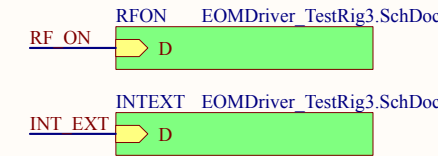
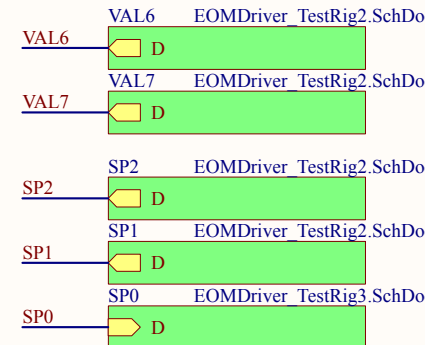
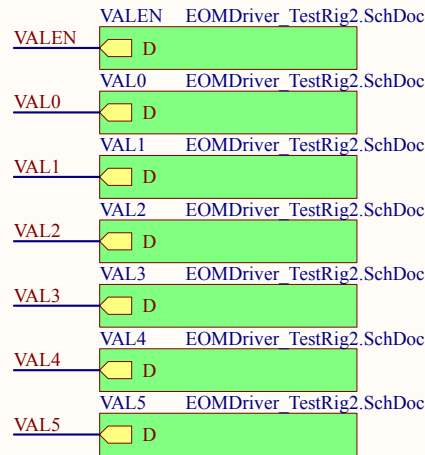
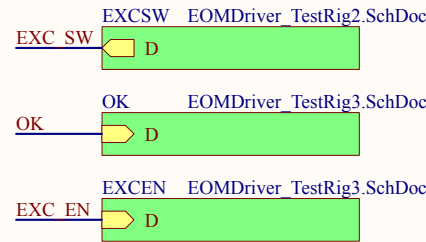
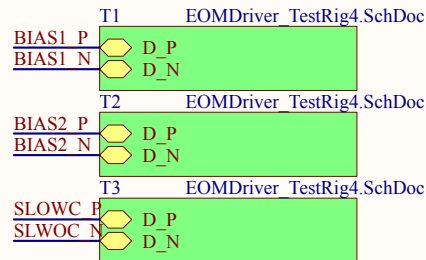
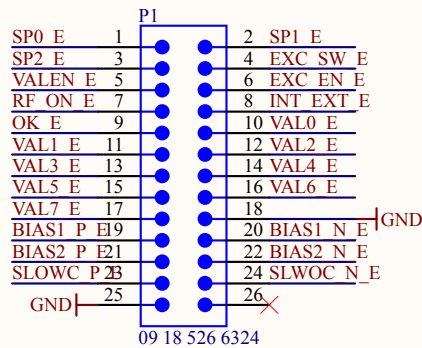
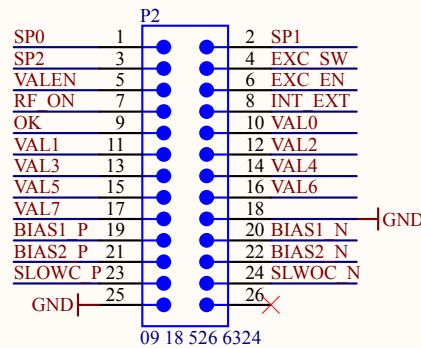


PN1 connector
Newark
10B6044



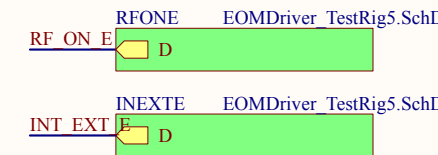
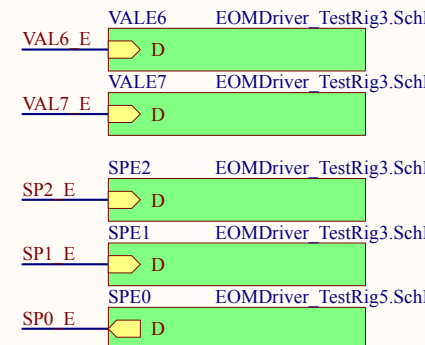
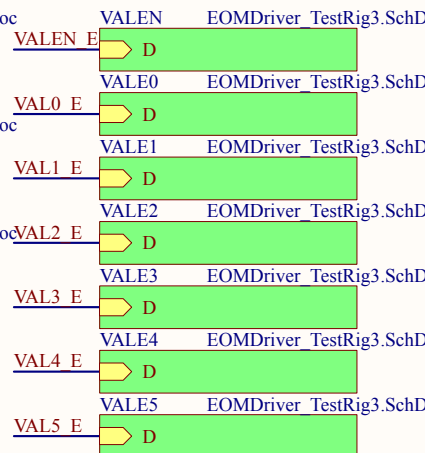
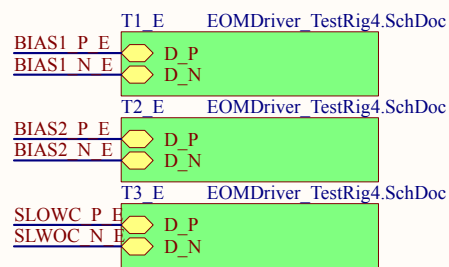
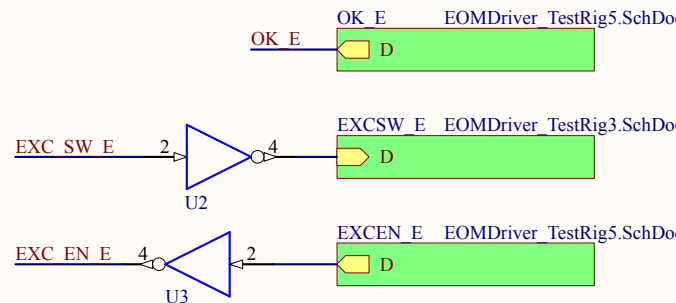
EOM Driver Signals (EtherCAT signals end in _E):

BIAS1_P[10]: Readback bias of the out-of-loop sensor
 BIAS2_P[11]: Readback bias of the in-loop sensor
 SLOWCTRL_P[12]: Readback slow control signal of the in-loop sensor

VAL[9,21,8,20,7,19,6,18]: Value set point (active low, TTL)
 VALEN[3]: Latch enable for value (active low, TTL)
 EXC_SW[15]: Enable/disable excitation input by pulling low (TTL)
 SP1[14]: spare binary setting
 SP2[2]: spare binary setting

EXC_EN[16]: Readback for excitation enable (TTL, high is on)
 RF_ON[4]: Readback for RF amplifier on/off switch (TTL, high is on)
 INTTEXT[17]: Readback for Internal/External switch (TTL, Internal is high)
 OK[5]: Status bit (TTL) indicating that the input voltage is within range, low indicates fault
 SP0[1]: Spare binary readback

H1	Handle, 3"	E1	BNC lock washer	E18	BNC nut	PN2	Front Panel
H2	Handle, 3"	E2	BNC lock washer	E19	BNC nut	LIGO	D1500092-v1
Mouser		E3	BNC lock washer	E20	BNC nut	PN3	Rear Panel
534-9109		E4	BNC lock washer	E21	BNC nut	LIGO	D1500093-v1
H3	Ferrule	E5	BNC lock washer	E22	BNC nut		
H4	Ferrule	E6	BNC lock washer	E23	BNC nut	PN4	DB25cable
H5	Ferrule	E7	BNC lock washer	E24	BNC nut	Newark	05M6817
H6	Ferrule	E8	BNC lock washer	E25	BNC nut	PN5	IDC header
Mouser		E9	BNC lock washer	E26	BNC nut	PN6	IDC header
534-9121		E10	BNC lock washer	E27	BNC nut	Newark	73K6217
M1	#6-32 3/8" flat	E11	BNC lock washer	E28	BNC nut	PN7	Jack screw
M2	#6-32 3/8" flat	E12	BNC lock washer	E29	BNC nut	PN8	Jack screw
M3	#6-32 3/8" flat	E13	BNC lock washer	E30	BNC nut	Newark	80K5431
M4	#6-32 3/8" flat	E14	BNC lock washer	E31	BNC nut	PN10	Banana jack
McMaster-Carr		E15	BNC lock washer	E32	BNC nut	Newark	39F1575
91099A215		E16	BNC lock washer	E33	BNC nut	PN9	Banana jack
H7	Standoff M-F	E17	BNC lock washer	E34	BNC nut	Newark	39F1574
H8	Standoff M-F						
H9	Standoff M-F	Newark	78M7215	Newark	78M7214		
H10	Standoff M-F						
H11	Standoff M-F	H19	Standoff F-F	M5	M4-8mm, flat	M11	M4-8mm, flat
H12	Standoff M-F	H20	Standoff F-F	M6	M4-8mm, flat	M12	M4-8mm, flat
H13	Standoff M-F	H21	Standoff F-F	M7	M4-8mm, flat	M13	M4-8mm, flat
H14	Standoff M-F	H22	Standoff F-F	M8	M4-8mm, flat	M14	M4-8mm, flat
H15	Standoff M-F	H23	Standoff F-F	M9	M4-8mm, flat	M15	M4-8mm, flat
H16	Standoff M-F	H24	Standoff F-F	M10	M4-8mm, flat	M16	M4-8mm, flat
H17	Standoff M-F						
H18	Standoff M-F						
Newark	56K3066	Newark	56K3039			McMaster-Carr	91420A218



Title		
EtherCAT EOM Driver Test Rig		
Size	Number	Revision
B	D1500091	1
Date:	2/26/2015	Sheet 1 of 4
File:	D:\Users\...\EOMDriver_TestRig1.SchDoc	Drawn By: Daniel Sigg

1

2

3

4

A

A

B

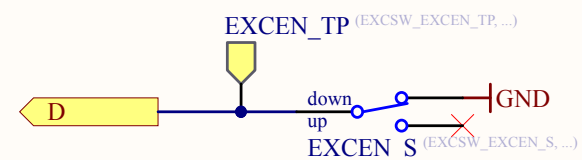
B

C

C

D

D



Title		EtherCAT Low Noise VCO Test Rig	
Size	Number	Revision	
A	D1100545	1	
Date:	2/26/2015	Sheet 2 of 4	
File:	D:\Users\...\EOMDriver_TestRig2.SchDoc Drawn By: F. Clara		

1

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A

A

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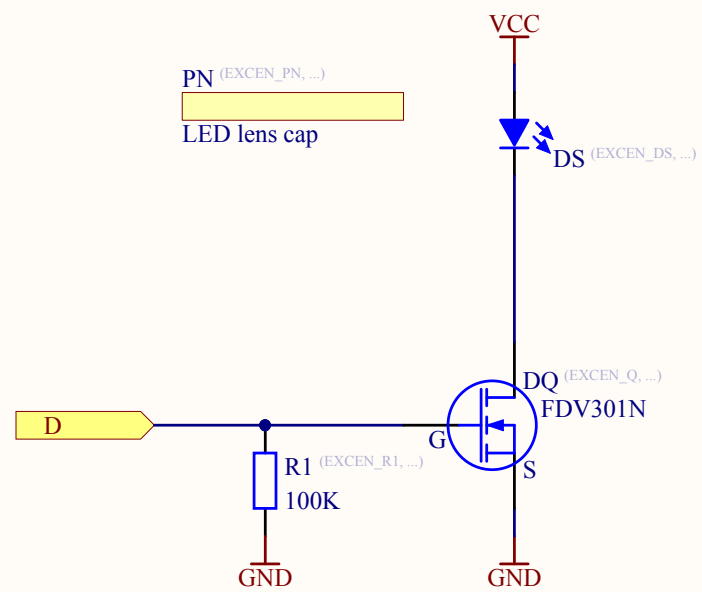
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C

C

D

D



Title			EtherCAT Low Noise VCO Test Rig		
Size	Number	Revision			
A	D1100545	1			
Date:	2/26/2015	Sheet 2 of 4			
File:	D:\Users\...\EOMDriver_TestRig3.SchDoc	Drawn By:		F. Clara	

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A

A

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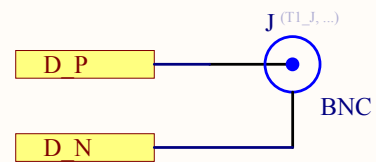
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C

C

D

D



Title		EtherCAT Low Noise VCO Test Rig	
Size	Number	Revision	
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Date:	2/26/2015	Sheet 4 of 4	
File:	D:\Users\...\EOMDriver_TestRig4.SchDoc	Drawn By: F. Clara	

1

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4

1

2

3

4

A

A

B

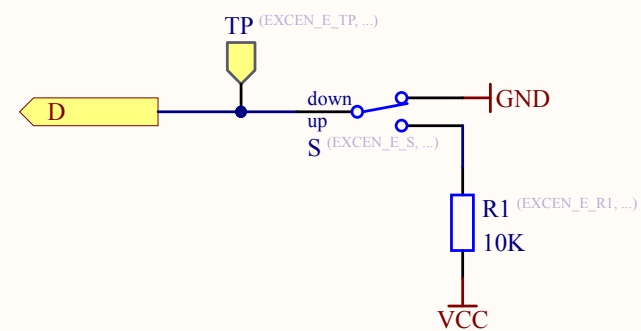
B

C

C

D

D



Title		EtherCAT Low Noise VCO Test Rig	
Size	Number	Revision	
A	D1100545	1	
Date:	2/26/2015	Sheet 2 of 5	
File:	D:\Users\...\EOMDriver_TestRig5.SchDoc Drawn By: F. Clara		

1

2

3

4