	DRV8210DRLR	Texas Instruments
	DRV8212DRLR	Texas Instruments
5-18V	DRV8220DRLR	Texas Instruments

Regulator:

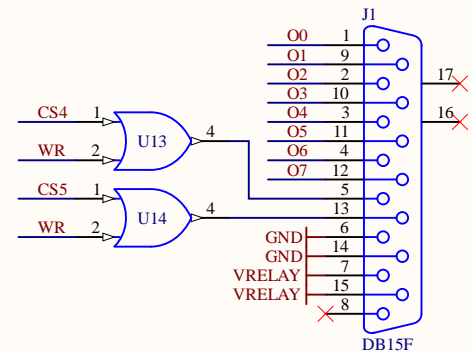
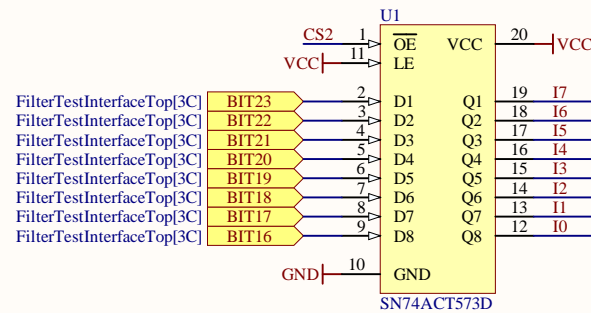
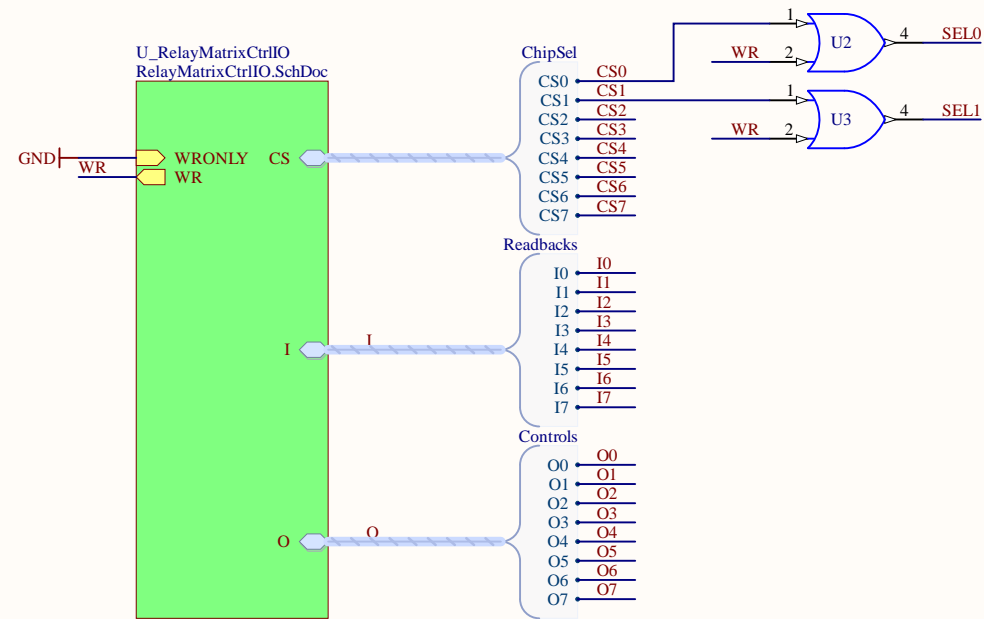
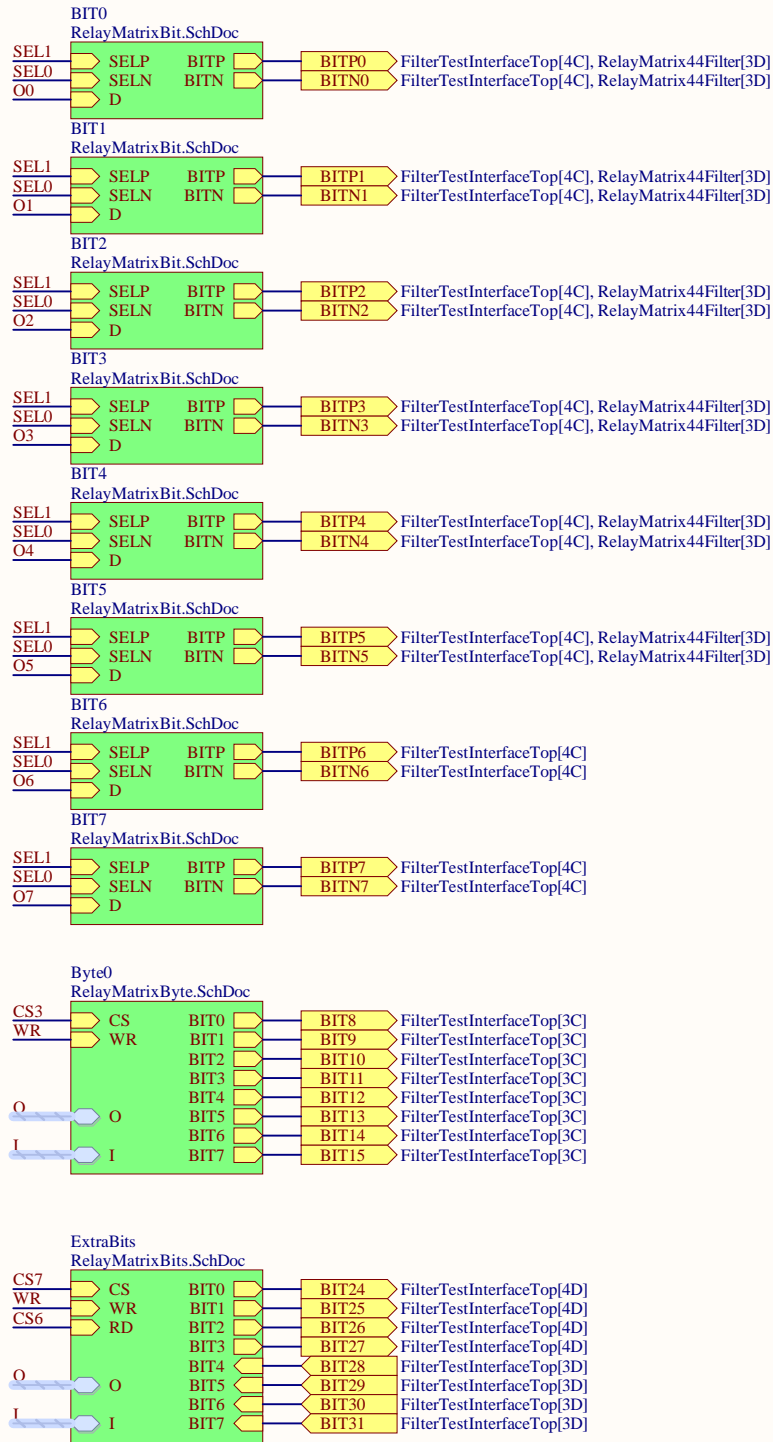
Volts	Parts	
5V	LM2940CSX-5.0	Texas Instruments
12V	LM2940CSX-12	Texas Instruments



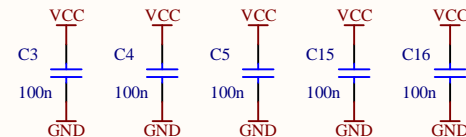
Title Relay Matrix 4x4 Filter		
Size B	Number D2500172	Revision 1
Date:	8/17/2025	Sheet 2 of 8
File:	C:\Users\...\RelayMatrix44Filter.SchDoc	Drawn By: Daniel Sigg



BITN0	BITN0	FilterTestInterfaceTop[3A], FilterTestInterfaceCtrl[2A]
BITP0	BITP0	FilterTestInterfaceTop[3A], FilterTestInterfaceCtrl[2A]
BITN1	BITN1	FilterTestInterfaceTop[3B]
BITP1	BITP1	FilterTestInterfaceTop[3B]
BITN2	BITN2	FilterTestInterfaceTop[3B]
BITP2	BITP2	FilterTestInterfaceTop[3B]
BITN3	BITN3	FilterTestInterfaceTop[4A], FilterTestInterfaceCtrl[2B]
BITP3	BITP3	FilterTestInterfaceTop[4A], FilterTestInterfaceCtrl[2B]
BITN4	BITN4	FilterTestInterfaceTop[4B], FilterTestInterfaceCtrl[2B]
BITP4	BITP4	FilterTestInterfaceTop[4B], FilterTestInterfaceCtrl[2B]
BITN5	BITN5	FilterTestInterfaceTop[4B], FilterTestInterfaceCtrl[2B]
BITP5	BITP5	FilterTestInterfaceTop[4B], FilterTestInterfaceCtrl[2B]



Off board connector for additional relays
Usable for enabling/disabling AA and AI filters



Title		
Filter Test Interface: Controls		
Size	Number	Revision
B	D2500172	1
Date:	8/17/2025	Sheet 3 of 8
File:	C:\Users\...\FilterTestInterfaceCtrl.SchDoc	Drawn By: Daniel Sigg

A

B

C

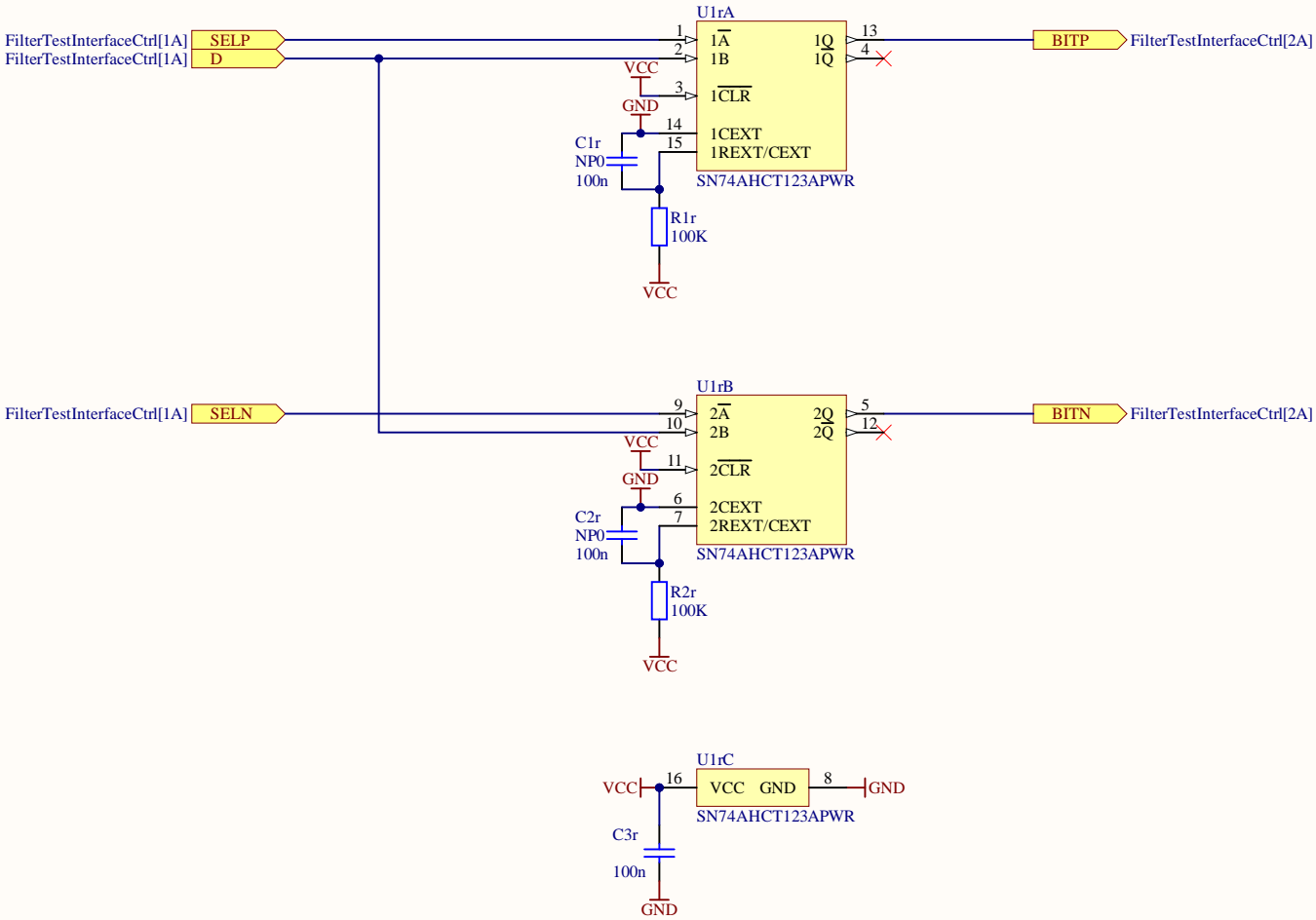
D

A

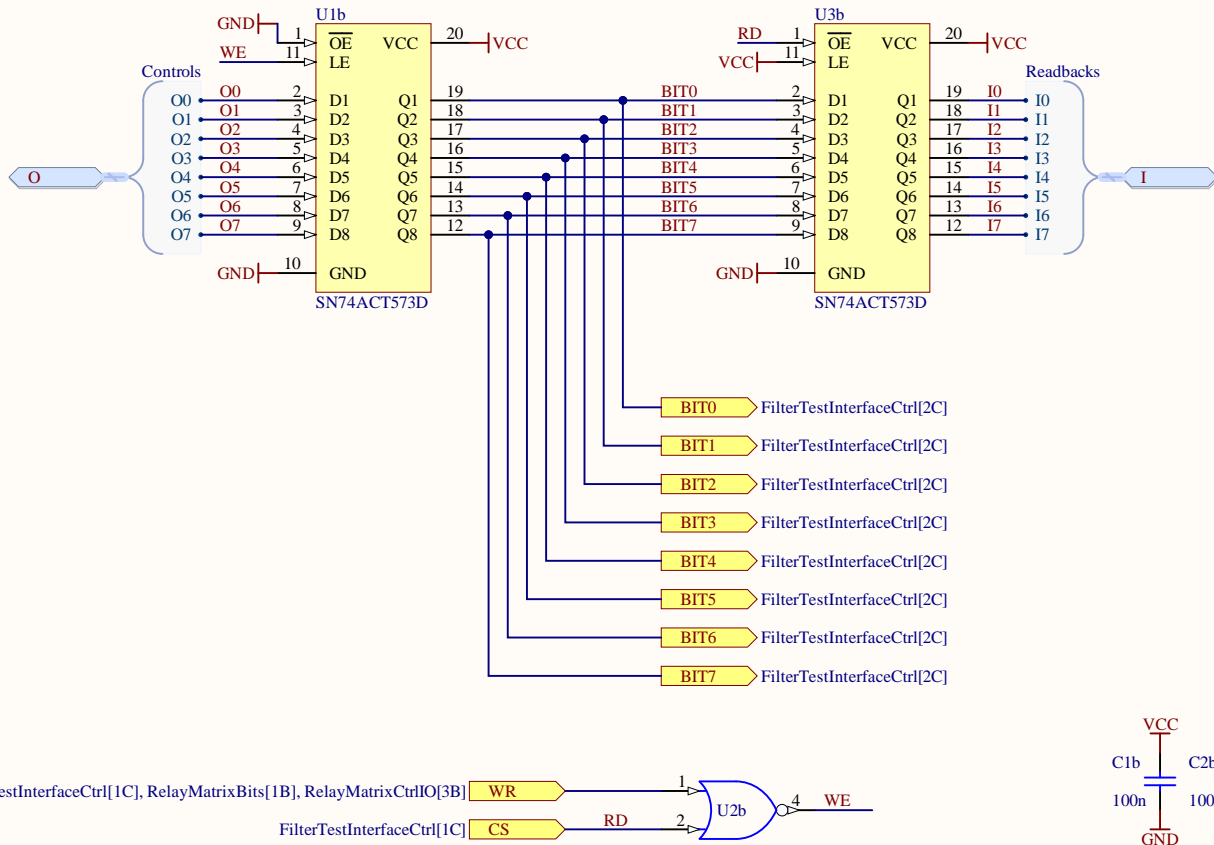
B

C

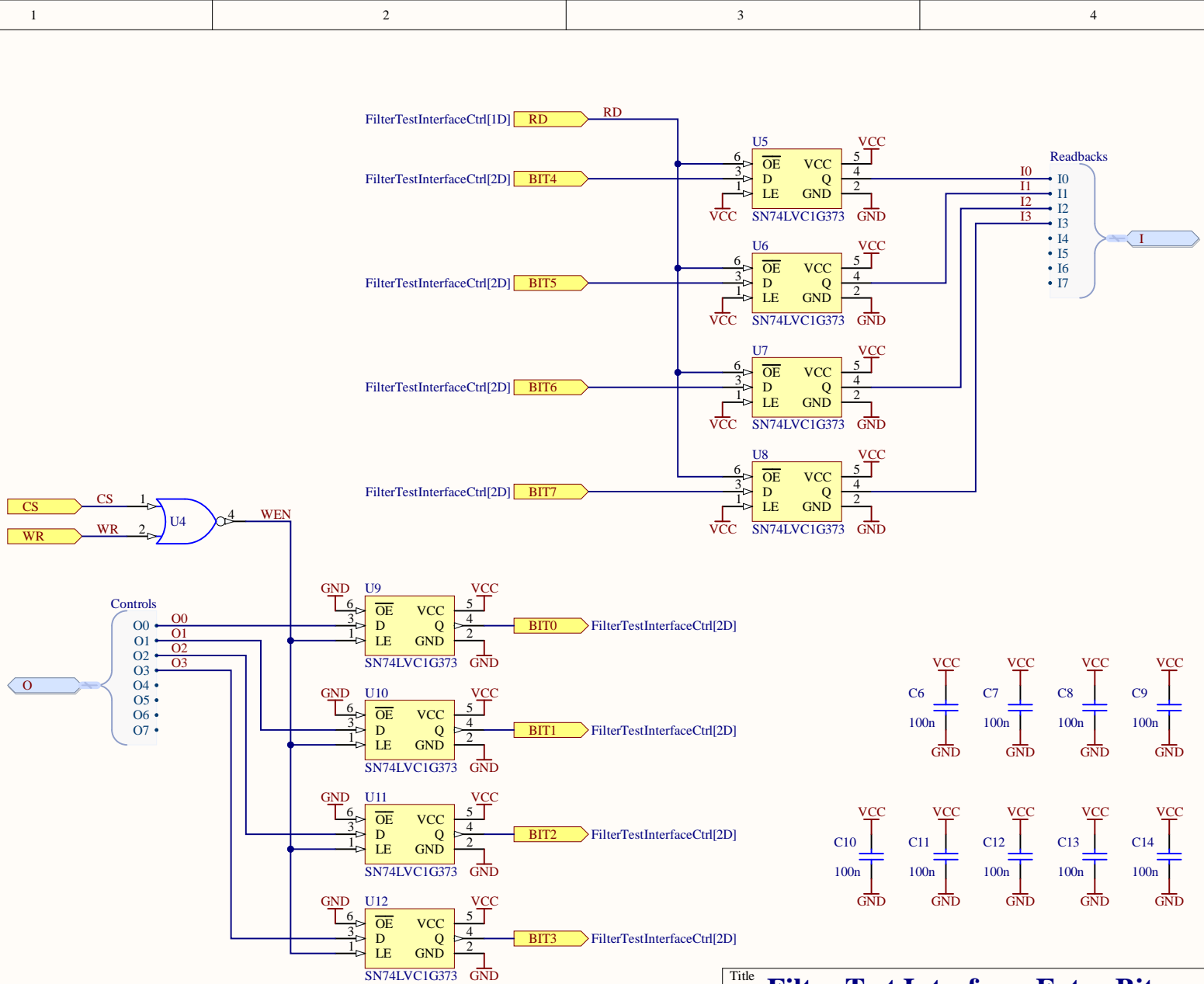
D



Title			Relay Matrix Bit Control	
Size	Number	D2500170		Revision
A				1
Date:	8/17/2025		Sheet of	
File:	C:\Users\...\RelayMatrixBit.SchDoc		Drawn By: Daniel Sigg	



Title		
Relay Matrix Byte Control		
Size	Number	Revision
A	D2500172	1
Date:	8/17/2025	Sheet 5 of 8
File:	C:\Users\...\RelayMatrixByte.SchDoc	Drawn By: Daniel Sigg



Title			Filter Test Interface: Extra Bits	
Size	Number	D2500172		Revision
A				1
Date:	8/17/2025		Sheet 6 of	8
File:	C:\Users\...\RelayMatrixBits.SchDoc		Drawn By: Daniel Sigg	

A

B

C

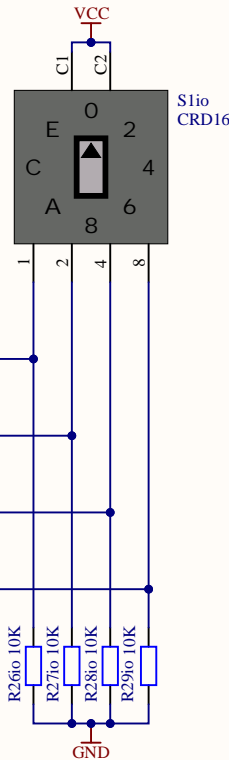
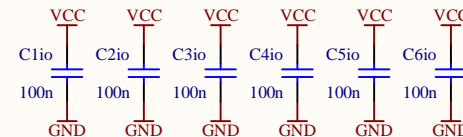
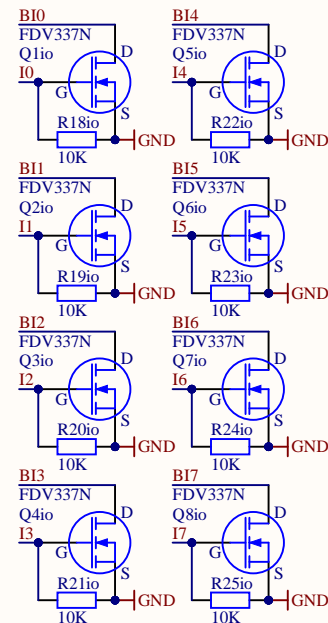
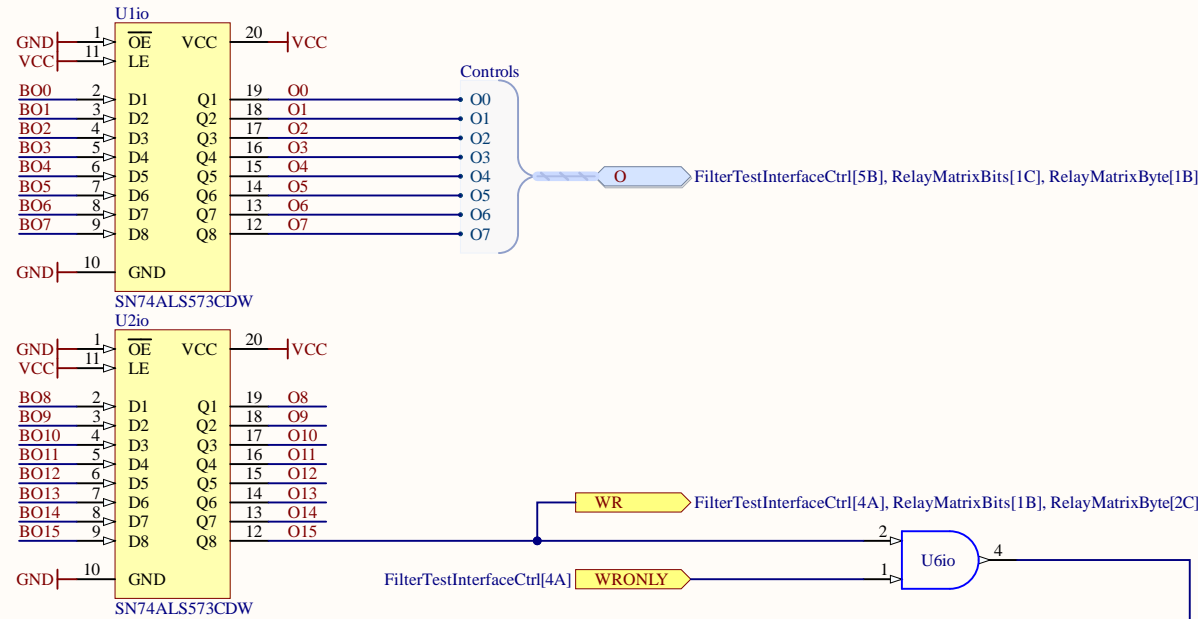
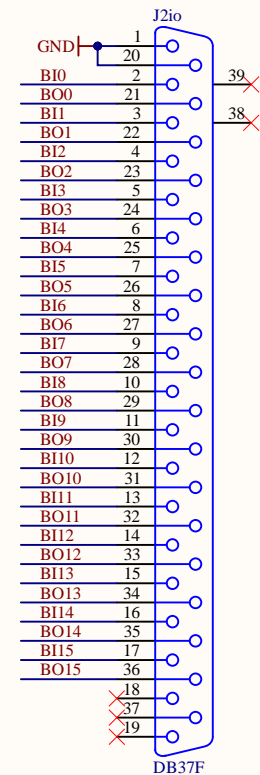
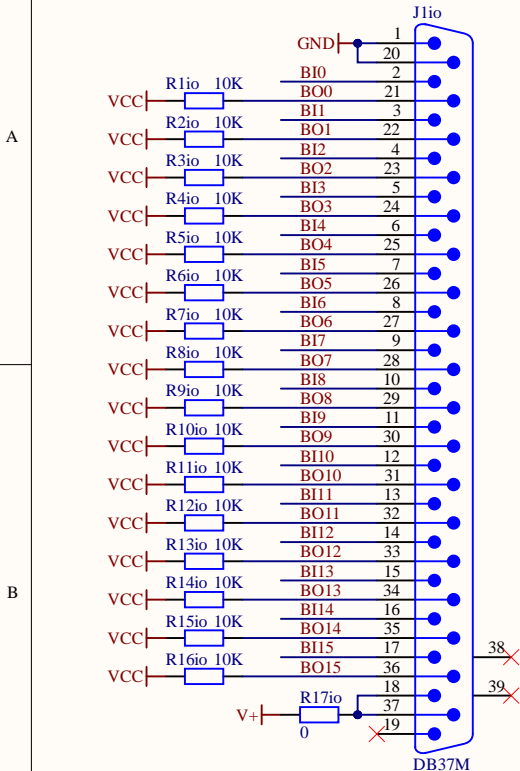
D

A

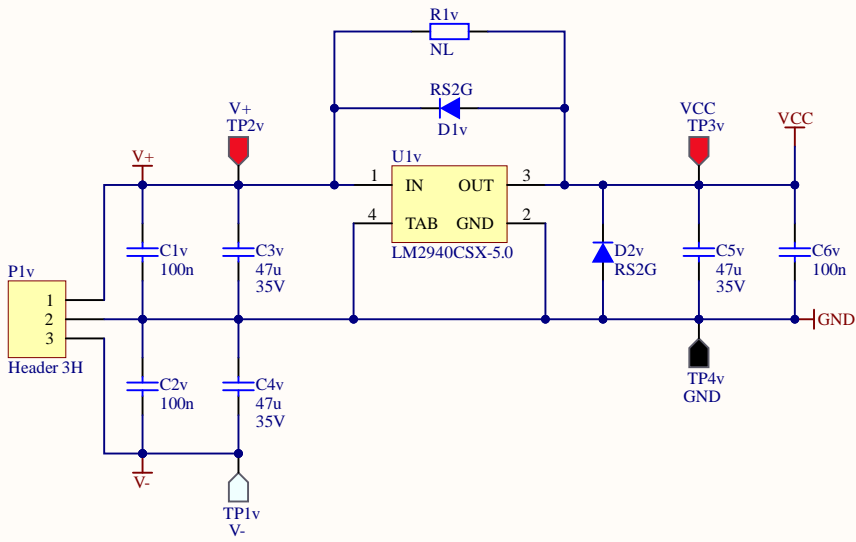
B

C

D



Title		
Relay Matrix Controls IO		
Size	Number	Revision
B	D2500170	1
Date:	8/17/2025	Sheet of
File:	C:\Users\...\RelayMatrixCtrlIO.SchDoc	Drawn By: Daniel Sigg



Title			Regulator VCC	
Size	Number	D2500170		Revision
A				1
Date:	8/17/2025		Sheet of	
File:	C:\Users\...\RegulatorVcc.SchDoc		Drawn By: Daniel Sigg	

