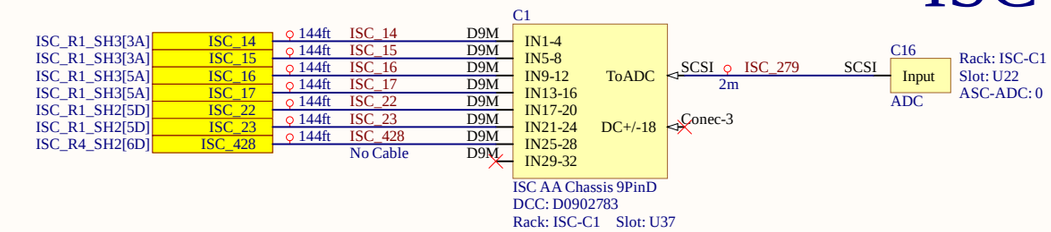
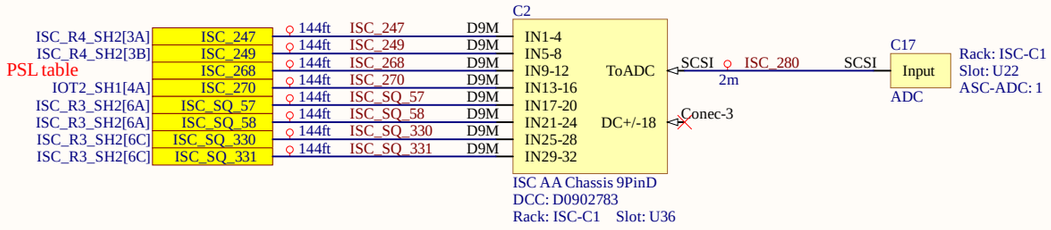
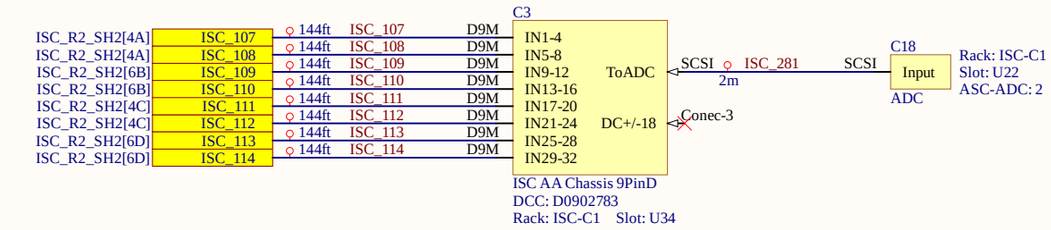
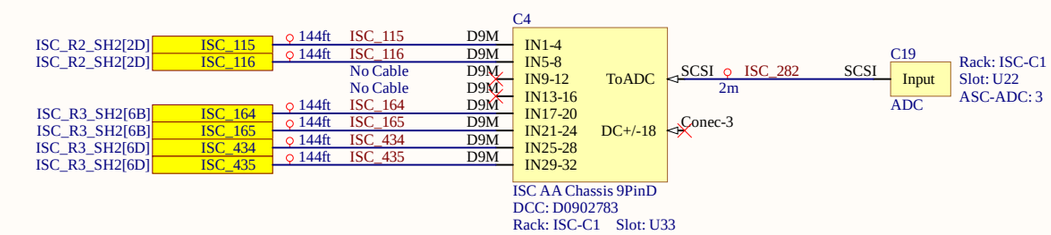
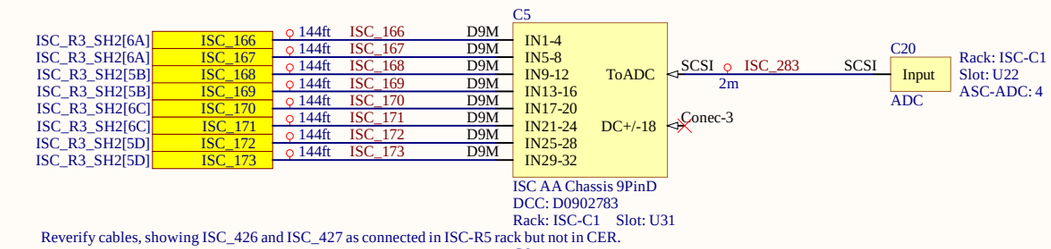
ISC-C1 Rack



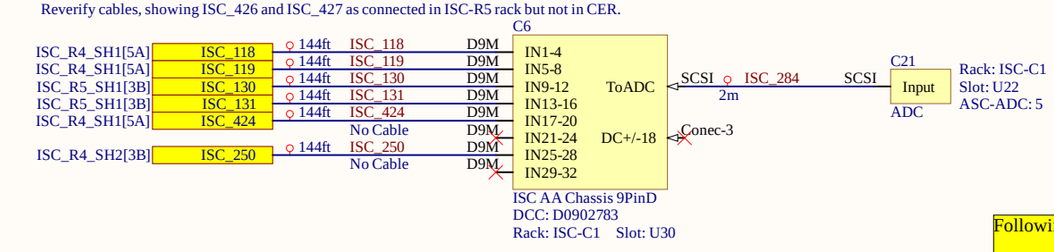


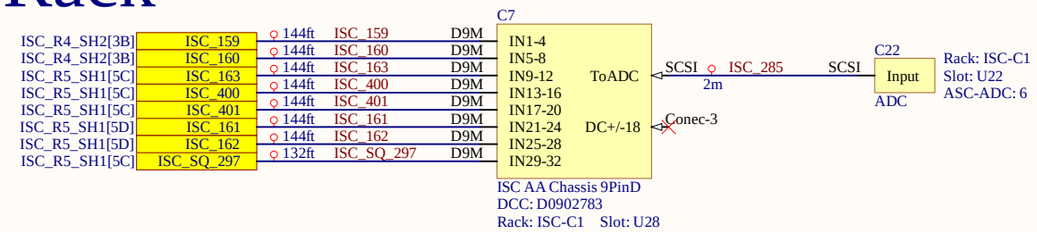


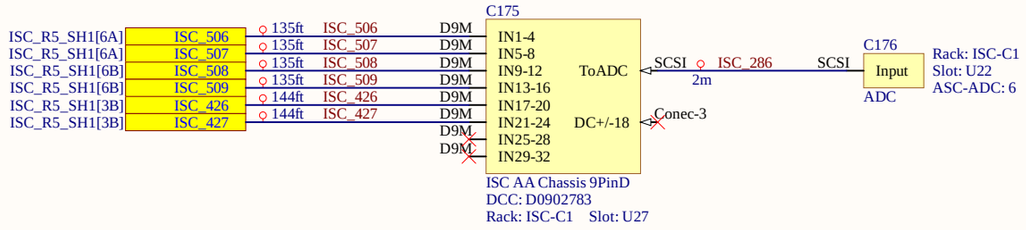


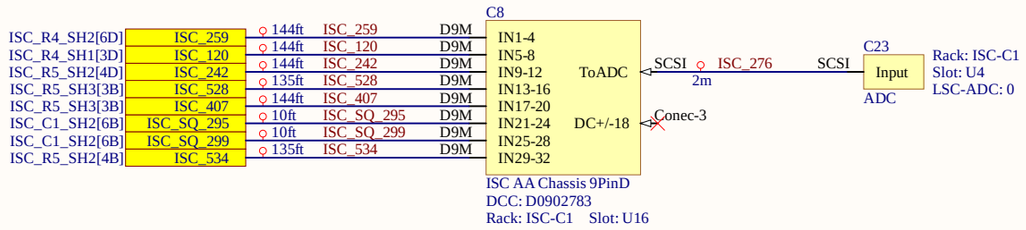


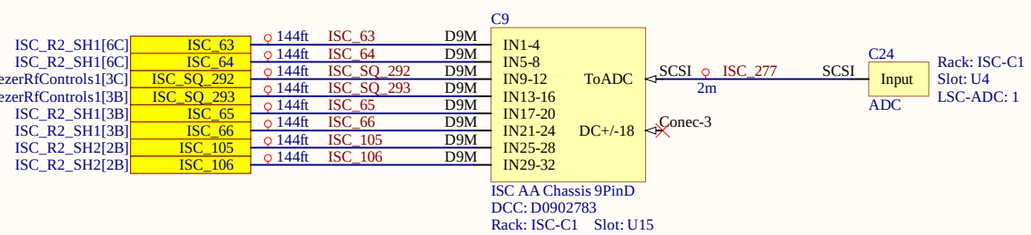
Reverify cables, showing ISC_426 and ISC_427 as connected in ISC-R5 rack but not in CER.

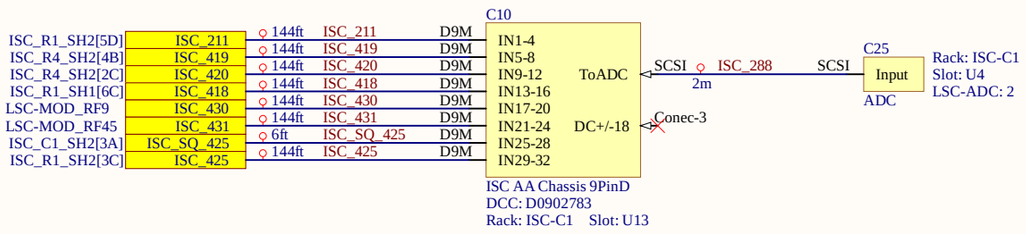


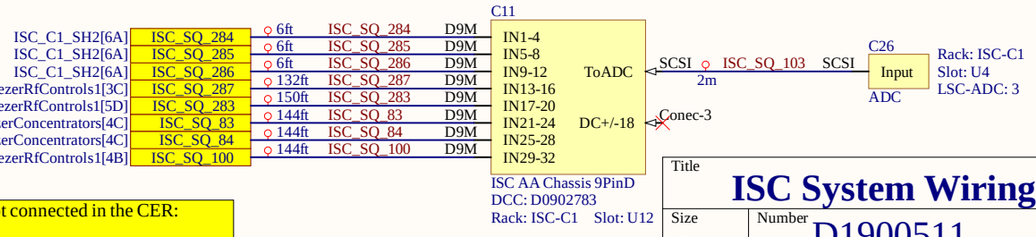










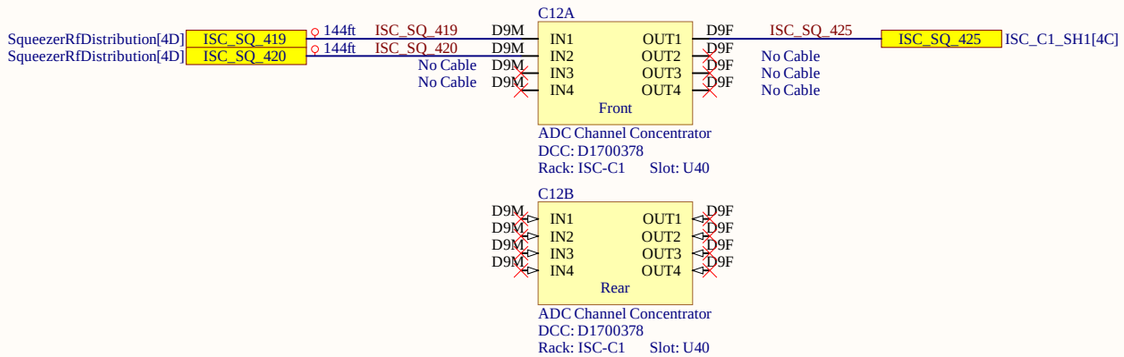


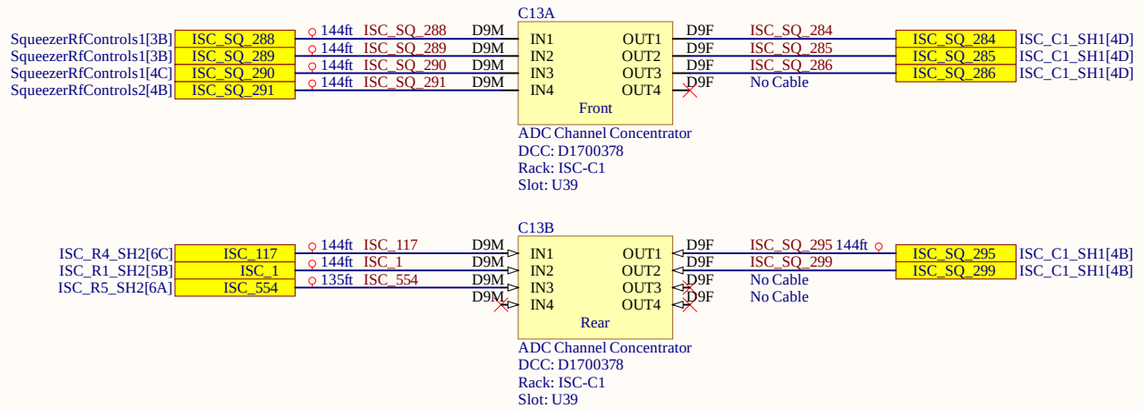
Following cables are not connected in the CER:

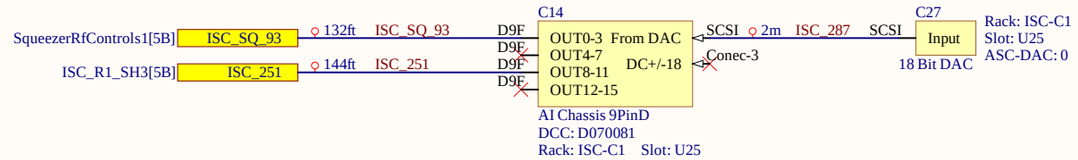
ISC_101, ISC_175, ISC_242, ISC_410.

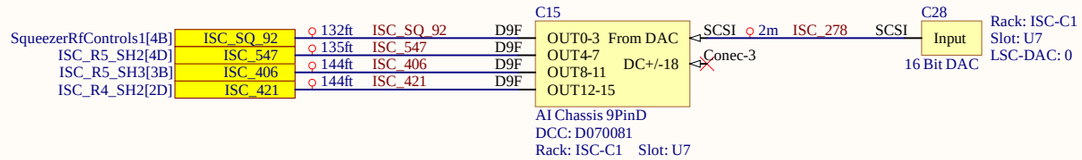
Title	ISC System Wiring Diagram		
Size: B	Number: D1900511	Revision: V10	
Date: 8/13/2024		Sheet of 1 37	
File: C:\Users\..\ISC_C1_SH1.SchDoc		Drawn By: Filiberto Clara	

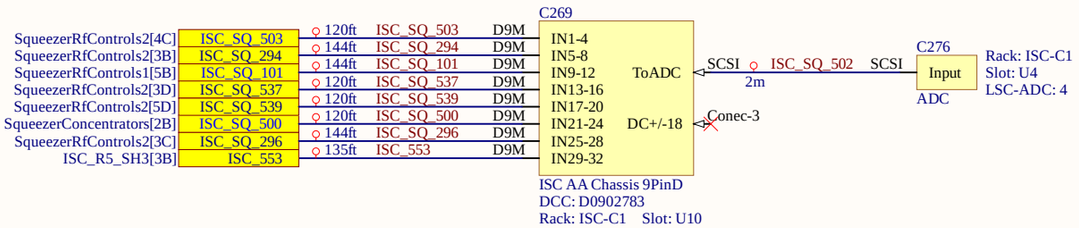
ISC-C1 Rack

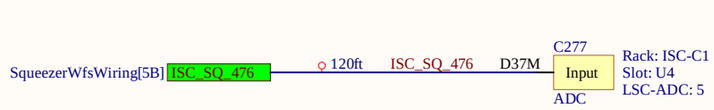


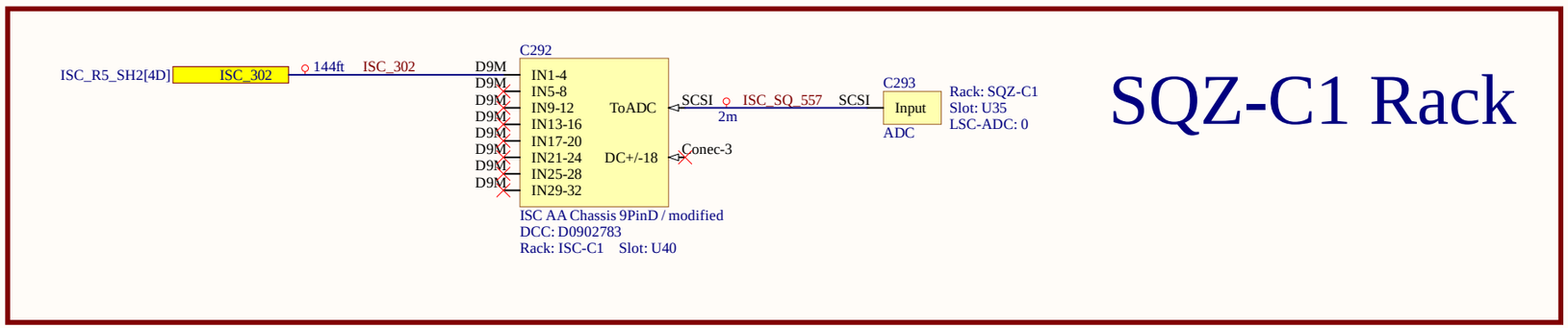












SQZ-C1 Rack

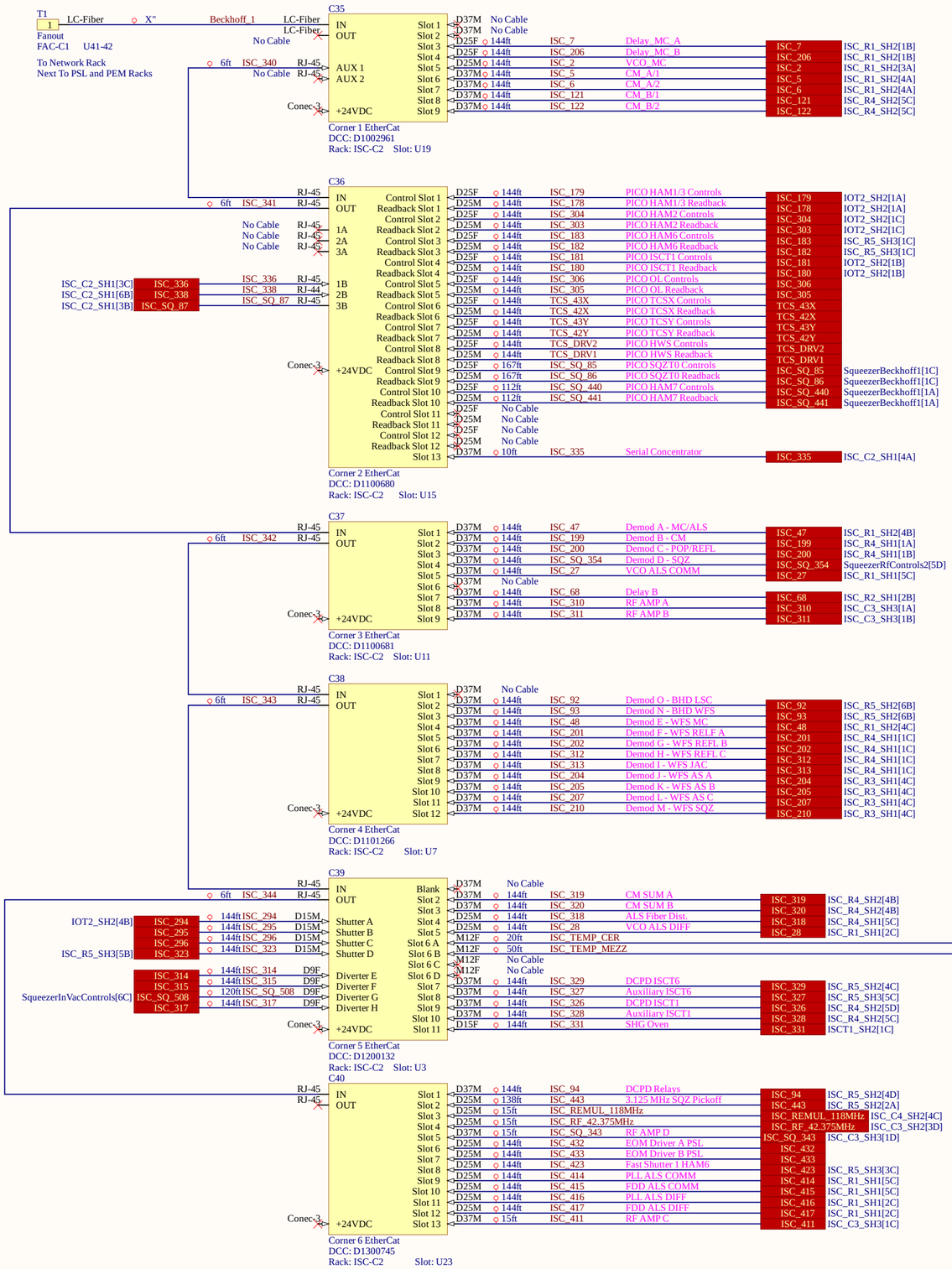
Title	**ISC System Wiring Diagram**		
Size B	Number D1900511	Revision V10	
Date: 8/13/2024		Sheet of 2 37	
File: C:\Users\..\ISC_C1_SH2.SchDoc		Drawn By: Filiberto Clara	

ISC-C2 Rack

RF Patch Panel 39 (SQZ-R2)

Title		
ISC System Wiring Diagram		
Size: B	Number: D1900511	Revision: V10
Date: 8/13/2024	Sheet of 3	37
File: C:\Users\..\ISC_C2_SH1.SchDoc	Drawn By: Filiberto Clara	

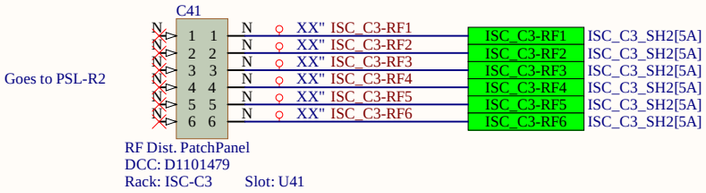
ISC-C2 Rack



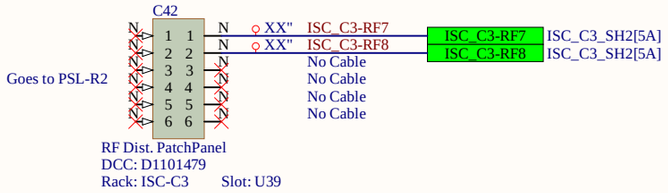
Title	**ISC System Wiring Diagram**	
Size: C	Number: D1900511	Revision: V10
Date: 8/13/2024	Sheet 6 of 37	
File: C:\Users\..\ISC_C2_SH2.SchDoc	Drawn By: Filiberto Clara	

ISC-C3 Rack

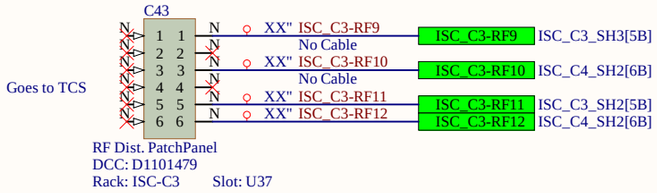
RF Patch Panel 7 (PSL)



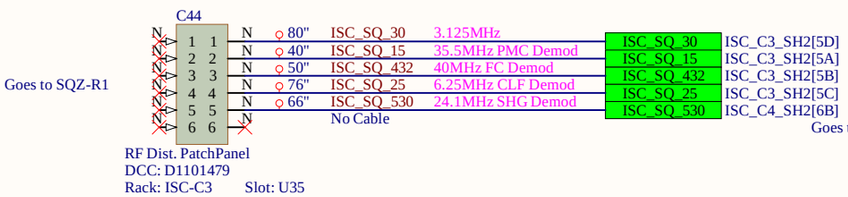
RF Patch Panel 8 (PSL)



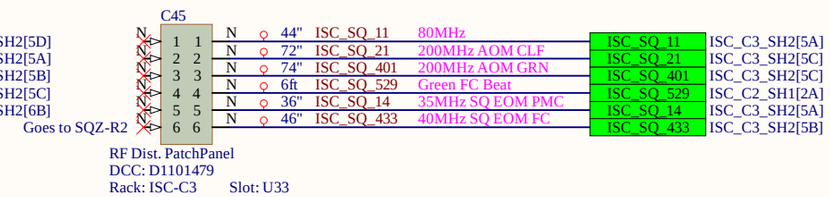
RF Patch Panel 9 (TCS)



RF Patch Panel 32 (SQZ-R1)



RF Patch Panel 33 (SQZ-R2)



Cables that are removed
ISC_SQ_31
ISC_SQ_12
ISC_SQ_78

Title	**ISC System Wiring Diagram**		
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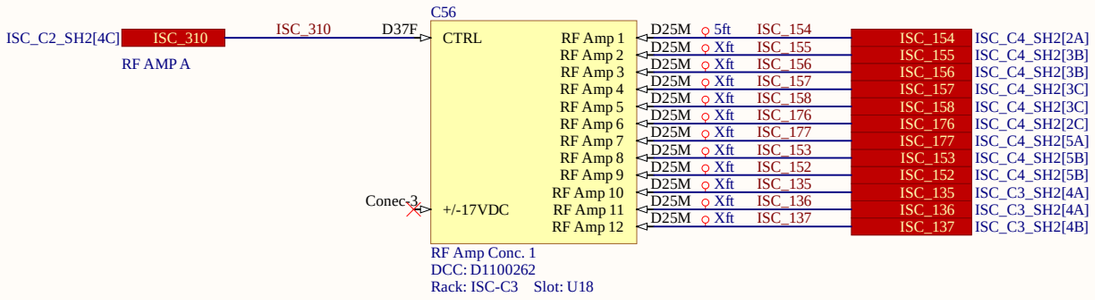
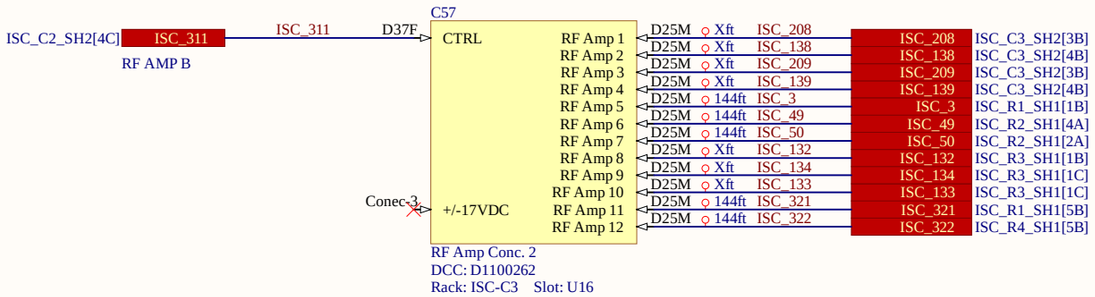
File: C:\Users\..\ISC_C3_SH1.SchDoc		Drawn By: Filiberto Clara	

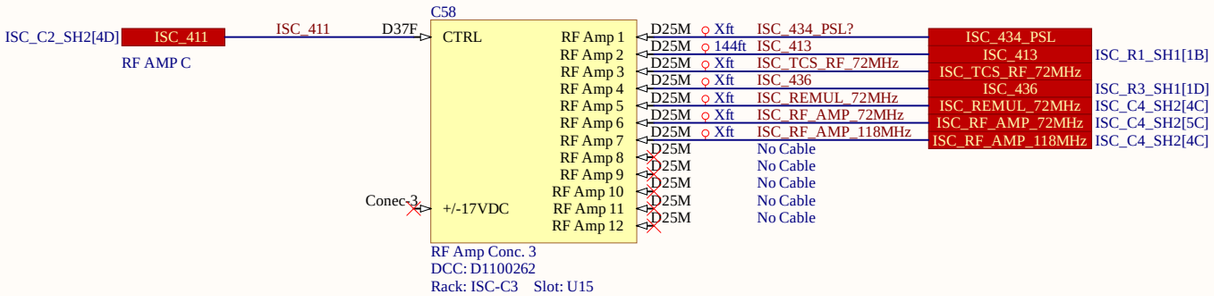
ISC-C3 Rack

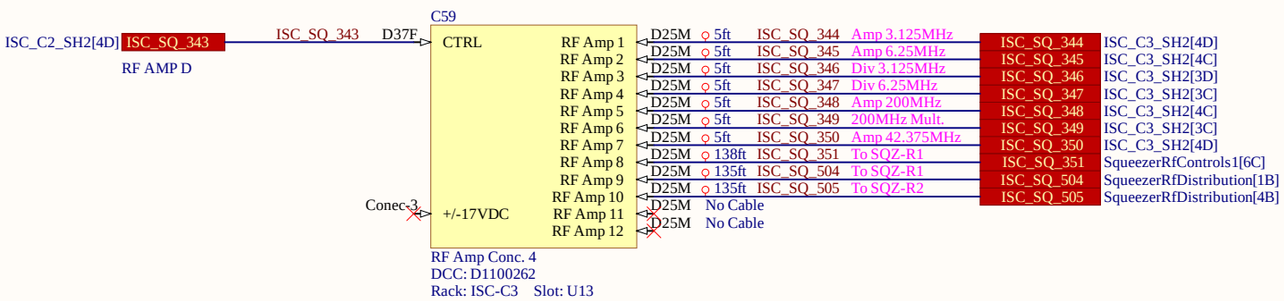
Title	**ISC System Wiring Diagram**		
Size C	Number D1900511	Revision V10	
Date: 8/13/2024		Sheet of 6 37	
File: C:\Users\..\ISC_C3_SH2.SchDoc		Drawn By: Filiberto Clara	

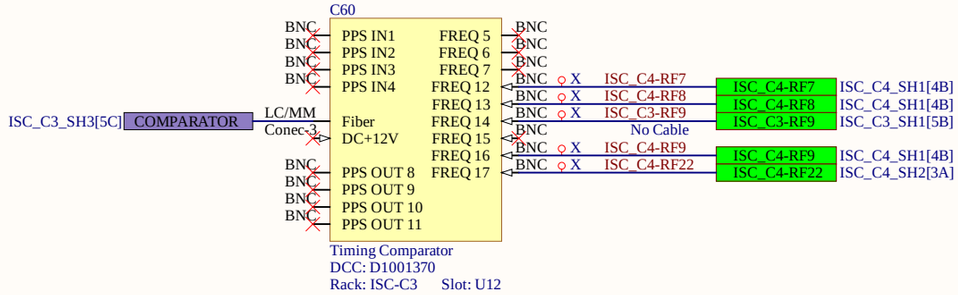
ISC-C3 Rack



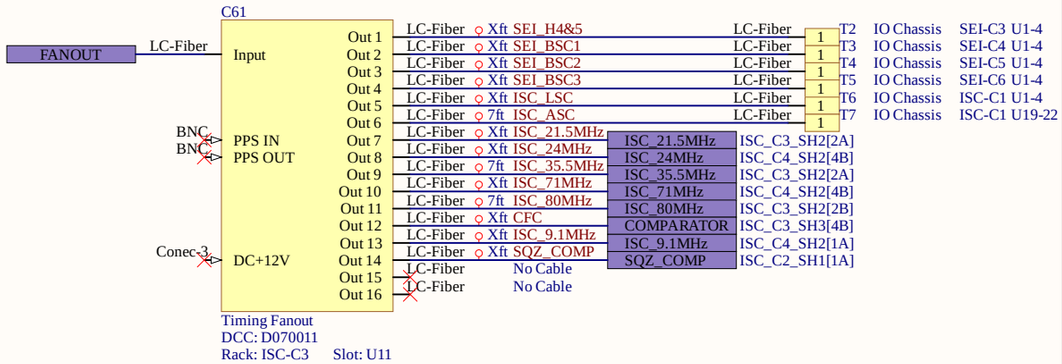








Need Locations of other ends.
SEI IO Chassis

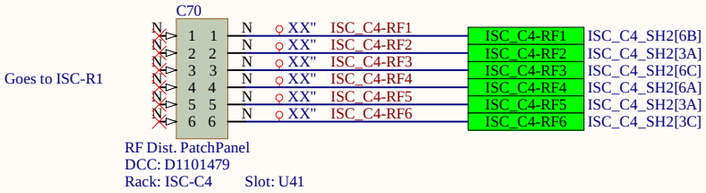


Title
ISC System Wiring Diagram

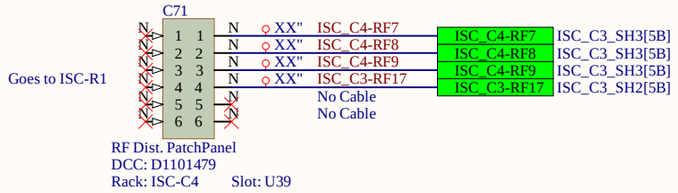
Size	Number	Revision
B	D1900511	V10
Date: 8/13/2024		Sheet of 7 37
File: C:\Users\..\ISC_C3_SH3.SchDoc		Drawn By: Filiberto Clara

ISC-C4 Rack

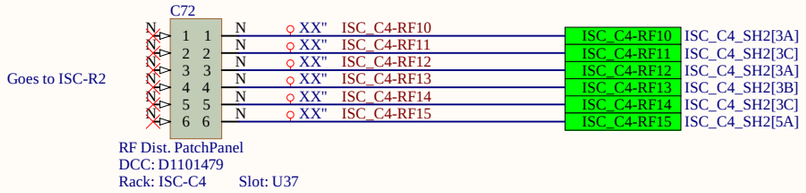
RF Patch Panel 1 (ISC-R1/IO)



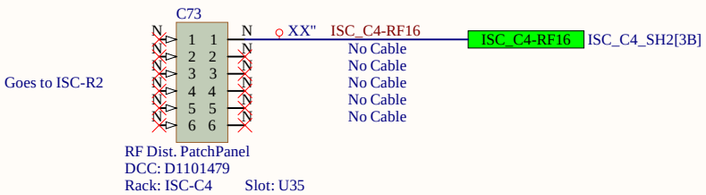
RF Patch Panel 2 (ISC-R1/IO)



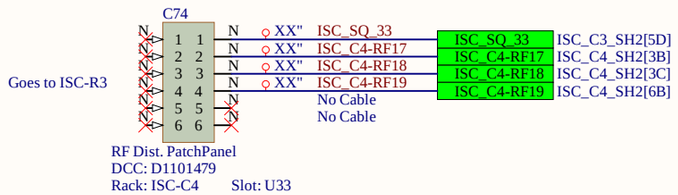
RF Patch Panel 3 (ISC-R2/REFL)



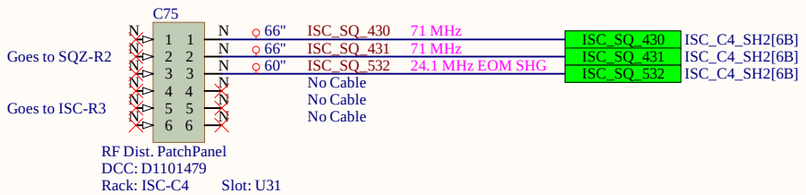
RF Patch Panel 4 (ISC-R2/REFL)



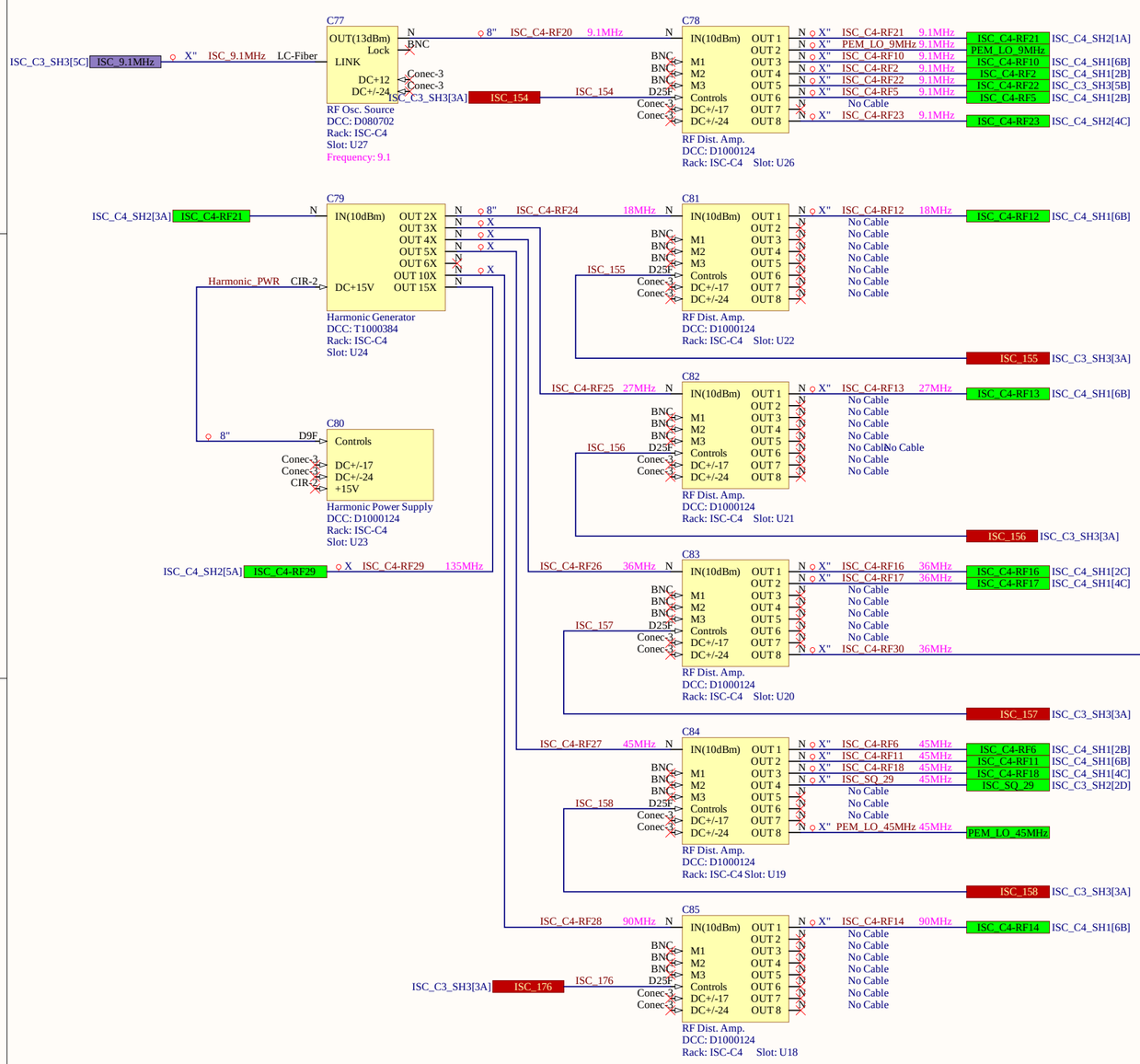
RF Patch Panel 5 (ISC-R3/AS)



RF Patch Panel 6 (SQZ-R2/ISC-R3)



Title	**ISC System Wiring Diagram**		
Size: B	Number: D1900511		Revision: V10
Date: 8/13/2024		Sheet of 8 37	
File: C:\Users\..\ISC_C4_SH1.SchDoc		Drawn By: Filiberto Clara	



ISC-C4 Rack

Title	ISC System Wiring Diagram
Size	C
Number	D1900511
Revision	V10
Date:	8/13/2024
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File:	C:\Users\..\ISC_C4_SH2.SchDoc
Drawn By:	Filiberto Clara

ISC-R1 Rack

RF Patch Panel 10

C95

RF Dist. PatchPanel
D1101479
Rack: ISC-R1 Slot: U41

ISC_R1_RF1	XMHz	ISC_R1-RF1	ISC_R1_SH1[1B]	
ISC_R1_RF2	XMHz	ISC_R1-RF2	ISC_R1_SH2[1B]	
ISC_R1_RF3	XMHz	ISC_R1-RF3		
ISC_R1_RF4	XMHz	ISC_R1-RF4	ISC_R1_SH1[1B]	
ISC_R1_RF5	XMHz			
ISC_R1_RF6	XMHz			

T8 EOM?? PSL-R2 U7-8
T9 EOM?? PSL-R2 U7-8

R1-RF5 and R1-RF6 go to PSL Rack R2
U Slot U7 & U8, 9 MHz and 45 MHz

RF Patch Panel 11

C96

RF Dist. PatchPanel
D1101479
Rack: ISC-R1 Slot: U39

ISC_R1_RF7	ISC_R1-RF7	ISC_R1_SH1[2C]	
ISC_R1_RF8	ISC_R1-RF8	ISC_R1_SH1[5C]	
ISC_R1_RF9	ISC_R1-RF9	ISC_R1_SH2[3A]	
ISC_R1_RF10	ISC_R1-RF10	ISC_R4_SH1[4B]	

RF Patch Panel 12

C97

RF Dist. PatchPanel
D1101479
Rack: ISC-R1 Slot: U37

ISC_R1_RF11 — ISC_R1-RF11 — ISC_R1_SH2[3A]

C98

RF Dist. Amp.
DCC: D1000124
Rack: ISC-R1 Slot: U36

ISC_R1_SH1[2A]	ISC_R1-RF1	ISC_R1-RF12	71MHz	ISC_R1_SH1[1C]
		ISC_R1-RF13	71MHz	ISC_R1_SH1[1C]
	No Cable	ISC_R1-RF14	71MHz	ISC_R1_SH1[3C]
	No Cable	ISC_R1-RF15	71MHz	ISC_R1_SH1[3C]
	No Cable			
ISC_C3_SH3[3C]	ISC_413	No Cable		
		ISC_R1-RF16	71MHz	ISC_R1-RF16

C99

RF Dist. Amp.
DCC: D1000124
Rack: ISC-R1 Slot: U35

ISC_R1_SH1[2A]	ISC_R1-RF4	ISC_R1-RF17	24.078MHz	ISC_R1_SH3[1B]
		ISC_R1-RF18	24.078MHz	ISC_R1_SH3[1D]
	No Cable	ISC_R1-RF19	24.078MHz	ISC_R1_SH2[1B]
	No Cable			
ISC_C3_SH3[3B]	ISC_3	No Cable		
		No Cable		
		ISC_R1-RF20	24.078MHz	T10 D1800116 PSL-R2 U4-5

To PSL R2 U4& U5
D1800116 (24.04MHz In)

C100

C100

BNC Lemo 2P	ISC_R1-RF22	ISC_R1_SH1[3B]	
	ISC_R1-RF7	ISC_R1_SH1[3A]	
ISC_R1_SH1[2C]	ISC_R1-RF21	ISC_417	ISC_C2_SH2[4D]
ISC_R1_SH1[2B]	ISC_R1-RF13	ISC_422	
		ISC_416	ISC_C2_SH2[4D]
ISC_R1_SH1[5B]	ISC_R1-RF23		
ISC_R1_SH1[1C]	ISC_R1-RF24		

DCC: D0900605
VCO_PLL
Rack: ISC-R1 Slot: U32

C101

C101

ISC_R1_SH1[1C]	ISC_R1-RF24 Lemo 2P	ISC_R1-RF21	ISC_R1_SH1[1C]
	8" ISC_R1-RF25		
ISC_R1_SH1[2B]	ISC_R1-RF12	ISC_28	ISC_C2_SH2[4C]

VCO
DCC: D0900605
Rack: ISC-R1 Slot: U30

C102

C102

X2 Freq. Mult.
DCC: D1002178
ISC-R1 Slot: U28

ISC_R1_SH1[2B]	ISC_R1-RF22	ISC_R1-RF26	ISC_R1_SH1[3B]
	Conec-3		
	Conec-3		
	ISC_321	ISC_321	ISC_C3_SH3[3B]

C103

2-Chan Discriminator
DCC: D1002476
Rack: ISC-R1 Slot: U27

Need to label or find cable number

ISC_R1_SH1[5B]	ISC_R1-RF26 TNC		ISC_R1-RF23	ISC_R1_SH1[1C]
ISC_R1_SH1[5C]	ISC_R1-RF29 TNC		ISC_R1-RF30	ISC_R1_SH1[3C]
	Conec-3			
	Conec-3			
ISC_R1_SH1[3D]	ISC_R1-RF27 SMA			
ISC_R1_SH1[3D]	ISC_R1-RF28 SMA			
		D15F 5ft ISC_46	ISC_46	ISC_R1_SH2[5B]
		D9F XX" ISC_X5	ISC_X5	

C105

C105

ISC_R1_SH1[3C]	ISC_R1-RF33 Lemo 2P	ISC_R1-RF35	ISC_R1_SH1[3C]
	8" ISC_R1-RF34		
ISC_R1_SH1[2B]	ISC_R1-RF14	ISC_27	ISC_C2_SH2[4B]

VCO
DCC: D0900605
Rack: ISC-R1 Slot: U24

C106

C106

		ISC_R1-RF29		ISC_R1_SH1[3B]
		ISC_R1-RF8		ISC_R1_SH1[3A]
ISC_R1_SH1[5C]	8" ISC_R1-RF35	ISC_415	ISC_415	ISC_C2_SH2[4D]
ISC_R1_SH1[2B]	ISC_R1-RF15	ISC_422		
		ISC_414	ISC_414	ISC_C2_SH2[4D]
ISC_R1_SH1[5B]	X" ISC_R1-RF30 TNC			
ISC_R1_SH1[3C]	X" ISC_R1-RF33 Lemo 2P			

DCC: D2400246

C177
2 1 D9F ISC_418 — ISC_418 — ISC_C1_SH1[4C]
In-Air Connection
Rack: ISC-R1
Slot: U22

Recheck cables for U22
In back for PLL

DCC: D0900605
VCO_PLL
Rack: ISC-R1 Slot: U22

Possibly Cable 30

ISC_HAM1_PD	ISC_HAM1_PD		
ISC_R4-1B	ISC_R4-1B		
ISC_R1_SH2[1C]	ISC_R1-RF31 TNC	1	D1201470 U26 ISC-R1
ISC_R1_SH2[1C]	ISC_R1-RF32 TNC	2	D1201470 U26 ISC-R1
ISC_R1_SH1[3B]	ISC_R1-RF27 TNC	3	D1201470 U26 ISC-R1
ISC_R1_SH1[3B]	ISC_R1-RF28 TNC	4	D1201470 U26 ISC-R1
Cable_Temp_29	Cable_Temp_29		
Cable_Temp_30	Cable_Temp_30		

Title	ISC System Wiring Diagram
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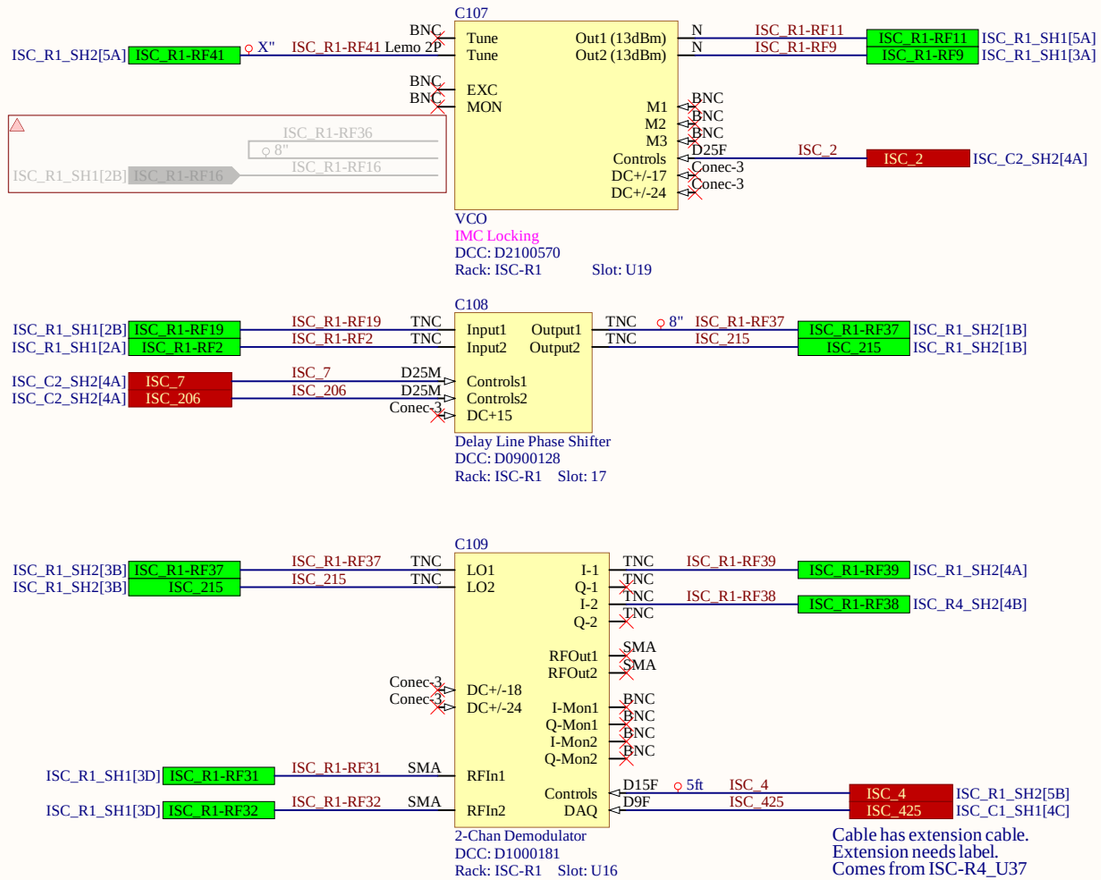
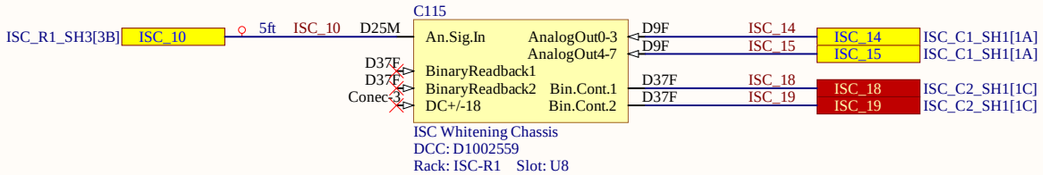
File:	C:\Users\..\ISC_R1_SH1.SchDoc
Drawn By:	Filiberto Clara

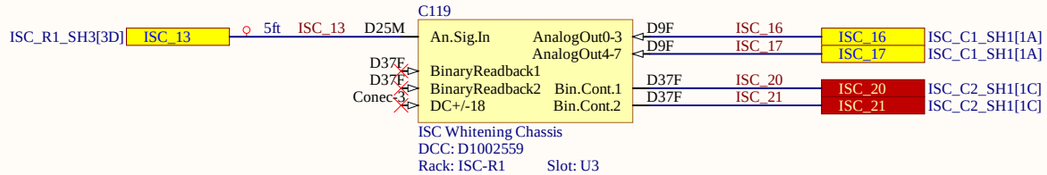
ISC-R1 Rack



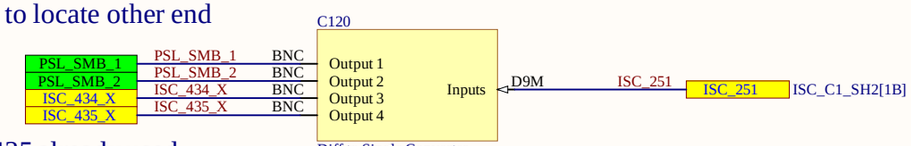
Title	**ISC System Wiring Diagram**	
Size: B	Number: D1900511	Revision: V10
Date: 8/13/2024	Sheet 1 of 37	
File: C:\Users\..\ISC_R1_SH2.SchDoc	Drawn By: Filiberto Clara	

ISC-R1 Rack

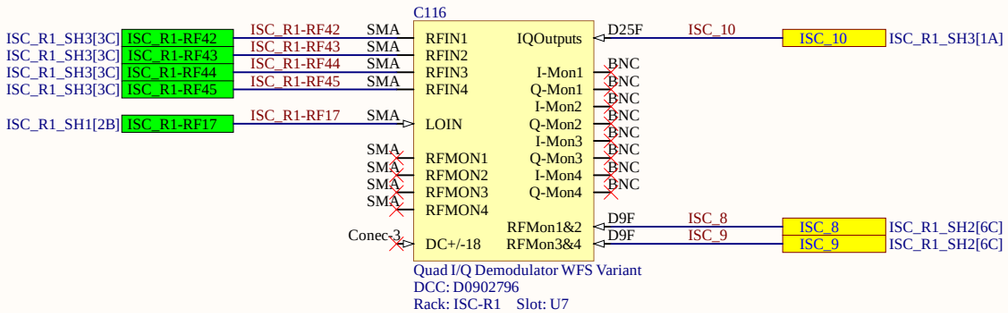


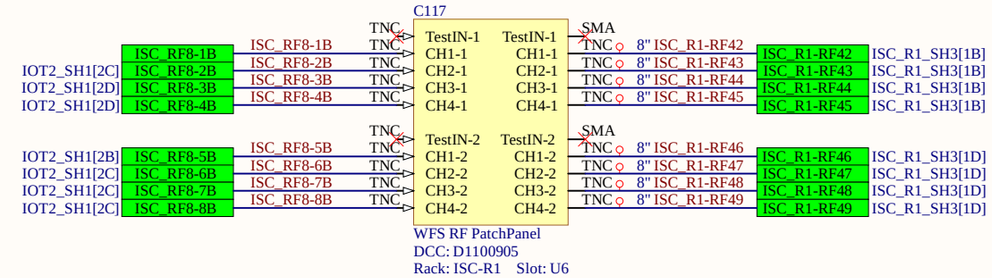


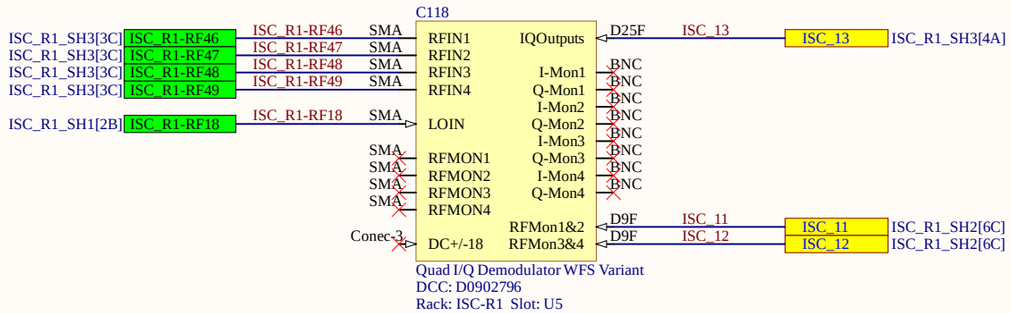
Need to locate other end



434/435 already used
ASC-POP_X_PIT/YAW







Title		
ISC System Wiring Diagram		
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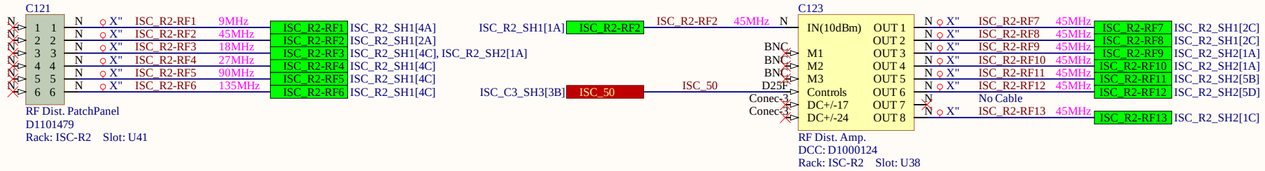
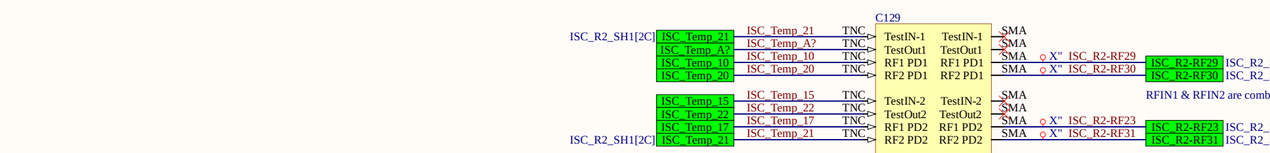
File: C:\Users\..\ISC_R1_SH3.SchDoc	Drawn By: Filiberto Clara	

ISC-R2 Rack

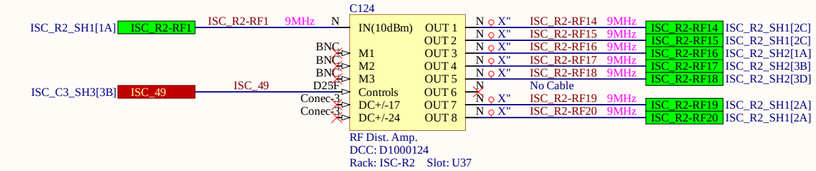
RF Patch Panel 13



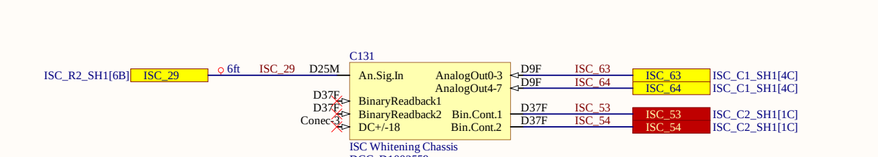
RF Patch Panel 14



RF Patch Panel 15



RF Patch Panel 16



LSC POPAIR A 9&45, LSC REFLAIR A 45

LSC POPAIR B 18&90, LSC REFLAIR B 27&135

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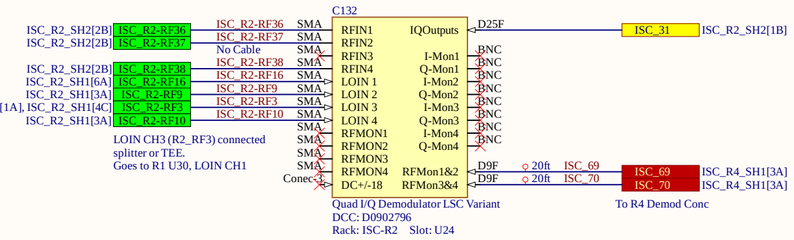
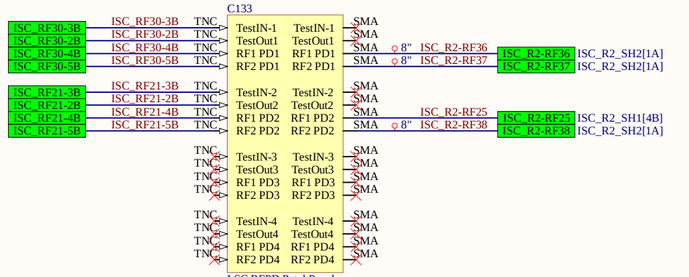
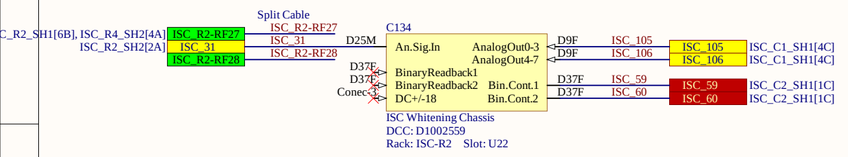
ISC-R2 Rack

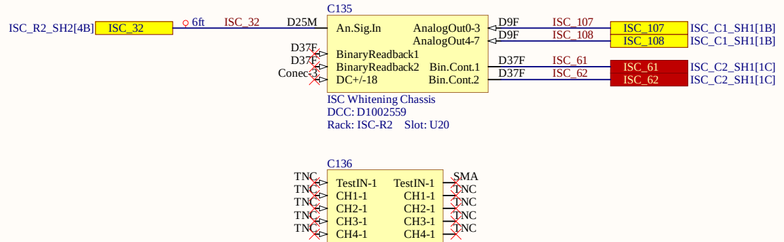
LSC POP, LSC REFL

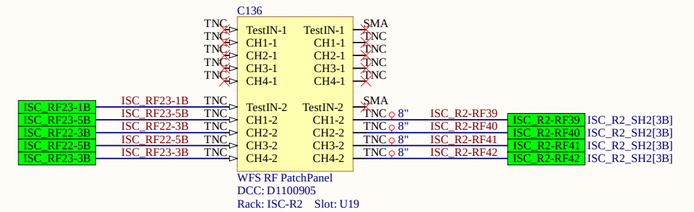


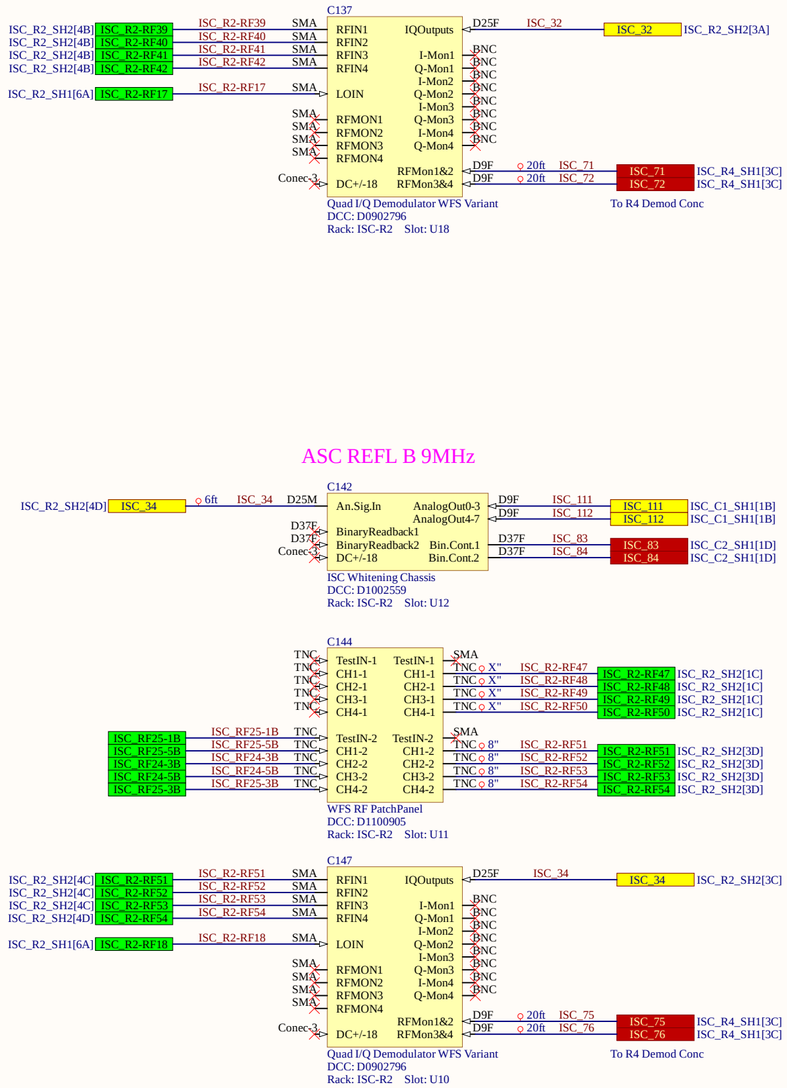




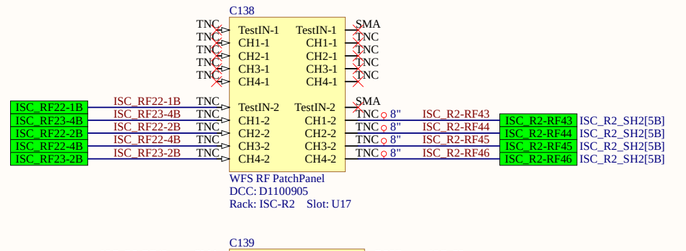
ASC REFL A 9MHz

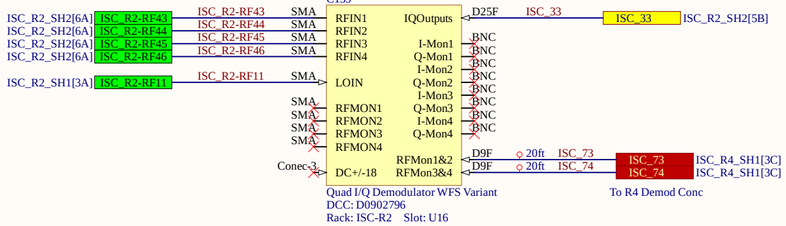


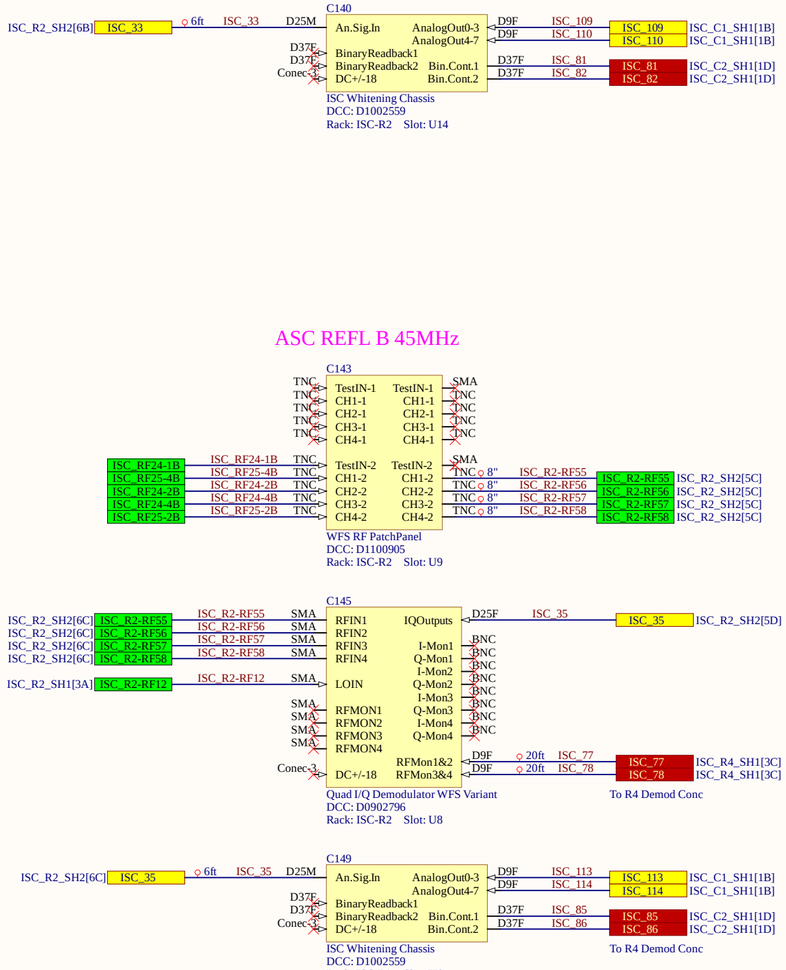




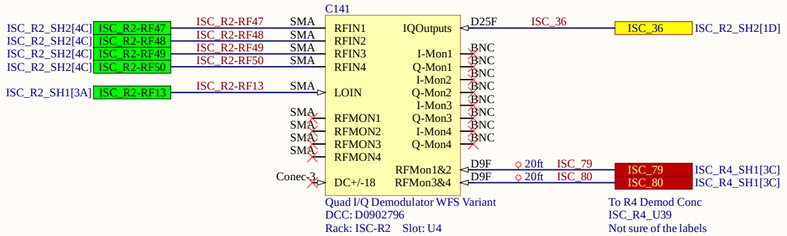
ASC REFL A 45MHz

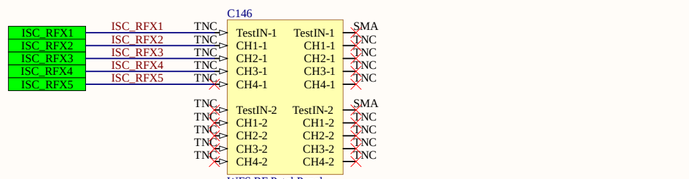


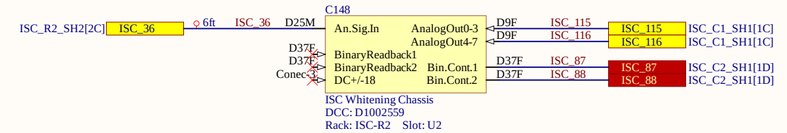




ASC POP A 45MHz







ASC REFL B 9MHz

ASC REFL B 45MHz

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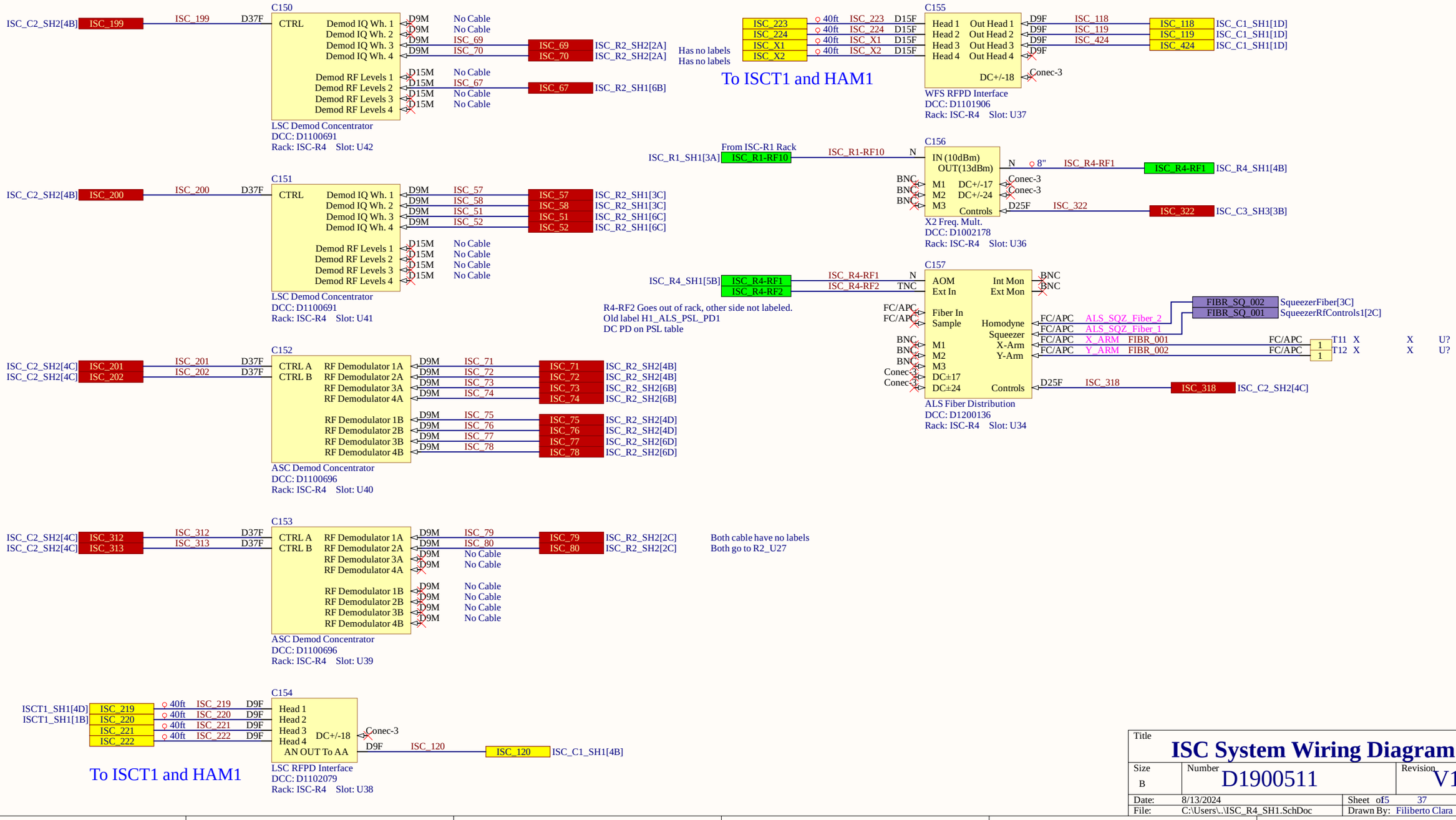
ISC-R4 Rack



Title	**ISC System Wiring Diagram**
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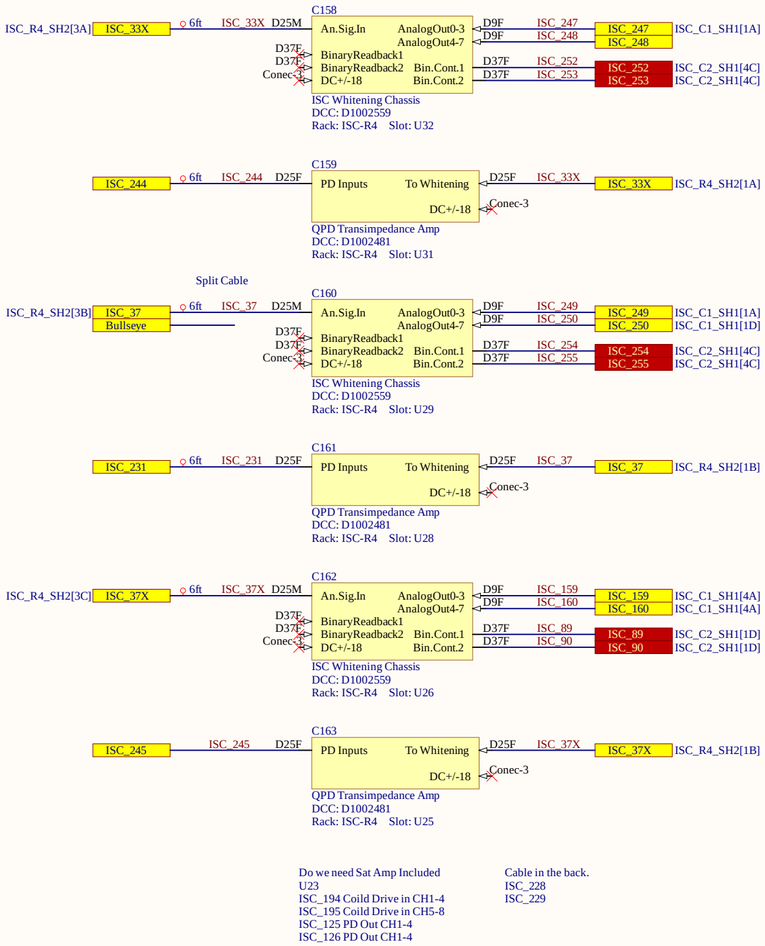
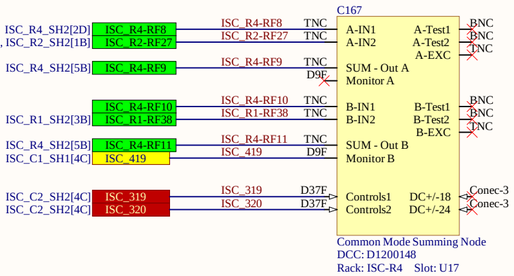
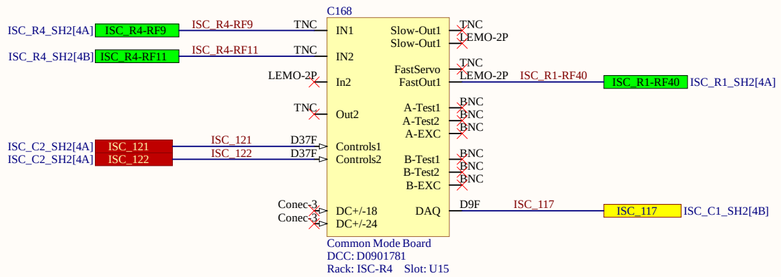
ISC-R4 Rack

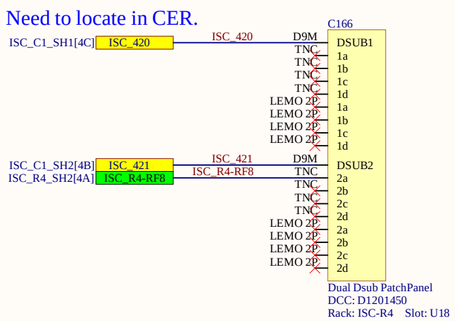




Otherside not labeled. RED
Otherside not labeled. Green
Otherside not labeled. R4 ISC1
Otherside not labeled. R4 ISC2

Otherside not labeled. Old label H1_ALS_PSL_PD1





Title	**ISC System Wiring Diagram**		
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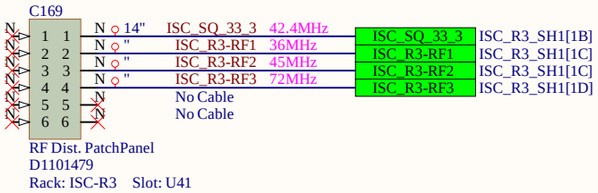
File: C:\Users\..\ISC_R4_SH2.SchDoc		Drawn By: Filiberto Clara	

ISC-R3 Rack

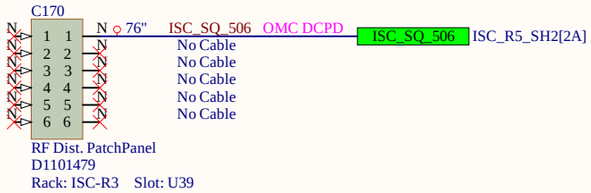
Need to Relabel ISC_R3-RF4

RF Patch Panel 15

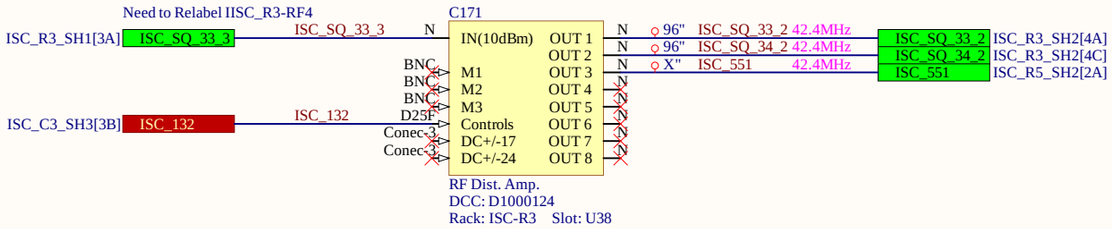


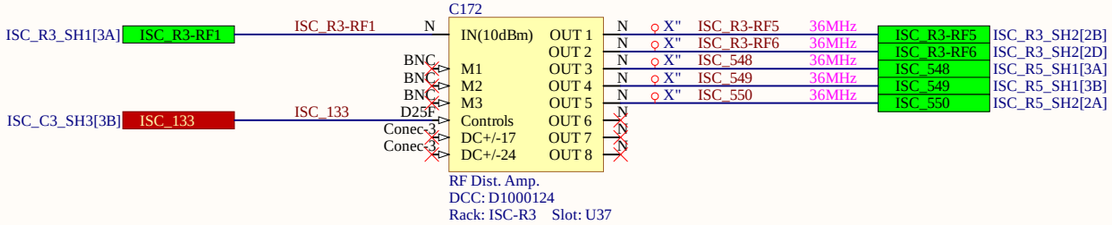
Goes to ISC-C4

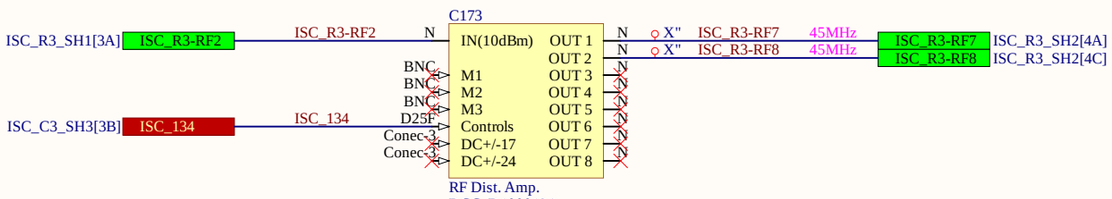
RF Patch Panel 16

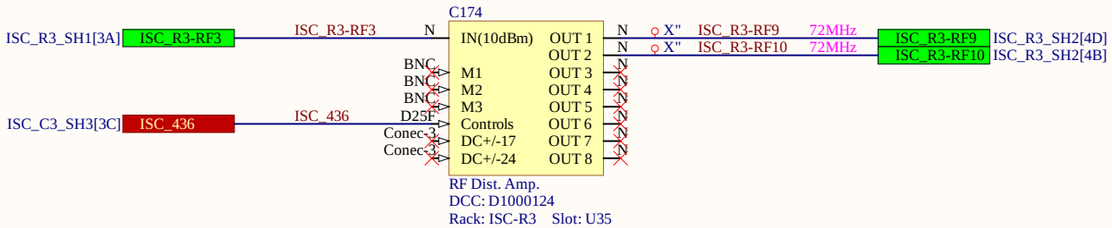


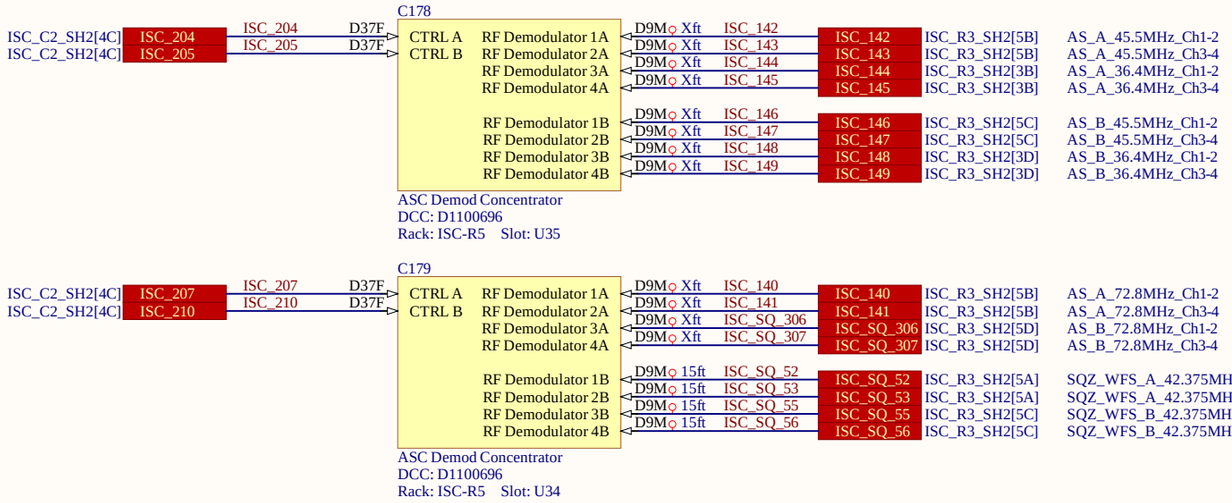
Goes to SQZ-R1/ISC-C4











Title: **ISC System Wiring Diagram**		
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File: C:\Users\..\ISC_R3_SH1.SchDoc		Drawn By: Filiberto Clara

ISC-R3 Rack

AS_A WFS >45MHz

C182 — WFS RF PatchPanel — DCC: D1100905 — Rack: ISC-R3 Slot: U30

HAM6_SH1[4B]	ISC_R26-B/1	25ft	ISC_R26-B/1	TestIN-1	TestIN-1	8"	ISC_R3-RF15
HAM6_SH1[4B]	ISC_R27-B/4	25ft	ISC_R27-B/4	CH1-1	CH1-1	8"	ISC_R3-RF16
HAM6_SH1[4B]	ISC_R26-B/2	25ft	ISC_R26-B/2	CH1-2	CH1-2	8"	ISC_R3-RF17
HAM6_SH1[4B]	ISC_R26-B/4	25ft	ISC_R26-B/4	CH2-1	CH2-1	8"	ISC_R3-RF18
HAM6_SH1[4B]	ISC_R27-B/2	25ft	ISC_R27-B/2	CH2-2	CH2-2		
				CH3-1	CH3-1		
				CH3-2	CH3-2		
				CH4-1	CH4-1		
				CH4-2	CH4-2		
				TestIN-2	TestIN-2		

AS_A WFS RF multiplexer

C183 — WFS Quadplexer — DCC: D1600002 — Rack: ISC-R3 Slot: U29

45.5 IN Ch1	42.375 Out Ch1	7ft	ISC_SQ_44_1
45.5 IN Ch2	42.375 Out Ch2	7ft	ISC_SQ_44_2
45.5 IN Ch3	42.375 Out Ch3	7ft	ISC_SQ_44_3
45.5 IN Ch4	42.375 Out Ch4	7ft	ISC_SQ_44_4
	45.5 Out Ch1	8"	ISC_R3-RF19
	45.5 Out Ch2	8"	ISC_R3-RF20
	45.5 Out Ch3	8"	ISC_R3-RF21
	45.5 Out Ch4	8"	ISC_R3-RF22
18.2 Out Ch1	91 Out Ch1	X"	ISC_R3-RF23
18.2 Out Ch2	91 Out Ch2	X"	ISC_R3-RF24
18.2 Out Ch3	91 Out Ch3	X"	ISC_R3-RF25
18.2 Out Ch4	91 Out Ch4	X"	ISC_R3-RF26

AS_A WFS 42MHz

C180 — Quad I/Q Demodulator WFS Variant — DCC: D0902796 — Rack: ISC-R3 Slot: U5

ISC_SQ_44_1		RFIN1	IQOutputs		
ISC_SQ_44_2		RFIN2			
ISC_SQ_44_3		RFIN3	I-Mon1		
ISC_SQ_44_4		RFIN4	Q-Mon1		
ISC_R3_SH1[3B]	ISC_SQ_33_2		I-Mon2		
ISC_SQ_33_2		LOIN	Q-Mon2		
			I-Mon3		
		RFMON1	Q-Mon3		
		RFMON2	I-Mon4		
		RFMON3	Q-Mon4		
		RFMON4			
			RFMon1&2	D9F	ISC_SQ_52
		DC+/-18	RFMon3&4	D9F	ISC_SQ_53

C181 — ISC Whitening Chassis — DCC: D1002559 — Rack: ISC-R3 Slot: U7

D25F	5ft	ISC_SQ_51	An.Sig.In	AnalogOut0-3	D9F ISC_SQ_57
D25M				AnalogOut4-7	D9F ISC_SQ_58
			BinaryReadback1		
			BinaryReadback2	Bin.Cont.1	ISC_SQ_59
			DC+/-18	Bin.Cont.2	ISC_SQ_60

ISC_SQ_57	ISC_C1_SH1[1B]	ASC_ADC1_5	
ISC_SQ_58	ISC_C1_SH1[1B]	ASC_ADC1_6	
ISC_SQ_59	ISC_C2_SH1[1B]		
ISC_SQ_60	ISC_C2_SH1[1B]		
ISC_SQ_52	ISC_R3_SH1[5C]	SQZ_WFS_A_42.375MHz_Ch1-2	
ISC_SQ_53	ISC_R3_SH1[5C]	SQZ_WFS_A_42.375MHz_Ch3-4	

AS_A WFS 45MHz

C184 — Quad I/Q Demodulator WFS Variant — DCC: D0902796 — Rack: ISC-R3 Slot: U28

ISC_R3-RF19		RFIN1	IQOutputs		
ISC_R3-RF20		RFIN2			
ISC_R3-RF21		RFIN3	I-Mon1		
ISC_R3-RF22		RFIN4	Q-Mon1		
ISC_R3_SH1[3C]	ISC_R3-RF7		I-Mon2		
ISC_R3-RF7		LOIN	Q-Mon2		
			I-Mon3		
		RFMON1	Q-Mon3		
		RFMON2	I-Mon4		
		RFMON3	Q-Mon4		
		RFMON4			
			RFMon1&2	D9F	ISC_142
		DC+/-18	RFMon3&4	D9F	ISC_143

C191 — ISC Whitening Chassis — DCC: D1002559 — Rack: ISC-R3 Slot: U26

D25F	5ft	ISC_41	An.Sig.In	AnalogOut0-3	D9F ISC_166
D25M				AnalogOut4-7	D9F ISC_167
			BinaryReadback1		
			BinaryReadback2	Bin.Cont.1	ISC_97
			DC+/-18	Bin.Cont.2	ISC_98

ISC_142	ISC_R3_SH1[5C]	AS_A_45.5MHz_Ch1-2	
ISC_143	ISC_R3_SH1[5C]	AS_A_45.5MHz_Ch3-4	
ISC_166	ISC_C1_SH1[1C]		
ISC_167	ISC_C1_SH1[1C]		
ISC_97	ISC_C2_SH1[4B]		
ISC_98	ISC_C2_SH1[4B]		

AS_A WFS 36MHz

C192 — WFS RF PatchPanel — DCC: D1100905 — Rack: ISC-R3 Slot: U32

HAM6_SH1[4B]	ISC_R27-B/1	25ft	ISC_R27-B/1	TestIN-1	TestIN-1	8"	ISC_R3-RF11
HAM6_SH1[4B]	ISC_R27-B/5	25ft	ISC_R27-B/5	CH1-1	CH1-1	8"	ISC_R3-RF12
HAM6_SH1[4B]	ISC_R26-B/3	25ft	ISC_R26-B/3	CH1-2	CH1-2	8"	ISC_R3-RF13
HAM6_SH1[4B]	ISC_R26-B/5	25ft	ISC_R26-B/5	CH2-1	CH2-1	8"	ISC_R3-RF14
HAM6_SH1[4B]	ISC_R27-B/3	25ft	ISC_R27-B/3	CH2-2	CH2-2		
				CH3-1	CH3-1		
				CH3-2	CH3-2		
				CH4-1	CH4-1		
				CH4-2	CH4-2		
				TestIN-2	TestIN-2		

C195 — Quad I/Q Demodulator WFS Variant — DCC: D0902796 — Rack: ISC-R3 Slot: U31

ISC_R3-RF5		RFIN1	IQOutputs	D25F	5ft ISC_42
		RFIN2			
		RFIN3	I-Mon1		
		RFIN4	Q-Mon1		
			I-Mon2		
		LOIN	Q-Mon2		
			I-Mon3		
		RFMON1	Q-Mon3		
		RFMON2	I-Mon4		
		RFMON3	Q-Mon4		
		RFMON4			
			RFMon1&2	D9F	ISC_144
		DC+/-18	RFMon3&4	D9F	ISC_145

ISC_R3_SH1[3C] ISC_R3-RF5

ISC_144	ISC_R3_SH1[5C]	AS_A_36.4MHz_Ch1-2	
ISC_145	ISC_R3_SH1[5C]	AS_A_36.4MHz_Ch3-4	

AS_A WFS 72MHz

C193 — Quad I/Q Demodulator WFS Variant — DCC: D0902796 — Rack: ISC-R3 Slot: U24

ISC_R3-RF23		RFIN1	IQOutputs	D25F	ISC_40
ISC_R3-RF24		RFIN2			
ISC_R3-RF25		RFIN3	I-Mon1		
ISC_R3-RF26		RFIN4	Q-Mon1		
ISC_R3_SH1[3D]	ISC_R3-RF10		I-Mon2		
ISC_R3-RF10		LOIN	Q-Mon2		
			I-Mon3		
		RFMON1	Q-Mon3		
		RFMON2	I-Mon4		
		RFMON3	Q-Mon4		
		RFMON4			
			RFMon1&2	D9F	ISC_140
		DC+/-18	RFMon3&4	D9F	ISC_141

C194 — ISC Whitening Chassis — DCC: D1002559 — Rack: ISC-R3 Slot: U22

D25M			An.Sig.In	AnalogOut0-3	D9F ISC_164
				AnalogOut4-7	D9F ISC_165
			BinaryReadback1		
			BinaryReadback2	Bin.Cont.1	ISC_95
			DC+/-18	Bin.Cont.2	ISC_96

ISC_140	ISC_R3_SH1[5C]	AS_A_91.0MHz_Ch1-2	
ISC_141	ISC_R3_SH1[5C]	AS_A_91.0MHz_Ch3-4	
ISC_164	ISC_C1_SH1[1C]		
ISC_165	ISC_C1_SH1[1C]		
ISC_95	ISC_C2_SH1[4B]		
ISC_96	ISC_C2_SH1[4B]		

C196 — ISC Whitening Chassis — DCC: D1002559 — Rack: ISC-R3 Slot: U33

ISC_42	D25M		An.Sig.In	AnalogOut0-3	D9F ISC_168
				AnalogOut4-7	D9F ISC_169
			BinaryReadback1		
			BinaryReadback2	Bin.Cont.1	ISC_99
			DC+/-18	Bin.Cont.2	ISC_100

ISC_168	ISC_C1_SH1[1C]		
ISC_169	ISC_C1_SH1[1C]		
ISC_99	ISC_C2_SH1[4B]		
ISC_100	ISC_C2_SH1[4B]		

LO_A WFS 45MHz

C198 — WFS RF PatchPanel — DCC: D1100905 — Rack: ISC-R3 Slot: U6

HAM6_SH2[4B]	ISC_RF40-B/1	V?	ISC_RF40-B/1	TestIN-1	TestIN-1		
HAM6_SH2[4B]	ISC_RF41-B/4	V?	ISC_RF41-B/4	CH1-1	CH1-1		
HAM6_SH2[4B]	ISC_RF40-B/2	V?	ISC_RF40-B/2	CH1-2	CH1-2		
HAM6_SH2[4B]	ISC_RF40-B/4	V?	ISC_RF40-B/4	CH2-1	CH3-1		
HAM6_SH2[4B]	ISC_RF41-B/2	V?	ISC_RF41-B/2	CH2-2	CH4-1		
				CH3-1	CH2-2		
				CH3-2	CH3-2		
				CH4-1	CH4-2		
				CH4-2	CH4-2		
				TestIN-2	TestIN-2		
HAM6_SH2[4C]	ISC_RF42-B/1	V?	ISC_RF42-B/1	TestIN-2	TestIN-2		
HAM6_SH2[4C]	ISC_RF43-B/4	V?	ISC_RF43-B/4	CH1-2	CH1-2		
HAM6_SH2[4C]	ISC_RF42-B/2	V?	ISC_RF42-B/2	CH2-2	CH3-2		
HAM6_SH2[4C]	ISC_RF42-B/4	V?	ISC_RF42-B/4	CH3-2	CH3-2		
HAM6_SH2[4C]	ISC_RF43-B/2	V?	ISC_RF43-B/2	CH4-2	CH4-2		

bottom top

LO_B WFS 45MHz

AS_B WFS >45MHz

C187 — WFS RF PatchPanel — DCC: D1100905 — Rack: ISC-R3 Slot: U17

HAM6_SH1[4C]	ISC_RF28-B/1	25ft	ISC_RF28-B/1	TestIN-1	TestIN-1	8"	ISC_R3-RF31
HAM6_SH1[4C]	ISC_RF29-B/4	25ft	ISC_RF29-B/4	CH1-1	CH1-1	8"	ISC_R3-RF32
HAM6_SH1[4C]	ISC_RF28-B/2	25ft	ISC_RF28-B/2	CH1-2	CH2-1	8"	ISC_R3-RF33
HAM6_SH1[4C]	ISC_RF28-B/4	25ft	ISC_RF28-B/4	CH2-1	CH3-1	8"	ISC_R3-RF34
HAM6_SH1[4C]	ISC_RF29-B/2	25ft	ISC_RF29-B/2	CH2-2	CH3-2		
				CH3-1	CH4-1		
				CH3-2	CH4-2		
				CH4-1			
				CH4-2			
				TestIN-2	TestIN-2		

AS_B WFS RF multiplexer

C188 — WFS Quadplexer — DCC: D1600002 — Rack: ISC-R3 Slot: U16

45.5 IN Ch1	42.375 Out Ch1	5ft	ISC_SQ_45_1
45.5 IN Ch2	42.375 Out Ch2	5ft	ISC_SQ_45_2
45.5 IN Ch3	42.375 Out Ch3	5ft	ISC_SQ_45_3
45.5 IN Ch4	42.375 Out Ch4	5ft	ISC_SQ_45_4
	45.5 Out Ch1	8"	ISC_R3-RF35
	45.5 Out Ch2	8"	ISC_R3-RF36
	45.5 Out Ch3	8"	ISC_R3-RF37
	45.5 Out Ch4	8"	ISC_R3-RF38
18.2 Out Ch1	91 Out Ch1	X"	ISC_R3-RF39
18.2 Out Ch2	91 Out Ch2	X"	ISC_R3-RF40
18.2 Out Ch3	91 Out Ch3	X"	ISC_R3-RF41
18.2 Out Ch4	91 Out Ch4	X"	ISC_R3-RF42

AS_B WFS 42MHz

C199 — Quad I/Q Demodulator WFS Variant — DCC: D0902796 — Rack: ISC-R3 Slot: U4

ISC_SQ_45_1		RFIN1	IQOutputs		
ISC_SQ_45_2		RFIN2			
ISC_SQ_45_3		RFIN3	I-Mon1		
ISC_SQ_45_4		RFIN4	Q-Mon1		
ISC_R3_SH1[3B]	ISC_SQ_34_2		I-Mon2		
ISC_SQ_34_2		LOIN	Q-Mon2		
			I-Mon3		
		RFMON1	Q-Mon3		
		RFMON2	I-Mon4		
		RFMON3	Q-Mon4		
		RFMON4			
			RFMon1&2	D9F	ISC_SQ_55
		DC+/-18	RFMon3&4	D9F	ISC_SQ_56

C205 — ISC Whitening Chassis — DCC: D1002559 — Rack: ISC-R3 Slot: U2

D25F	5ft	ISC_SQ_54	An.Sig.In	AnalogOut0-3	D9F ISC_SQ_330
D25M				AnalogOut4-7	D9F ISC_SQ_331
			BinaryReadback1		
			BinaryReadback2	Bin.Cont.1	ISC_SQ_332
			DC+/-18	Bin.Cont.2	ISC_SQ_333

ISC_SQ_330	ISC_C1_SH1[1B]		
ISC_SQ_331	ISC_C1_SH1[1B]		
ISC_SQ_332	ISC_C2_SH1[1B]		
ISC_SQ_333	ISC_C2_SH1[1B]		
ISC_SQ_55	ISC_R3_SH1[5C]	SQZ_WFS_B_42.375MHz_Ch1-2	
ISC_SQ_56	ISC_R3_SH1[5C]	SQZ_WFS_B_42.375MHz_Ch3-4	

AS_B WFS 45MHz

C189 — Quad I/Q Demodulator WFS Variant — DCC: D0902796 — Rack: ISC-R3 Slot: U15

ISC_R3-RF35		RFIN1	IQOutputs		
ISC_R3-RF36		RFIN2			
ISC_R3-RF37		RFIN3	I-Mon1		
ISC_R3-RF38		RFIN4	Q-Mon1		
ISC_R3_SH1[3C]	ISC_R3-RF8		I-Mon2		
ISC_R3-RF8		LOIN	Q-Mon2		
			I-Mon3		
		RFMON1	Q-Mon3		
		RFMON2	I-Mon4		
		RFMON3	Q-Mon4		
		RFMON4			
			RFMon1&2	D9F	ISC_146
		DC+/-18	RFMon3&4	D9F	ISC_147

C190 — ISC Whitening Chassis — DCC: D1002559 — Rack: ISC-R3 Slot: U13

D25F	5ft	ISC_43	An.Sig.In	AnalogOut0-3	D9F ISC_170
D25M				AnalogOut4-7	D9F ISC_171
			BinaryReadback1		
			BinaryReadback2	Bin.Cont.1	ISC_101
			DC+/-18	Bin.Cont.2	ISC_102

ISC_146	ISC_R3_SH1[5C]	AS_B_45.5MHz_Ch1-2	
ISC_147	ISC_R3_SH1[5C]	AS_B_45.5MHz_Ch3-4	
ISC_170	ISC_C1_SH1[1C]		
ISC_171	ISC_C1_SH1[1C]		
ISC_101	ISC_C2_SH1[4B]		
ISC_102	ISC_C2_SH1[4B]		

AS_B WFS 36MHz

C185 — WFS RF PatchPanel — DCC: D1100905 — Rack: ISC-R3 Slot: U19

HAM6_SH1[4C]	ISC_RF29-B/4	25ft	ISC_RF29-B/1	TestIN-1	TestIN-1	8"	ISC_R3-RF27
HAM6_SH1[4C]	ISC_RF29-B/5	25ft	ISC_RF29-B/5	CH1-1	CH1-1	8"	ISC_R3-RF28
HAM6_SH1[4C]	ISC_RF28-B/3	25ft	ISC_RF28-B/3	CH1-2	CH2-1	8"	ISC_R3-RF29
HAM6_SH1[4C]	ISC_RF28-B/5	25ft	ISC_RF28-B/5	CH2-1	CH3-1	8"	ISC_R3-RF30
HAM6_SH1[4C]	ISC_RF29-B/3	25ft	ISC_RF29-B/3	CH2-2	CH3-2		
				CH3-1	CH4-1		
				CH3-2	CH4-2		
				CH4-1			
				CH4-2			
				TestIN-2	TestIN-2		

C186 — Quad I/Q Demodulator WFS Variant — DCC: D0902796 — Rack: ISC-R3 Slot: U18

ISC_R3-RF6		RFIN1	IQOutputs	D25F	ISC_44
		RFIN2			
		RFIN3	I-Mon1		
		RFIN4	Q-Mon1		
			I-Mon2		
		LOIN	Q-Mon2		
			I-Mon3		
		RFMON1	Q-Mon3		
		RFMON2	I-Mon4		
		RFMON3	Q-Mon4		
		RFMON4			
			RFMon1&2	D9F	ISC_148
		DC+/-18	RFMon3&4	D9F	ISC_149

ISC_R3_SH1[3C] ISC_R3-RF6

ISC_148	ISC_R3_SH1[5C]	AS_B_36.4MHz_Ch1-2	
ISC_149	ISC_R3_SH1[5C]	AS_B_36.4MHz_Ch3-4	

AS_B WFS 72MHz

C206 — Quad I/Q Demodulator WFS Variant — DCC: D0902796 — Rack: ISC-R3 Slot: U11

ISC_R3-RF39		RFIN1	IQOutputs	D25F	5ft ISC_Analog_1
ISC_R3-RF40		RFIN2			
ISC_R3-RF41		RFIN3	I-Mon1		
ISC_R3-RF42		RFIN4	Q-Mon1		
ISC_R3_SH1[3D]	ISC_R3-RF9		I-Mon2		
ISC_R3-RF9		LOIN	Q-Mon2		
			I-Mon3		
		RFMON1	Q-Mon3		
		RFMON2	I-Mon4		
		RFMON3	Q-Mon4		
		RFMON4			
			RFMon1&2	D9F	ISC_SQ_306
		DC+/-18	RFMon3&4	D9F	ISC_SQ_307

C211 — ISC Whitening Chassis — DCC: D1002559 — Rack: ISC-R3 Slot: U9

D25M			An.Sig.In	AnalogOut0-3	D9F ISC_434
				AnalogOut4-7	D9F ISC_435
			BinaryReadback1		
			BinaryReadback2	Bin.Cont.1	ISC_437
			DC+/-18	Bin.Cont.2	ISC_438

ISC_SQ_306	ISC_R3_SH1[5C]	AS_B_72.8MHz_Ch1-2	
ISC_SQ_307	ISC_R3_SH1[5C]	AS_B_72.8MHz_Ch3-4	
ISC_434	ISC_C1_SH1[1C]		
ISC_435	ISC_C1_SH1[1C]		
ISC_437	ISC_C2_SH1[4C]		
ISC_438	ISC_C2_SH1[4C]		

C212 — ISC Whitening Chassis — DCC: D1002559 — Rack: ISC-R3 Slot: U20

ISC_R3_SH1[3D]	ISC_R3-RF9		An.Sig.In	AnalogOut0-3	D9F ISC_172
				AnalogOut4-7	D9F ISC_173
			BinaryReadback1		
			BinaryReadback2	Bin.Cont.1	ISC_103
			DC+/-18	Bin.Cont.2	ISC_104

ISC_172	ISC_C1_SH1[1C]		
ISC_173	ISC_C1_SH1[1C]		
ISC_103	ISC_C2_SH1[4C]		
ISC_104	ISC_C2_SH1[4C]		

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ISC-R5 Rack (ASC)

LO_A WFS 36MHz

HAM6_SH2[4B] ISC_RF41-B/1 ○ V? ISC_RF41-B/1 TNC
HAM6_SH2[4B] ISC_RF41-B/5 ○ V? ISC_RF41-B/5 TNC
HAM6_SH2[4B] ISC_RF40-B/3 ○ V? ISC_RF40-B/3 TNC
HAM6_SH2[4B] ISC_RF40-B/5 ○ V? ISC_RF40-B/5 TNC
HAM6_SH2[4B] ISC_RF41-B/3 ○ V? ISC_RF41-B/3 TNC

HAM6_SH2[4C] ISC_RF43-B/1 ○ V? ISC_RF43-B/1 TNC
HAM6_SH2[4C] ISC_RF43-B/5 ○ V? ISC_RF43-B/5 TNC
HAM6_SH2[4C] ISC_RF42-B/3 ○ V? ISC_RF42-B/3 TNC
HAM6_SH2[4C] ISC_RF42-B/5 ○ V? ISC_RF42-B/5 TNC
HAM6_SH2[4C] ISC_RF43-B/3 ○ V? ISC_RF43-B/3 TNC

C285
TestIN-1 TestIN-1 SMA
CH1-1 CH1-1 TNC ○ 7"
CH2-1 CH2-1 TNC ○ 7"
CH3-1 CH3-1 TNC ○ 7"
CH4-1 CH4-1 TNC ○ 7"
bottom
TestIN-2 TestIN-2 SMA
CH1-2 CH1-2 TNC ○ 10"
CH2-2 CH2-2 TNC ○ 10"
CH3-2 CH3-2 TNC ○ 10"
CH4-2 CH4-2 TNC ○ 10"
top
WFS RF PatchPanel
DCC: D1100905
Rack: ISC-R5 Slot: U39

ISC_R5-RF1 SMA
ISC_R5-RF2 SMA
ISC_R5-RF3 SMA
ISC_R5-RF4 SMA
ISC_R3_SH1[3C] ISC_548 ISC_548 SMA

C319
RFIN1 IQOutputs D25F ○ 5ft ISC_500
RFIN2
RFIN3 I-Mon1 BNC
RFIN4 Q-Mon1 BNC
I-Mon2 BNC
LOIN Q-Mon2 BNC
I-Mon3 BNC
SMA RFMON1 Q-Mon3 BNC
SMA RFMON2 I-Mon4 BNC
SMA RFMON3 Q-Mon4 BNC
SMA RFMON4
RFMon1&2 D9F ○ 2.5ft ISC_502
Conec-3 RFMon3&4 D9F ○ 2.5ft ISC_503
DC+/-18
Quad I/Q Demodulator WFS Variant
DCC: D0902796
Rack: ISC-R5 Slot: U38

ISC_502 ISC_R5_SH2[4B]
ISC_503 ISC_R5_SH2[4B]

C329
D25M An.Sig.In AnalogOut0-3 D9F ISC_506 ISC_506 ISC_C1_SH1[4A]
AnalogOut4-7 D9F ISC_507 ISC_507 ISC_C1_SH1[4A]
D37F BinaryReadback1
D37F BinaryReadback2 Bin.Cont.1 D37F ISC_510 ISC_510 ISC_R5_SH3[4C]
Conec-3 DC+/-18 Bin.Cont.2 D37F ISC_511 ISC_511 ISC_R5_SH3[4C]
ISC Whitening Chassis
DCC: D1002559
Rack: ISC-R5 Slot: U40

ISC_R5-RF5 SMA
ISC_R5-RF6 SMA
ISC_R5-RF7 SMA
ISC_R5-RF8 SMA
ISC_R3_SH1[3C] ISC_549 ISC_549 SMA

C345
RFIN1 IQOutputs D25F ○ 5ft ISC_501
RFIN2
RFIN3 I-Mon1 BNC
RFIN4 Q-Mon1 BNC
I-Mon2 BNC
LOIN Q-Mon2 BNC
I-Mon3 BNC
SMA RFMON1 Q-Mon3 BNC
SMA RFMON2 I-Mon4 BNC
SMA RFMON3 Q-Mon4 BNC
SMA RFMON4
RFMon1&2 D9F ○ 2.5ft ISC_504
Conec-3 RFMon3&4 D9F ○ 2.5ft ISC_505
DC+/-18
Quad I/Q Demodulator WFS Variant
DCC: D0902796
Rack: ISC-R5 Slot: U37

ISC_504 ISC_R5_SH2[4C]
ISC_505 ISC_R5_SH2[4C]

C355
D25M An.Sig.In AnalogOut0-3 D9F ISC_508 ISC_508 ISC_C1_SH1[4B]
AnalogOut4-7 D9F ISC_509 ISC_509 ISC_C1_SH1[4B]
D37F BinaryReadback1
D37F BinaryReadback2 Bin.Cont.1 D37F ISC_512 ISC_512 ISC_R5_SH3[4C]
Conec-3 DC+/-18 Bin.Cont.2 D37F ISC_513 ISC_513 ISC_R5_SH3[4C]
ISC Whitening Chassis
DCC: D1002559
Rack: ISC-R5 Slot: U35

AS_A HAM6_SH1[4A] ISC_265 ISC_265 D15F
AS_B HAM6_SH1[4A] ISC_266 ISC_266 D15F
LO_A HAM6_SH2[4A] ISC_514 ○ V? ISC_514 D15F
LO_B HAM6_SH2[4A] ISC_515 ○ V? ISC_515 D15F

C201
Head 1 Out Head 1 D9F ISC_130 ISC_130 ISC_C1_SH1[1D] ASC_ADC5_3
Head 2 Out Head 2 D9F ISC_131 ISC_131 ISC_C1_SH1[1D] ASC_ADC5_4
Head 3 Out Head 3 D9F ISC_426 ISC_426 ISC_C1_SH1[4B]
Head 4 Out Head 4 D9F ISC_427 ISC_427 ISC_C1_SH1[4B]
DC+/-18 Conec-3
WFS RFPD Interface
DCC: D1101906
Rack: ISC-R5 Slot: U30

ISC_91 ISC_91 ISC_C2_SH1[4B] Extra cable

ASC_AS_C/LO_C

HAM6_SH1[2C] ISC_233 ○ 25ft ISC_233 D25F

C204
PD Inputs To Whitening D25F ○ 5ft ISC_39
SUM OUT 1 BNC SUM_OUT_1 SUM_OUT_1 ISC_R5_SH3[5A]
SUM OUT 2 BNC
DC+/-18 Conec-3
QPD Transimpedance Amp V2
DCC: D1002481
Rack: ISC-R5 Slot: U14

C360
D25M An.Sig.In AnalogOut0-3 D9F ISC_163 ISC_163 ISC_C1_SH1[4A]
AnalogOut4-7 D9F ISC_SQ_297 ISC_SQ_297 ISC_C1_SH1[4A]
D37F BinaryReadback1
D37F BinaryReadback2 Bin.Cont.1 D37F ISC_555 ISC_555 ISC_R5_SH3[4C]
Conec-3 DC+/-18 Bin.Cont.2 D37F ISC_556 ISC_556 ISC_R5_SH3[4C]
ISC Whitening Chassis
DCC: D1002559
Rack: ISC-R5 Slot: U16

ASC_OMC_A/B

HAM6_SH1[2B] ISC_404 ○ 25ft ISC_404 D25F

ASC-OMC_A/B

C363
PD Inputs To Whitening D25F ○ 5ft ISC_405
DC+/-18 Conec-3
QPD Transimpedance Amp
DCC: D1002481
Rack: ISC-R5 Slot: U21

C368
D25M An.Sig.In AnalogOut0-3 D9F ISC_400 ISC_400 ISC_C1_SH1[4A]
AnalogOut4-7 D9F ISC_401 ISC_401 ISC_C1_SH1[4A]
D37F BinaryReadback1
D37F BinaryReadback2 Bin.Cont.1 D37F ISC_516 ISC_516 ISC_R5_SH3[4D]
Conec-3 DC+/-18 Bin.Cont.2 D37F ISC_517 ISC_517 ISC_R5_SH3[4D]
ISC Whitening Chassis
DCC: D1002559
Rack: ISC-R5 Slot: U23

ASC_OMC_C/D

HAM6_SH1[2B] ISC_232 ○ 25ft ISC_232 D25F

C369
PD Inputs To Whitening D25F ○ 5ft ISC_38
DC+/-18 Conec-3
QPD Transimpedance Amp
DCC: D1002481
Rack: ISC-R5 Slot: U20

C203
D25M An.Sig.In AnalogOut0-3 D9F ISC_161 ISC_161 ISC_C1_SH1[4A]
AnalogOut4-7 D9F ISC_162 ISC_162 ISC_C1_SH1[4A]
D37F BinaryReadback1
D37F BinaryReadback2 Bin.Cont.1 D37F ISC_518 ISC_518 ISC_R5_SH3[4D]
Conec-3 DC+/-18 Bin.Cont.2 D37F ISC_519 ISC_519 ISC_R5_SH3[4D]
ISC Whitening Chassis
DCC: D1002559
Rack: ISC-R5 Slot: U18

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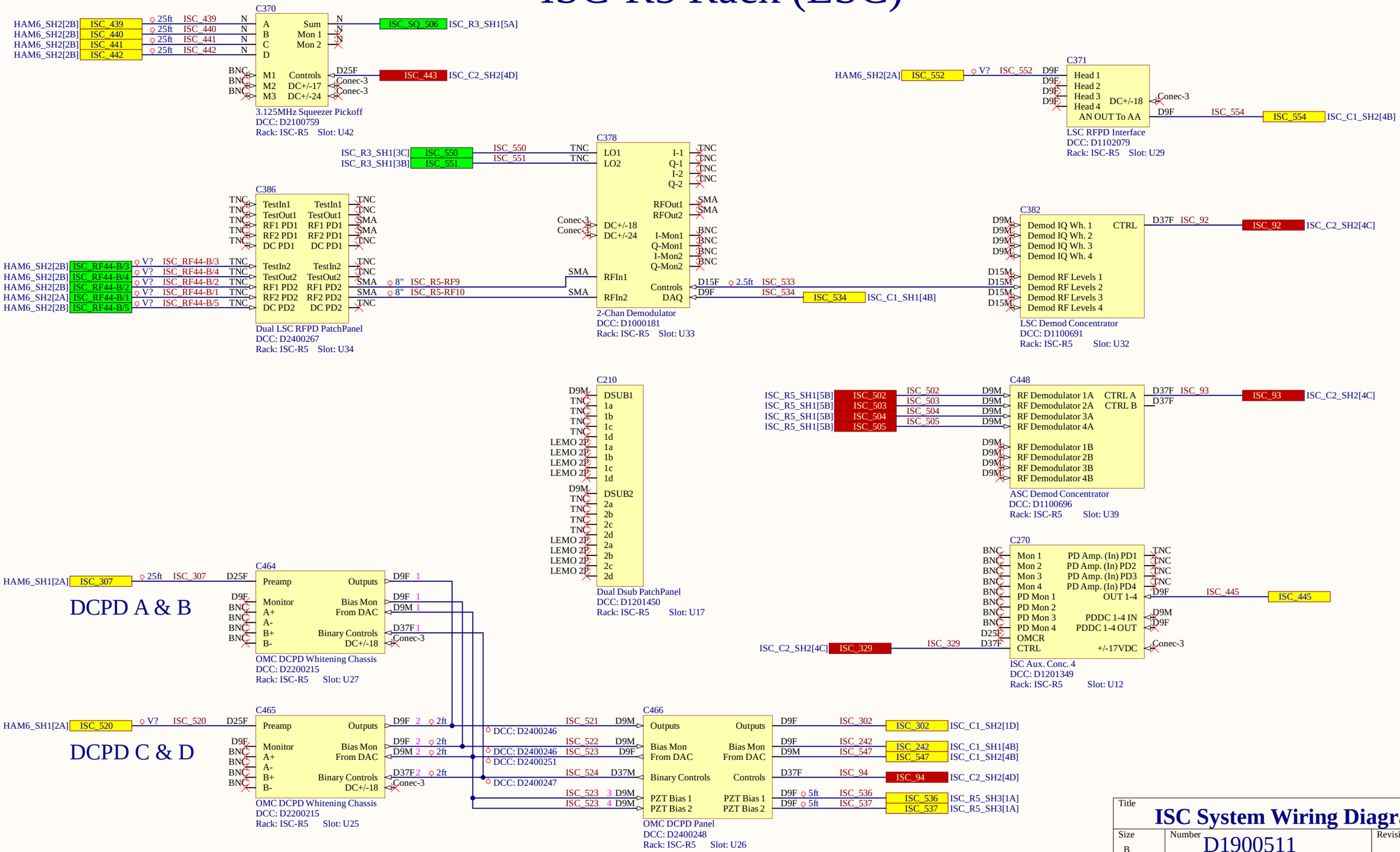
ISC-R5 Rack (LSC)



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ISC-R5 Rack

OMC A

C468
Length HV Mon, Length HV Drive, Length Alt Drive, Bias HV Mon, Bias HV Drive, Bias Alt Drive, LV Mon, LV Drive, LV Alt Drive
HV Power, To OMC, Shutter Trigger, DC+/-18
OMC Piezo Driver
DCC: D1300485-v2
Rack: ISC-R5 Slot: U11

ISC_R5_SH2[4D] ISC_536 — ISC_536
ISC_R5_SH2[4D] ISC_537 — ISC_537

D25F 25ft ISC_409 — ISC_409 — HAM6_SH1[2B]
BNC — HAM6_SH1[2C] ISC_526 — ISC_526 V? — ISC_XB BNC — MIL BNC BNC

Fast Shutter A

C469
To Fast Shutter, Fast Trigger, Blanking Output
HV PWR, Remote Interface, DC+/-18
Fast Shutter Driver
DCC: D1400078
Rack: ISC-R5 Slot: U5

OMC B

C209
Length HV Mon, Length HV Drive, Length Alt Drive, Bias HV Mon, Bias HV Drive, Bias Alt Drive, LV Mon, LV Drive, LV Alt Drive
HV Power, To OMC, Shutter Trigger, DC+/-18
OMC Piezo Driver
DCC: D1300485-v2
Rack: ISC-R5 Slot: U10

D25F V? ISC_525 — ISC_525 — HAM6_SH1[2B]
BNC — HAM6_SH1[2C] ISC_527 — ISC_527 V? — ISC_XE BNC — MIL BNC BNC

Fast Shutter B

C213
To Fast Shutter, Fast Trigger, Blanking Output
HV PWR, Remote Interface, DC+/-18
Fast Shutter Driver
DCC: D1400078
Rack: ISC-R5 Slot: U7

ISC_545 ISC_544 ISC_546 ISC_543 ISC_542 ISC_532 ISC_531 ISC_535 ISC_530 ISC_529

C472
Hi HV Mon, Hi HV Drive, Hi Bias Mon, Hi LV Drive, Hi LV Mon, Lo HV Mon, Lo HV Drive, Lo Bias Mon, Lo LV Drive, Lo LV Mon
Hi Mon, Driver, Bias Mon, Hi LV Mon, Lo LV Mon, Lo Mon, Fast Shutter A, Fast Shutter B, Fast Shutter In
OMC PZT/Fast Shutter Concentrator
DCC: D2400260
Rack: ISC-R5 Slot: U9

D9F ISC_528 — ISC_528 — ISC_C1_SH1[4B]
D9M ISC_406 — ISC_406 — ISC_C1_SH2[4B]
D9F ISC_553 — ISC_553 — ISC_C1_SH2[1C]
TNC ISC_539
TNC ISC_538
D9F ISC_407 — ISC_407 — ISC_C1_SH1[4B]
D25M ISC_540 2.5ft
D25M ISC_541 2.5ft
D25F ISC_423 — ISC_423 — ISC_C2_SH2[4D]

C214
PD 1, Open 1, Close 1, Mon 1, Out 1, Shutter 1
PD 2, Open 2, Close 2, Mon 2, Out 2, Shutter 2
Controls, +24VDC
Shutter Controller
DCC: D1102312
Rack: ISC-R5 Slot: U2

ISC_R5_SH1[3C] SUM_OUT_1 5ft SUM_OUT_1 — TNC
Fast Shutter Trigger — ISC_XF BNC
ISC_XC
ISC_C2_SH2[2C] ISC_323 — ISC_323 — D15F

C207
Analog Input 1–4, Analog Output 1–4, Analog Output 1–4, Controls
Binary Input 1–4, Binary Output 1–4, Binary Output 1–4
Aux. Conc. 1
DCC: D1102065
Rack: ISC-R5 Slot: U13

ISC_Shutter_PZT_Readback_HAM6 X" — X"
ISC_C2_SH2[4C] ISC_327 — ISC_327 — D37F

C215
Controls, Readbacks, Chan 1-4 Outputs, Chan 5-8 Outputs, +24VDC
X1 Y1 X2 Y2 X3 Y3 X4 Y4 X5 Y5 X6 Y6 X7 Y7 X8 Y8
Picomotor Driver
DCC: D1100323
Rack: ISC-R5 Slot: U2

ISC_C2_SH2[4B] ISC_182 — ISC_182 — D25M
ISC_C2_SH2[4B] ISC_183 — ISC_183 — D25F
D25F 20ft ISC_234 — ISC_234 — HAM6_SH1[2C]
Conec-3

C473
1Hi 1Lo 3Hi 3Lo 2Hi 2Lo 4Hi 4Lo, Controls
Whitening Controls Concentrator
DCC: D2400263
Rack: ISC-R5
Slot: U36

ISC_R5_SH1[6A] ISC_510 2.5ft ISC_510 — D37M
ISC_R5_SH1[6A] ISC_511 2.5ft ISC_511 — D37M
ISC_R5_SH1[5C] ISC_555 5ft ISC_555 — D37M
ISC_R5_SH1[6B] ISC_512 1ft ISC_512 — D37M
ISC_R5_SH1[6B] ISC_513 1ft ISC_513 — D37M
ISC_R5_SH1[5C] ISC_556 5ft ISC_556 — D37M
D37F ISC_402 — ISC_402 — ISC_C2_SH1[4C]

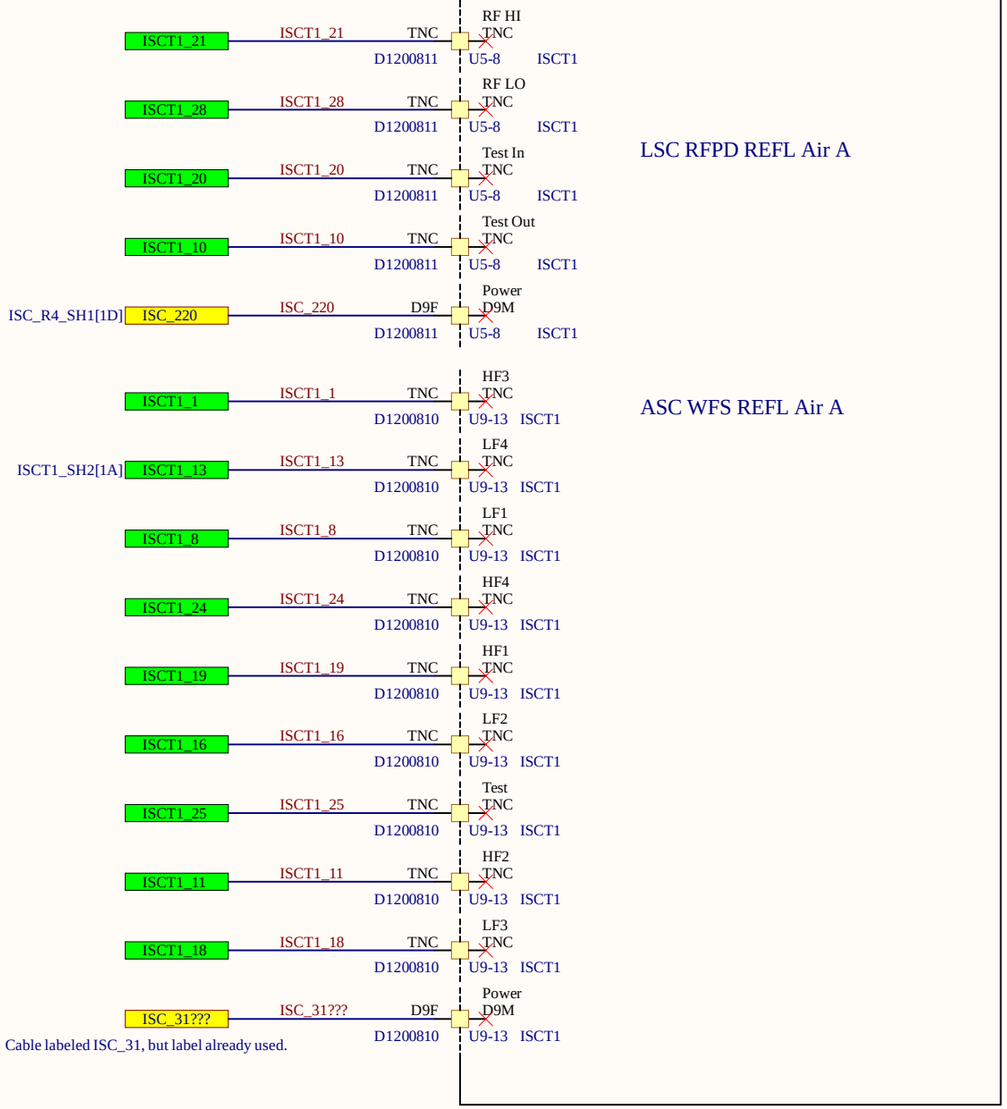
C474
1Hi 1Lo 3Hi 3Lo 2Hi 2Lo 4Hi 4Lo, Controls
Whitening Controls Concentrator
DCC: D2400263
Rack: ISC-R5
Slot: U19

ISC_R5_SH1[5D] ISC_516 2.5ft ISC_516 — D37M
ISC_R5_SH1[5D] ISC_518 1ft ISC_518 — D37M
ISC_R5_SH1[5D] ISC_517 2.5ft ISC_517 — D37M
ISC_R5_SH1[5D] ISC_519 1ft ISC_519 — D37M
D37F ISC_403 — ISC_403 — ISC_C2_SH1[4C]

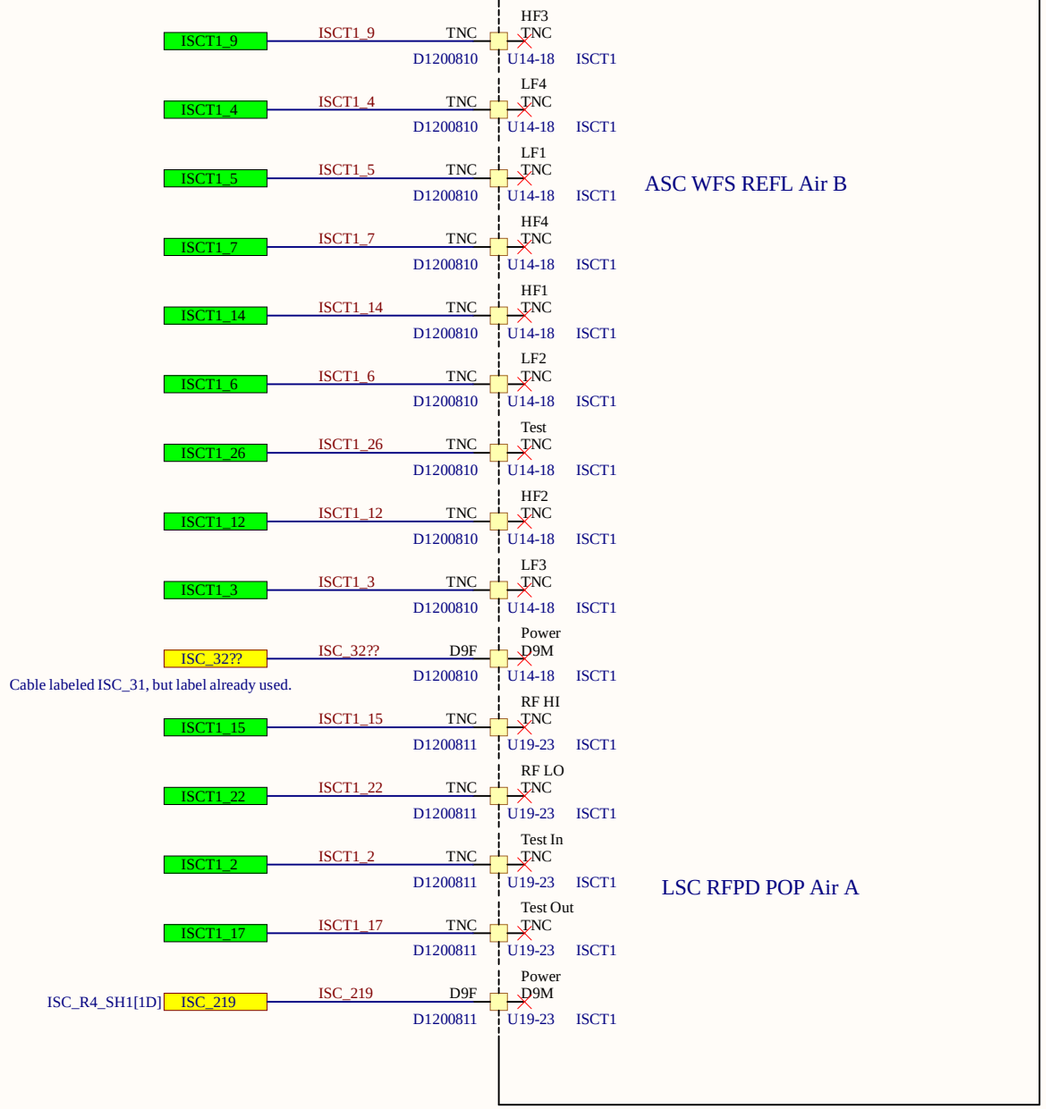
Title	ISC System Wiring Diagram		
Size B	Number D1900511	Revision V10	
Date: 8/13/2024	Sheet 21 of 37		
File: C:\Users\..\ISC_R5_SH3.SchDoc	Drawn By: Filiberto Clara		

ISCT1 - Right Side

Inside Enclosure



Inside Enclosure



Title	**ISC System Wiring Diagram**	
Size: B	Number: D1900511	Revision: V10
Date: 8/13/2024	Sheet 22 of 37	
File: C:\Users\..\ISCT1_SH1.SchDoc	Drawn By: Filiberto Clara	

ISCT1 - Right Side

Inside Enclosure

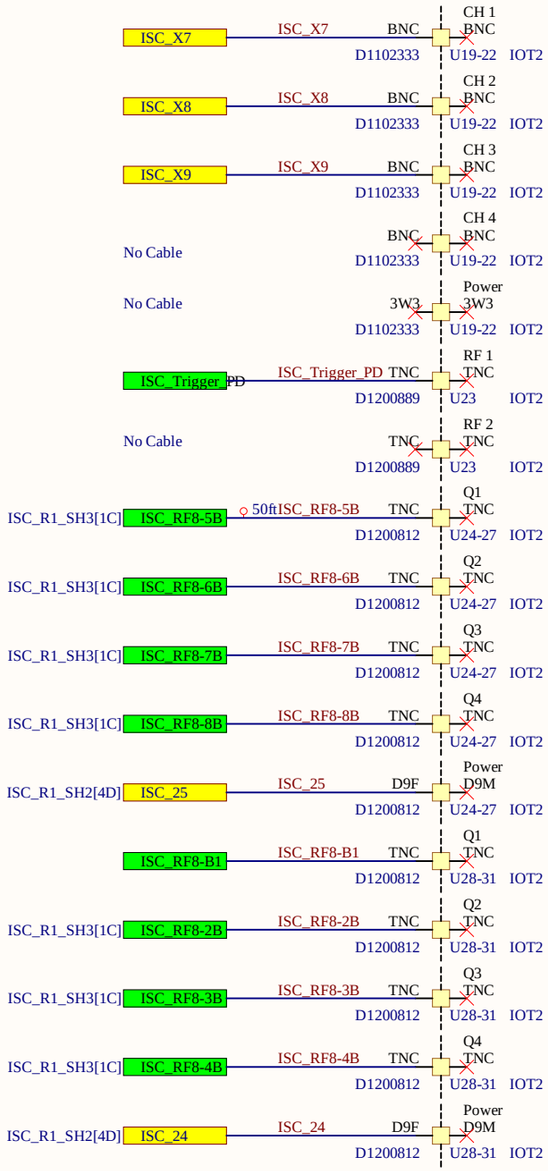
ISCT1_SH1[1B]	ISCT1_13	ISCT1_13	TNC D1200889	RF 1 TNC U23	ISCT1		
	ISCT1_23	ISCT1_23	TNC D1200889	RF 2 TNC U23	ISCT1		
	ISC_259???	ISC_259???	D9F D1101072	Output D9M U24-25	ISCT1		
labeled ISC_259, but label already used.							
±18V from SUS-R1			3W3 D1101072	DC±17 U24-25	ISCT1		
	ISCT1_DB9_1	ISCT1_DB9_1	D9M D1102369	A D9F U26-27	ISCT1		
	ISCT1_DB9_2	ISCT1_DB9_2	D9M D1102369	B D9F U26-27	ISCT1		
ISCT1_SH2[1C]	ISCT1_XX	ISCT1_XX	TNC D1200889	RF 1 TNC U28	ISCT1		
Gray cable, label 29. Need to relabel.							
ISCT1_SH2[1B]	ISCT1_XX	ISCT1_XX	TNC D1200889	RF 2 TNC U28	ISCT1		
Gray cable, label 30 Need to relabel.							
		No Cable	TNC D1201399	1 TNC U29-31	ISCT1		
		No Cable	TNC D1201399	2 TNC U29-31	ISCT1		
	R4_ISCT1_1	R4_ISCT1_1	TNC D1201399	3 TNC U29-31	ISCT1		
	R4_ISCT1_2	R4_ISCT1_2	TNC D1201399	4 TNC U29-31	ISCT1		
		No Cable	TNC D1201399	5 TNC U29-31	ISCT1		
		No Cable	TNC D1201399	6 TNC U29-31	ISCT1		
ISC_C2_SH2[4D]	ISC_331	ISC_331	D15M D1201483	TEC D15F U32	ISCT1		
	ISCT1_DB9_3	ISCT1_DB9_3	D9M D1102369	A D9F U37-38	ISCT1		
	ISCT1_DB9_4	ISCT1_DB9_4	D9M D1102369	B D9F U37-38	ISCT1		

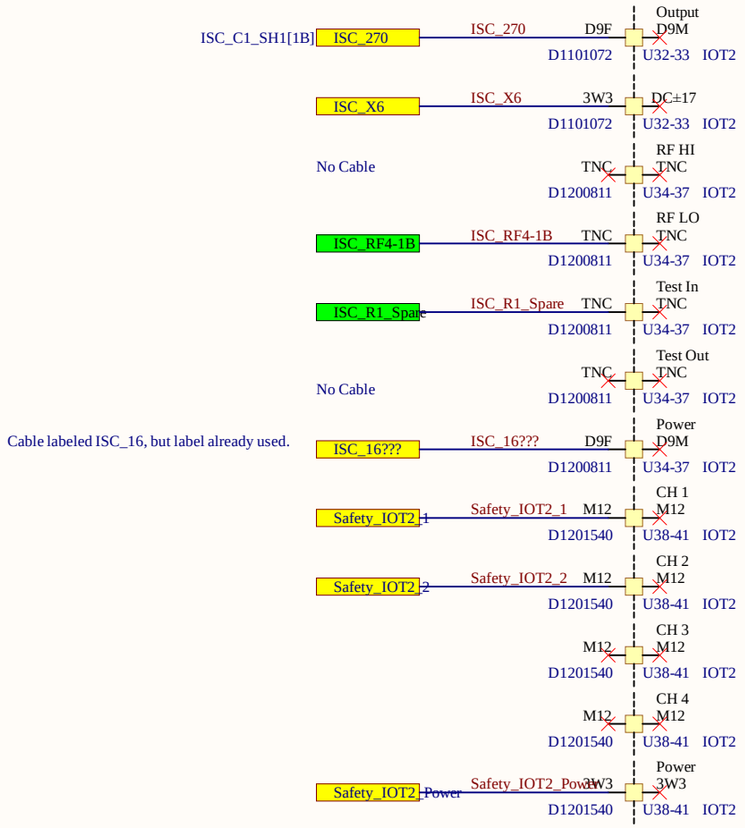
Inside Enclosure

ISCT1_ACC_Y	ISCT1_ACC_Y	BNC D1102333	CH 1 BNC U39-42	ISCT1	
IOT1_Video_Refl	IOT1_Video_Refl	BNC D1102333	CH 2 BNC U39-42	ISCT1	
IOT1_Video_POD	IOT1_Video_POD	BNC D1102333	CH 3 BNC U39-42	ISCT1	
IOT1_Video_Refl_PD	IOT1_Video_Refl_PD	BNC D1102333	CH 4 BNC U39-42	ISCT1	
XX	XX	3W3 D1102333	Power 3W3 U39-42	ISCT1	

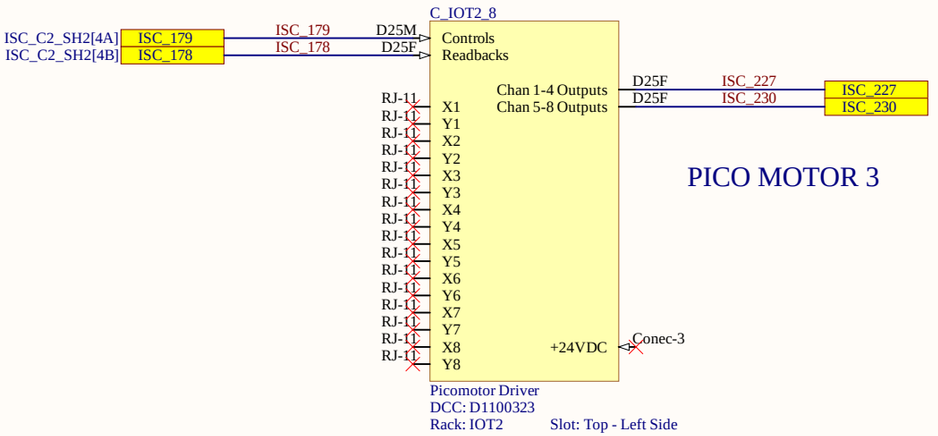
Title	**ISC System Wiring Diagram**		
Size: B	Number: D1900511	Revision: V10	
Date: 8/13/2024	Sheet 23 of 37		
File: C:\Users\..\ISCT1_SH2.SchDoc	Drawn By: Filiberto Clara		

IOT2 - Left Side

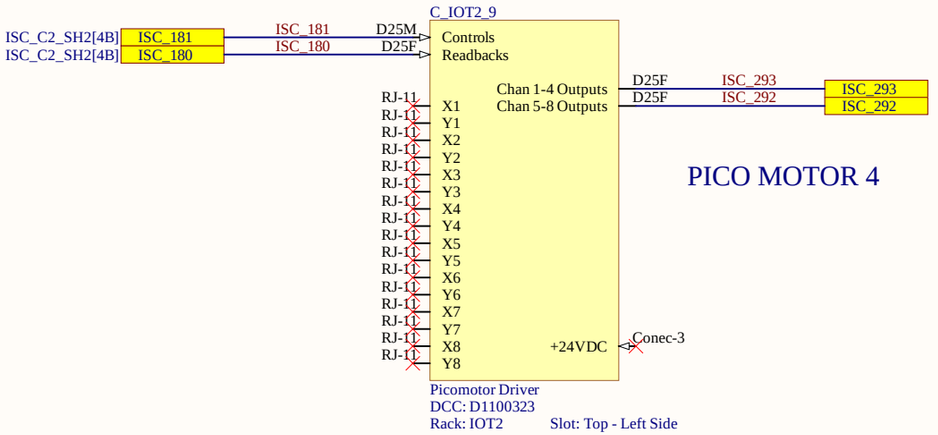




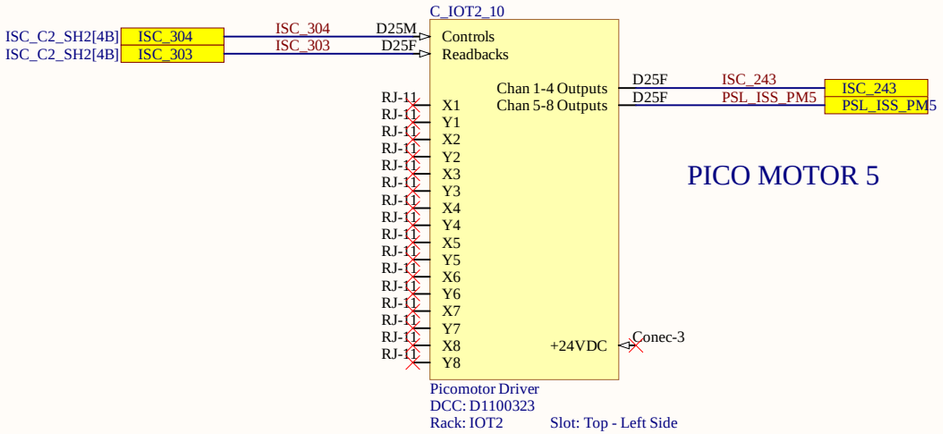
Title	**ISC System Wiring Diagram**	
Size: B	Number: D1900511	Revision: V10
Date: 8/13/2024	Sheet of 24 37	
File: C:\Users\..\IOT2_SH1.SchDoc	Drawn By: Filiberto Clara	



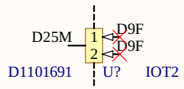
PICO MOTOR 3

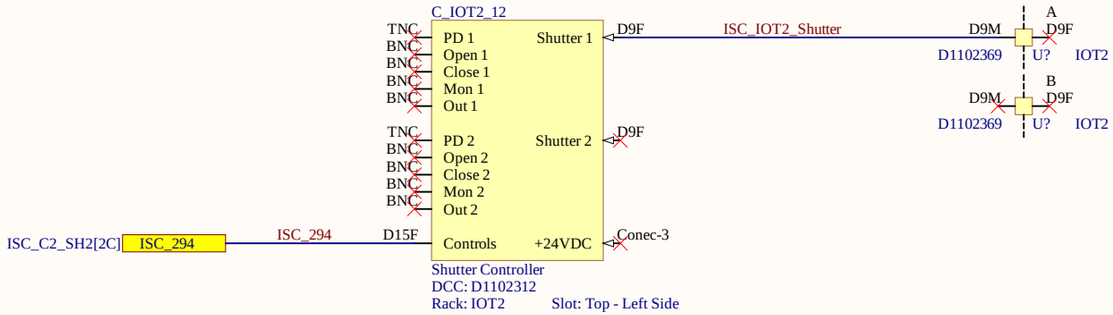


PICO MOTOR 4



PICO MOTOR 5

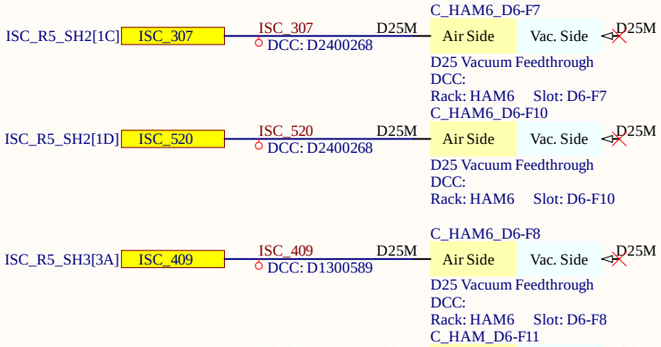




Title	**ISC System Wiring Diagram**		
Size: B	Number: D1900511		Revision: V10
Date: 8/13/2024		Sheet 35 of 37	
File: C:\Users\..\IOT2_SH2.SchDoc		Drawn By: Filiberto Clara	

HAM6 Flange Layout

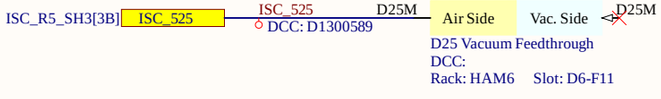
DCPD A/B



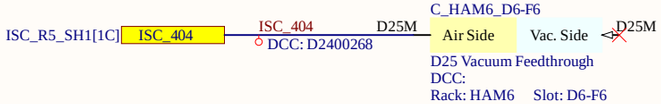
DCPD C/D

OMC A PZTs

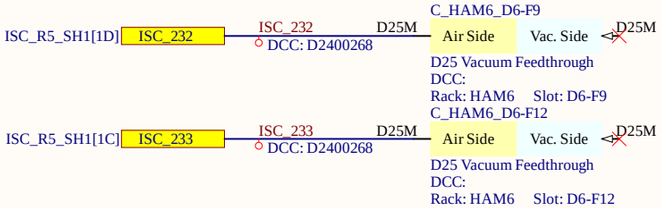
OMC B PZTs



OMC A/B QPD

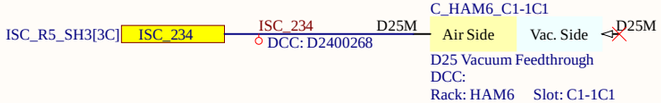


OMC C/D QPD

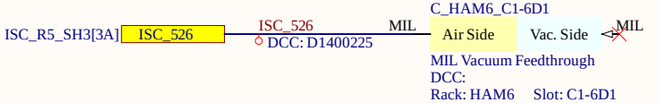


AS_C/LO_C QPD

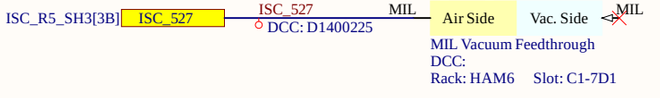
Picomotor

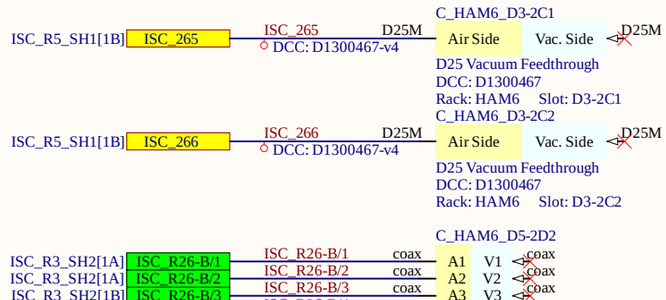


Fast Shutter 1

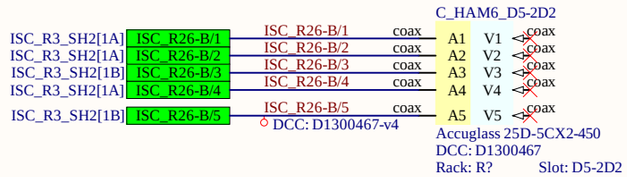


Fast Shutter 2



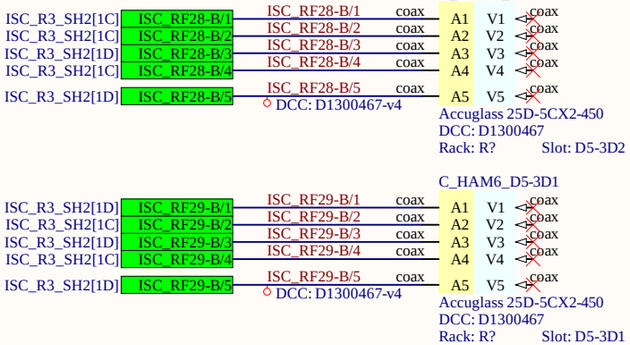


AS_A WFS DC



AS_A WFS 36/45MHz

AS_A WFS 36/45MHz



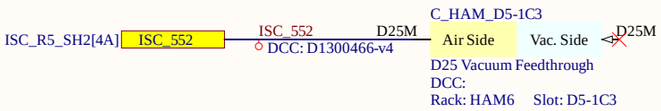
AS_B WFS 36/45MHz

AS_B WFS 36/45MHz

Title	**ISC System Wiring Diagram**	
Size: B	Number: D1900511	Revision: V10
Date: 8/13/2024		Sheet of 26 37
File: C:\Users\..\HAM6_SH1.SchDoc		Drawn By: Filiberto Clara

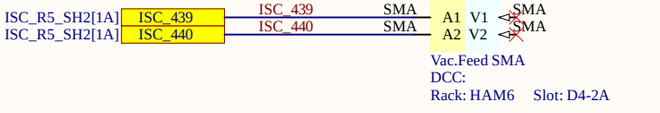
HAM6 Flange Layout

OMC_REFL DC

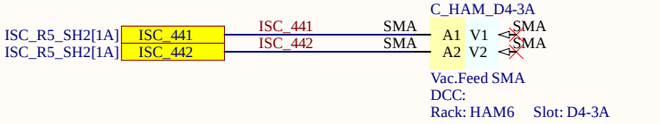


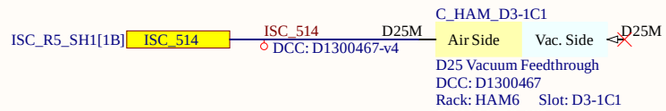
OMC_REFL_A

DCPD 3.1MHz A/B

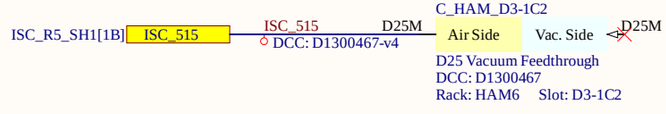


DCPD 3.1MHz C/D

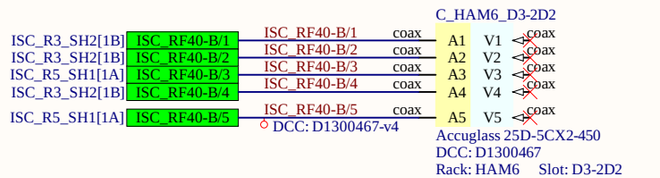




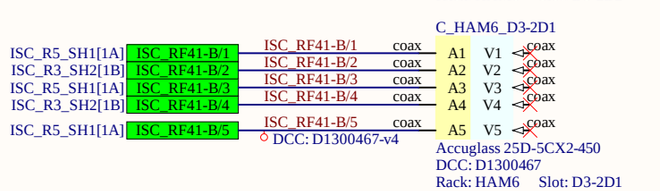
LO_A WFS DC



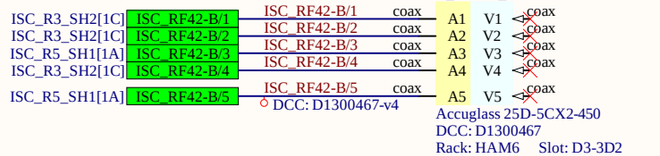
LO_B WFS DC



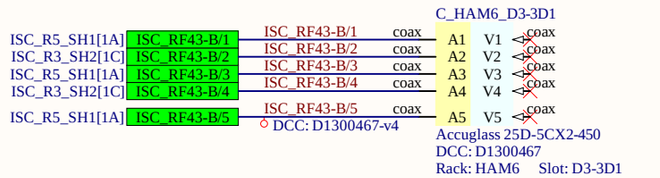
LO_A WFS 36/45MHz



LO_A WFS 36/45MHz

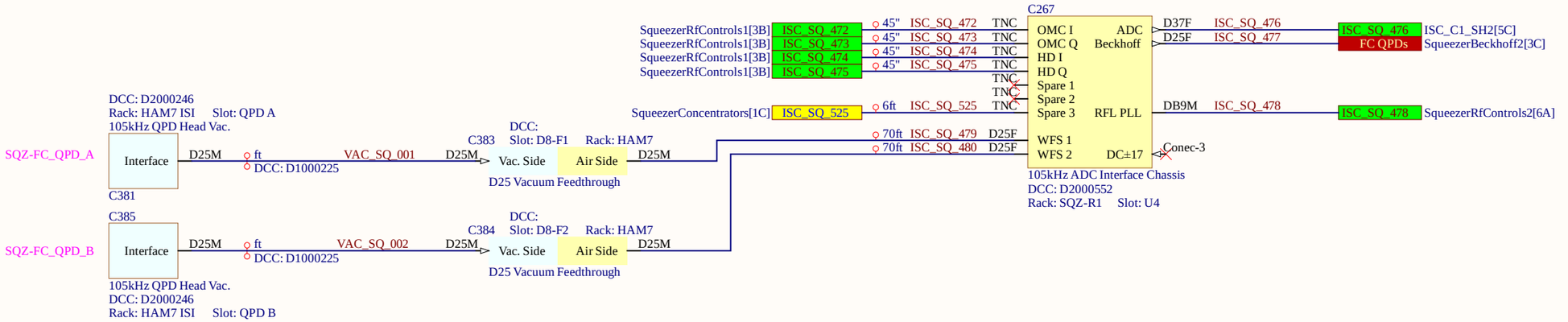


LO_B WFS 36/45MHz



LO_B WFS 36/45MHz

Title	**ISC System Wiring Diagram**	
Size: B	Number: D1900511	Revision: V10
Date: 8/13/2024	Sheet of 27 37	
File: C:\Users\..\HAM6_SH2.SchDoc	Drawn By: Filiberto Clara	



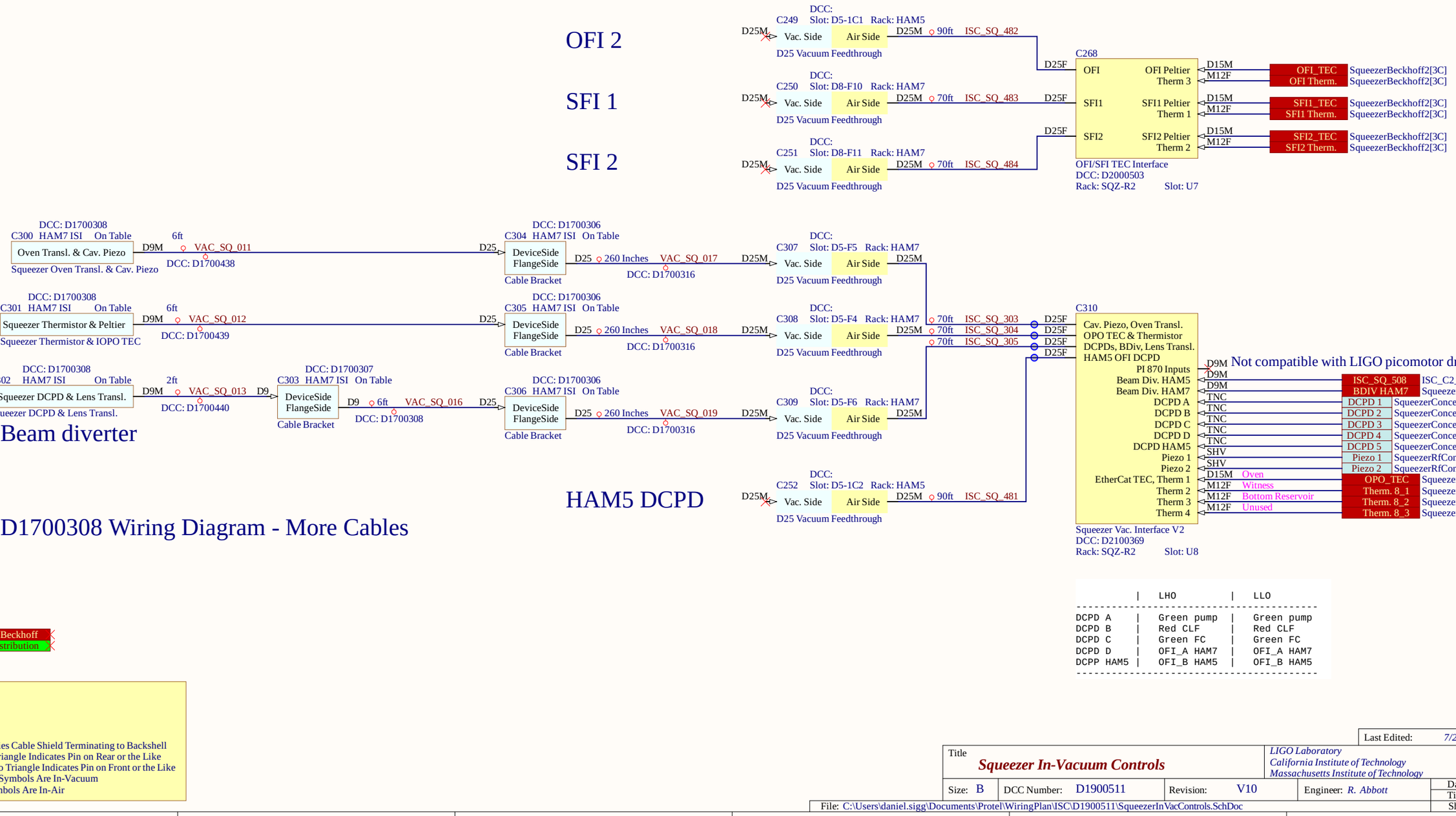
Key

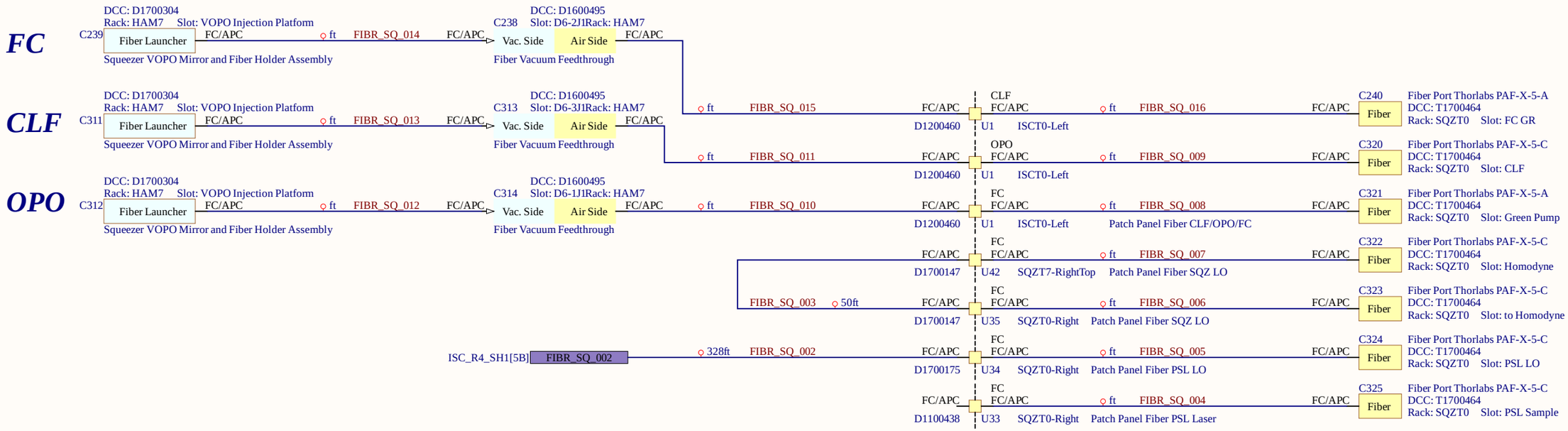
__Ties to Beckhoff

Ties to _RF Distribution

Dot Identifies Cable Shield Terminating to Backshell
Pin With Triangle Indicates Pin on Rear or the Like
Pin With No Triangle Indicates Pin on Front or the Like
Light Blue Symbols Are In-Vacuum
Yellow Symbols Are In-Air

Title	**Squeezer Wavefront Sensing**	
Size: B	Number: D1900511	Revision: V10
Date: 8/13/2024		Sheet of 28 37
File: C:\Users\..\SqueezerWfsWiring.SchDoc		Drawn By: R. Abbott


OFI 2
SFI 1
SFI 2
DCC:
C249 Slot: D5-1C1 Rack: HAM5
D25M Vac. Side Air Side D25M 90ft ISC_SQ_482
D25 Vacuum Feedthrough
DCC:
C250 Slot: D8-F10 Rack: HAM7
D25M Vac. Side Air Side D25M 70ft ISC_SQ_483
D25 Vacuum Feedthrough
DCC:
C251 Slot: D8-F11 Rack: HAM7
D25M Vac. Side Air Side D25M 70ft ISC_SQ_484
D25 Vacuum Feedthrough
D25F
D25F
D25F
C268
OFI OFI Peltier Therm 3
SFI1 SFI1 Peltier Therm 1
SFI2 SFI2 Peltier Therm 2
D15M M12F
OFI1_TEC OFI Therm. SqueezerBeckhoff2[3C]
SFI1_TEC SFI1 Therm. SqueezerBeckhoff2[3C]
SFI2_TEC SFI2 Therm. SqueezerBeckhoff2[3C]
OFI/SFI TEC Interface
DCC: D2000503
Rack: SQZ-R2 Slot: U7
DCC: D1700308
C300 HAM7 ISI On Table
Oven Transl. & Cav. Piezo
D9M 6ft VAC_SQ_011
DCC: D1700438
Squeezer Oven Transl. & Cav. Piezo
DCC: D1700306
C304 HAM7 ISI On Table
DeviceSide FlangeSide
D25 260 Inches VAC_SQ_017
DCC: D1700316
Cable Bracket
DCC:
C307 Slot: D5-F5 Rack: HAM7
D25M Vac. Side Air Side D25M
D25 Vacuum Feedthrough
DCC: D1700308
C301 HAM7 ISI On Table
Squeezer Thermistor & Peltier
D9M 6ft VAC_SQ_012
DCC: D1700439
Squeezer Thermistor & IOPO TEC
DCC: D1700306
C305 HAM7 ISI On Table
DeviceSide FlangeSide
D25 260 Inches VAC_SQ_018
DCC: D1700316
Cable Bracket
DCC:
C308 Slot: D5-F4 Rack: HAM7
D25M Vac. Side Air Side D25M 70ft ISC_SQ_303
70ft ISC_SQ_304
70ft ISC_SQ_305
D25 Vacuum Feedthrough
D25F
D25F
D25F
C310
Cav. Piezo, Oven Transl.
OPO TEC & Thermistor
DCPDs, BDiv, Lens Transl.
HAM5 OFI DCPD
PI 870 Inputs
Beam Div. HAM5
Beam Div. HAM7
DCPD A
DCPD B
DCPD C
DCPD D
DCPD HAM5
Piezo 1
Piezo 2
EtherCat TEC, Therm 1
Therm 2
Therm 3
Therm 4
D9M Not compatible with LIGO picomotor driver
ISC_SQ_508 BDIV HAM7 ISC_C2_SH2[2C]
DCPD 1 SqueezerConcentrators[4C]
DCPD 2 SqueezerConcentrators[4C]
DCPD 3 SqueezerConcentrators[3B]
DCPD 4 SqueezerConcentrators[3B]
DCPD 5 SqueezerConcentrators[3B]
Piezo 1 SqueezerRfControls1[5A]
Piezo 2 SqueezerRfControls1[5A]
D15M Oven
M12F Witness
M12F Bottom Reservoir
M12F Unused
OPO_TEC SqueezerBeckhoff2[3A]
Therm. 8_1 SqueezerBeckhoff2[3B]
Therm. 8_2 SqueezerBeckhoff2[3C]
Therm. 8_3 SqueezerBeckhoff2[3C]
Squeezer Vac. Interface V2
DCC: D2100369
Rack: SQZ-R2 Slot: U8
DCC: D1700308
C302 HAM7 ISI On Table
Squeezer DCPD & Lens Transl.
D9M 2ft VAC_SQ_013 D9
DCC: D1700440
Squeezer DCPD & Lens Transl.
DCC: D1700307
C303 HAM7 ISI On Table
DeviceSide FlangeSide
D9 6ft VAC_SQ_016 D25
DCC: D1700308
Cable Bracket
DCC: D1700306
C306 HAM7 ISI On Table
DeviceSide FlangeSide
D25 260 Inches VAC_SQ_019
DCC: D1700316
Cable Bracket
DCC:
C309 Slot: D5-F6 Rack: HAM7
D25M Vac. Side Air Side D25M
D25 Vacuum Feedthrough
Beam diverter
HAM5 DCPD
DCC:
C252 Slot: D5-1C2 Rack: HAM5
D25M Vac. Side Air Side D25M 90ft ISC_SQ_481
D25 Vacuum Feedthrough
D1700308 Wiring Diagram - More Cables
| LHO | LLO
DCPD A | Green pump | Green pump
DCPD B | Red CLF | Red CLF
DCPD C | Green FC | Green FC
DCPD D | OFI_A HAM7 | OFI_A HAM7
DCPP HAM5 | OFI_B HAM5 | OFI_B HAM5
_Ties to Beckhoff
Ties to RF Distribution
Key
Dot Identifies Cable Shield Terminating to Backshell
Pin With Triangle Indicates Pin on Rear or the Like
Pin With No Triangle Indicates Pin on Front or the Like
Light Blue Symbols Are In-Vacuum
Yellow Symbols Are In-Air
Last Edited: 7/24/2024
Title
Squeezer In-Vacuum Controls
LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology
LIGO
Size: B
DCC Number: D1900511
Revision: V10
Engineer: R. Abbott
Date: 8/13/2024
Time: 10:24:01 AM
File: C:\Users\daniel.sigg\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerInVacControls.SchDoc
Sheet 29 of 37



Last Edited: *7/24/2024*

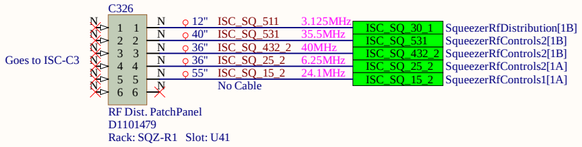
Title: ***Squeezer Fiber Connetctions***

LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology

LIGO

Size: B	DCC Number: D1900511	Revision: V10	Engineer: *R. Abbott*	Date: 8/13/2024
				Time: 10:24:01 AM
File: C:\Users\daniel.sigg\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerFiber.SchDoc				Sheet 30 of 37

RF Patch Panel 34



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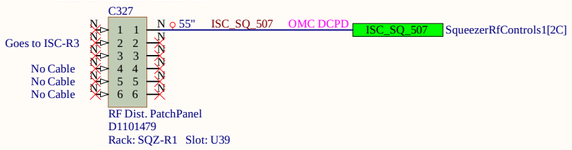

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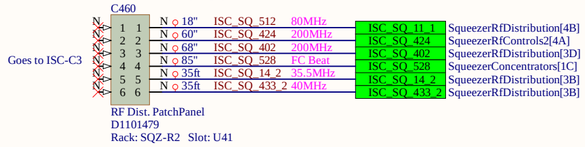
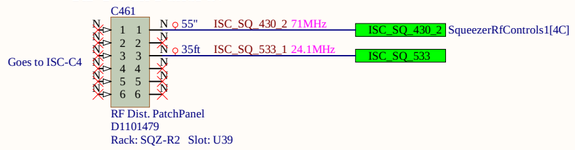
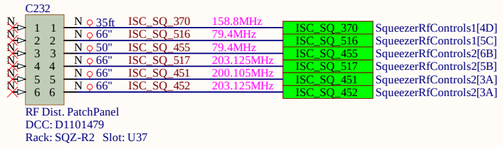


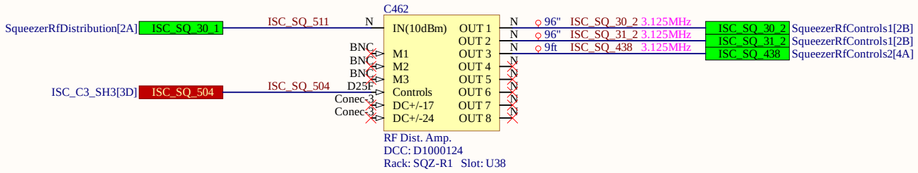
RF Patch Panel 37

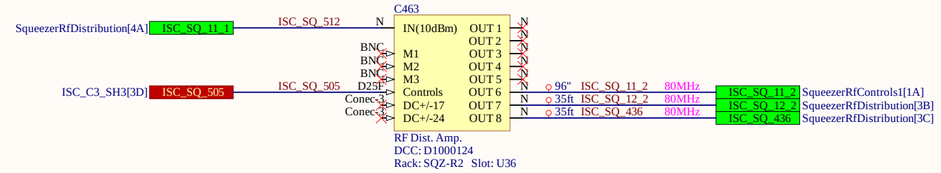


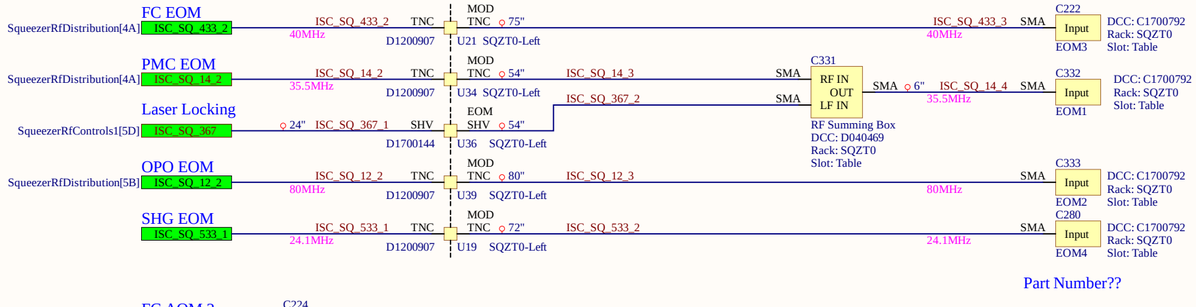
RF Patch Panel 38



New cables for A_ start at ISC_SQ_430







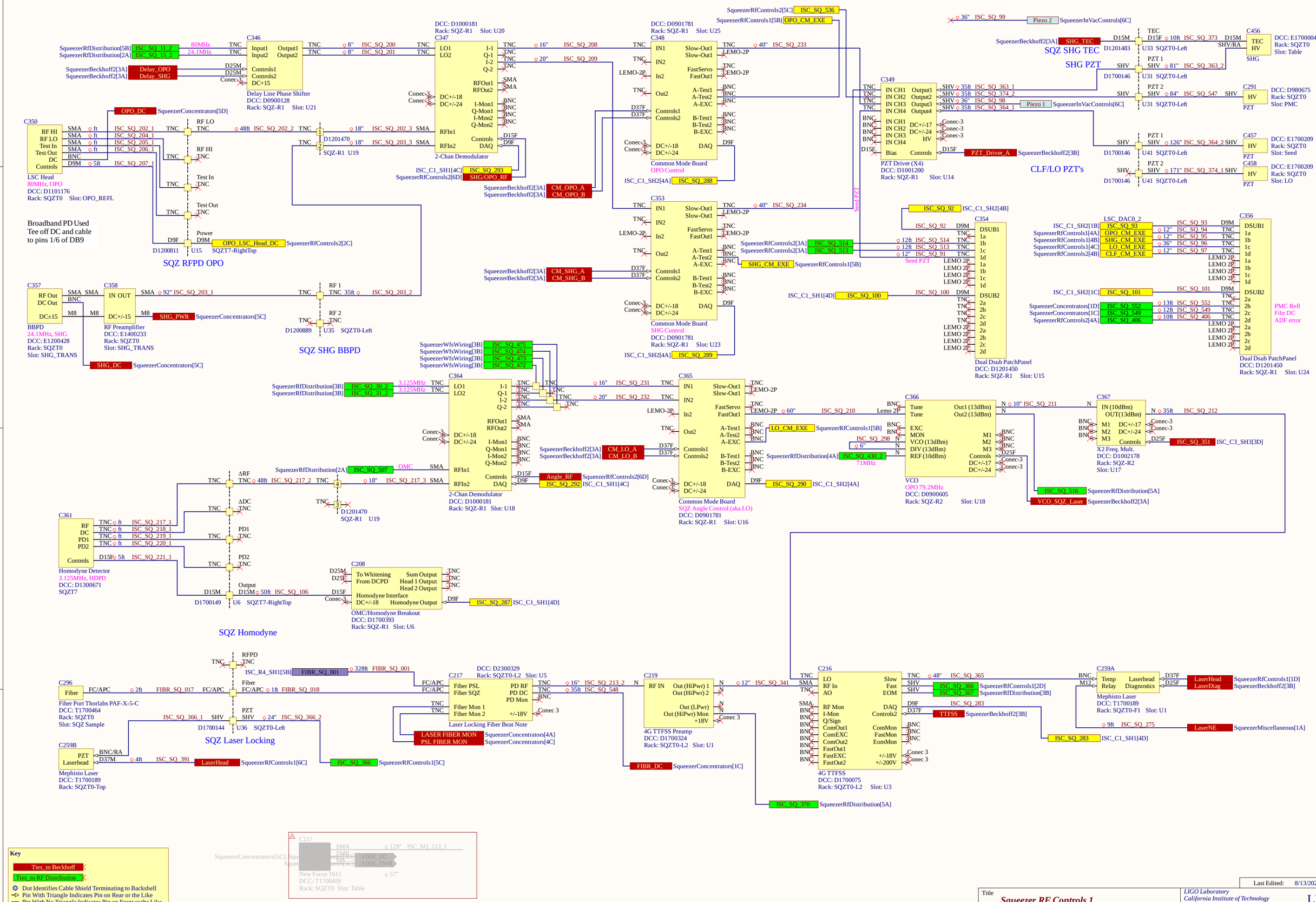
Part Number??

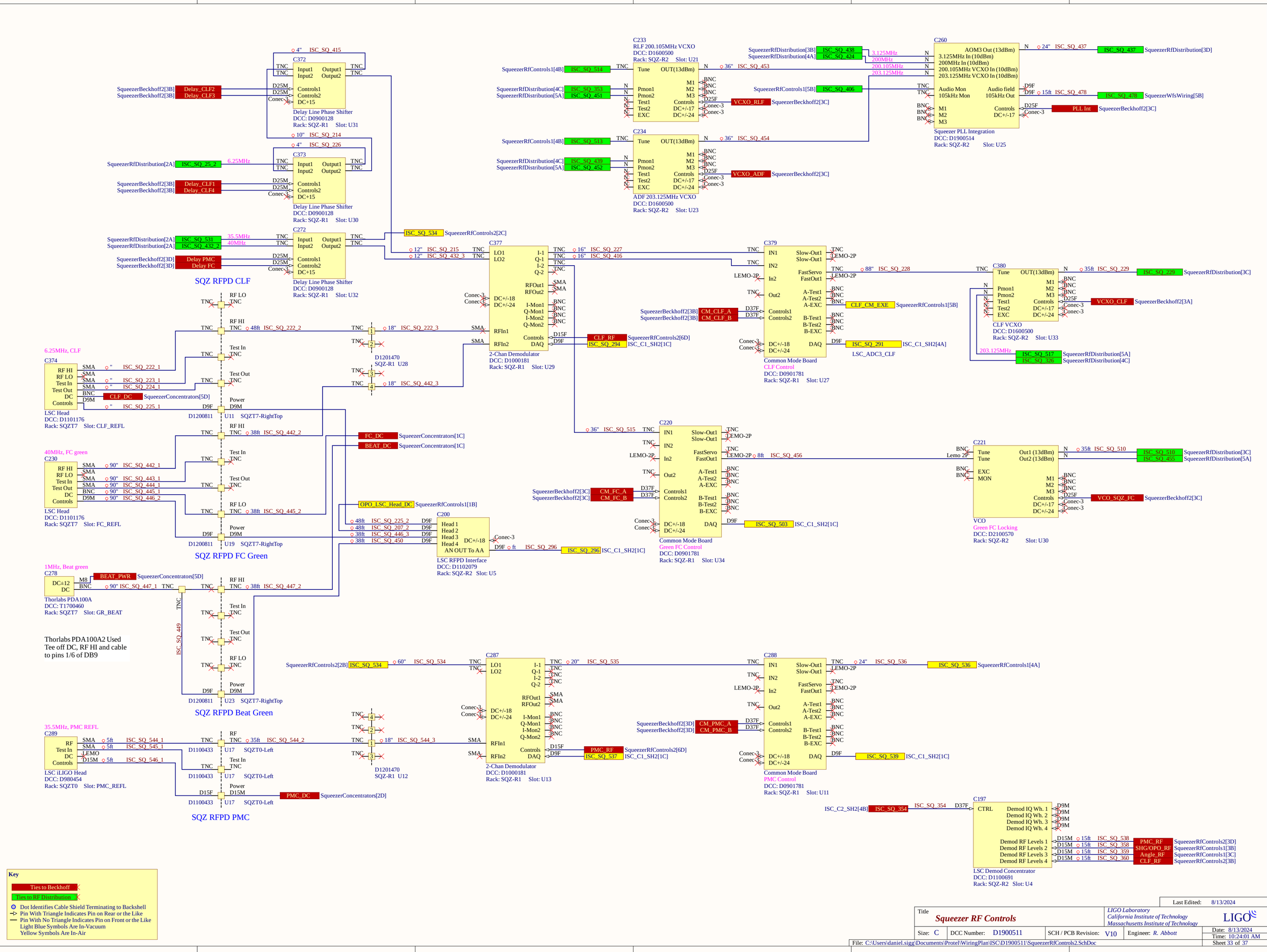
RF cables carrying the AOM signals need to be 1/4" superflexible helical corrugated coax.

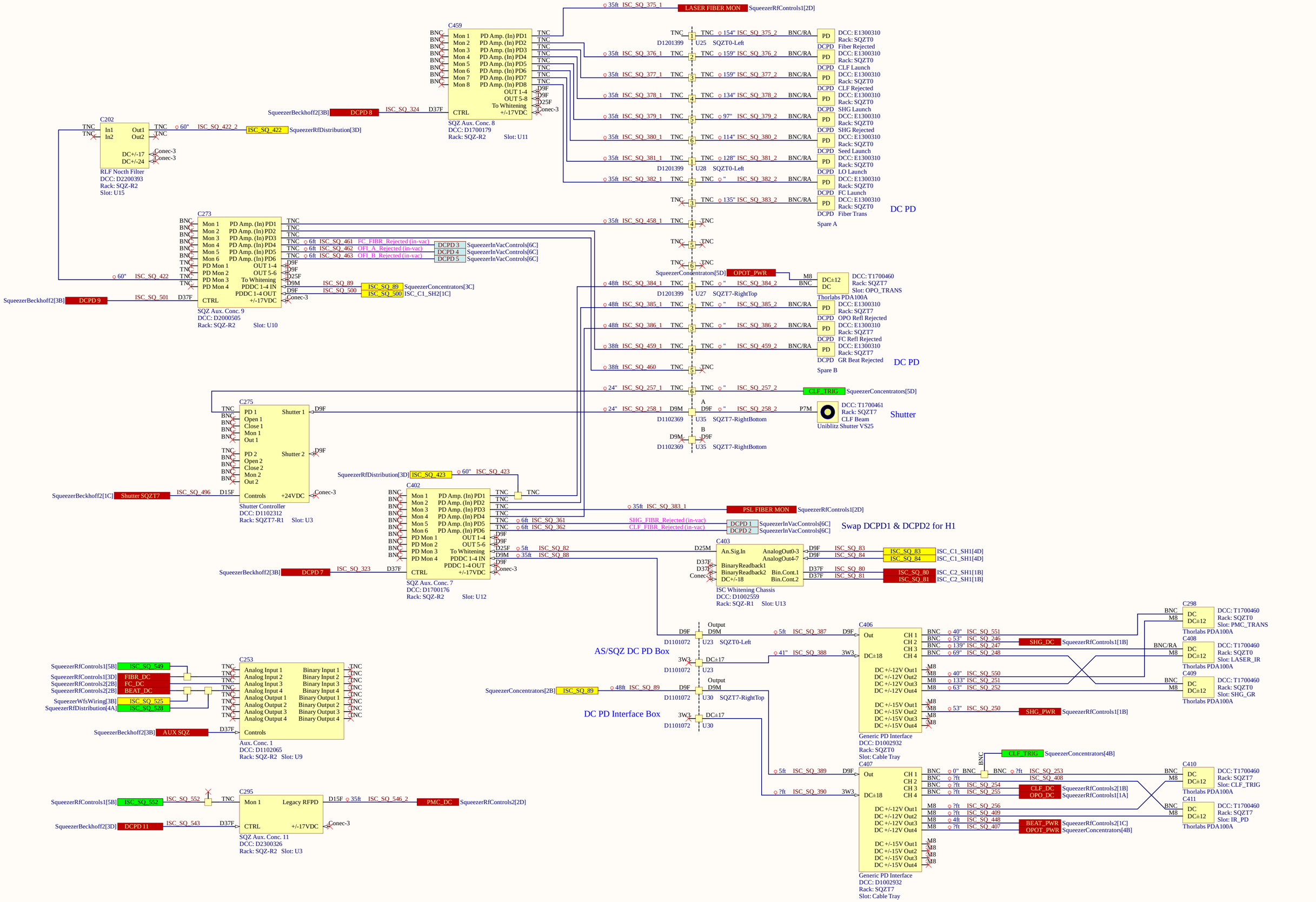
Key

- Ties to Beckhoff_
- Ties to RF Controls or WFS Wiring_
- Dot Identifies Cable Shield Terminating to Backshell
- Pin With Triangle Indicates Pin on Rear or the Like
- Pin With No Triangle Indicates Pin on Front or the Like
- Light Blue Symbols Are In-Vacuum
- Yellow Symbols Are In-Air

Title: **Squeezer RF Distribution**		
Size: C	Number: D1900511	Revision: V10
Date: 8/13/2024	Sheet of 31 37	
File: C:\Users\..\SqueezerRfDistribution.SchDoc	Drawn By: R. Abbott	


SQZ RFPD OPO
SQZ SHG BBPD
SQZ Homodyne
SQZ SHG TEC
SHG PZT
CLF/LO PZT's
SQZ Laser Locking
Broadband PD Used
Tee off DC and cable
to pins 1/6 of DB9
LSC Head
80MHz, OPO
DCC: D1101176
Rack: SQZT0 Slot: OPO_REFL
Delay Line Phase Shifter
DCC: D0900128
Rack: SQZ-R1 Slot: U21
2-Chan Demodulator
DCC: D1000181
Rack: SQZ-R1 Slot: U20
Common Mode Board
OPO Control
DCC: D0901781
Rack: SQZ-R1 Slot: U25
Common Mode Board
SHG Control
DCC: D0901781
Rack: SQZ-R1 Slot: U23
PZT Driver (X4)
DCC: D1001200
Rack: SQZ-R1 Slot: U14
Dual Dsub PatchPanel
DCC: D1201450
Rack: SQZ-R1 Slot: U15
Dual Dsub PatchPanel
DCC: D1201450
Rack: SQZ-R1 Slot: U24
BBPD
24.1MHz, SHG
DCC: E1200428
Rack: SQZT0
Slot: SHG_TRANS
RF Preamplifier
DCC: E1400233
Rack: SQZT0
Slot: SHG_TRANS
2-Chan Demodulator
DCC: D1000181
Rack: SQZ-R1 Slot: U18
Homodyne Detector
3.125MHz, HDPD
DCC: D1300671
SQZT7
OMC/Homodyne Breakout
DCC: D1700393
Rack: SQZ-R1 Slot: U6
Mephisto Laser
DCC: T1700189
Rack: SQZT0-Top
Fiber Port Thorlabs PAF-X-5-C
DCC: T1700464
Rack: SQZT0
Slot: SQZ Sample
Laser Locking Fiber Beat Note
4G TTFSS Preamp
DCC: D1700324
Rack: SQZT0-L2 Slot: U1
4G TTFSS
DCC: D1700075
Rack: SQZT0-L2 Slot: U3
VCO
OPO 79.2MHz
DCC: D0900605
Rack: SQZ-R2 Slot: U18
X2 Freq. Mult.
DCC: D1002178
Rack: SQZ-R2
Slot: U17
Mephisto Laser
DCC: T1700189
Rack: SQZT0-F1 Slot: U1
PMC Refl
Fibr DC
ADF error
Key
Ties_to Beckhoff
Ties_to RF Distribution
Dot Identifies Cable Shield Terminating to Backshell
Pin With Triangle Indicates Pin on Rear or the Like
Pin With No Triangle Indicates Pin on Front or the Like
Light Blue Symbols Are In-Vacuum
Yellow Symbols Are In-Air
Last Edited: 8/13/2024
Title
Squeezer RF Controls 1
LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology
LIGO
Size: C
DCC Number: D1900511
SCH / PCB Revision: V10
Engineer: R. Abbott
Date: 8/13/2024
Time: 10:24:01 AM
Sheet 32 of 37
File: C:\Users\daniel.sigg\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerRfControls1.SchDoc


SQZ RFPD CLF
SQZ RFPD FC Green
SQZ RFPD Beat Green
SQZ RFPD PMC
C372
Delay Line Phase Shifter
DCC: D0900128
Rack: SQZ-R1 Slot: U31
C373
Delay Line Phase Shifter
DCC: D0900128
Rack: SQZ-R1 Slot: U30
C272
Delay Line Phase Shifter
DCC: D0900128
Rack: SQZ-R1 Slot: U32
C233
RLF 200.105MHz VCXO
DCC: D1600500
Rack: SQZ-R2 Slot: U21
C234
ADF 203.125MHz VCXO
DCC: D1600500
Rack: SQZ-R2 Slot: U23
C260
Squeezer PLL Integration
DCC: D1900514
Rack: SQZ-R2 Slot: U25
C377
2-Chan Demodulator
DCC: D1000181
Rack: SQZ-R1 Slot: U29
C379
Common Mode Board
CLF Control
DCC: D0901781
Rack: SQZ-R1 Slot: U27
C380
CLF VCXO
DCC: D1600500
Rack: SQZ-R2 Slot: U33
C374
LSC Head
DCC: D1101176
Rack: SQZT7 Slot: CLF_REFL
D1201470
SQZ-R1 U28
C220
Common Mode Board
Green FC Control
DCC: D0901781
Rack: SQZ-R1 Slot: U34
C221
VCO
Green FC Locking
DCC: D2100570
Rack: SQZ-R2 Slot: U30
C230
LSC Head
DCC: D1101176
Rack: SQZT7 Slot: FC_REFL
C200
LSC RFPD Interface
DCC: D1102079
Rack: SQZ-R2 Slot: U5
C278
Thorlabs PDA100A
DCC: T1700460
Rack: SQZT7 Slot: GR_BEAT
Thorlabs PDA100A2 Used
Tee off DC, RF HI and cable
to pins 1/6 of DB9
C287
2-Chan Demodulator
DCC: D1000181
Rack: SQZ-R1 Slot: U13
C288
Common Mode Board
PMC Control
DCC: D0901781
Rack: SQZ-R1 Slot: U11
C289
LSC iLIGO Head
DCC: D980454
Rack: SQZT0 Slot: PMC_REFL
C197
LSC Demod Concentrator
DCC: D1100691
Rack: SQZ-R2 Slot: U4
Key
Ties to Beckhoff
Ties to RF Distribution
Dot Identifies Cable Shield Terminating to Backshell
Pin With Triangle Indicates Pin on Rear or the Like
Pin With No Triangle Indicates Pin on Front or the Like
Light Blue Symbols Are In-Vacuum
Yellow Symbols Are In-Air
Last Edited: 8/13/2024
Title
Squeezer RF Controls
LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology
LIGO
Size: C
DCC Number: D1900511
SCH / PCB Revision: V10
Engineer: R. Abbott
Date: 8/13/2024
Time: 10:24:01 AM
Sheet 33 of 37
File: C:\Users\daniel.sigg\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerRfControls2.SchDoc



Last Edited:	7/24/2024
Title	*Squeezer Concentrators*
	LIGO Laboratory *California Institute of Technology* *Massachusetts Institute of Technology* LIGO
Size: C	DCC Number: D1900511
SCH / PCB Revision: V10	Engineer: *R. Abbott*
Date: 8/13/2024	Time: 10:24:01 AM
File: C:\Users\daniel.sigg\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerConcentrators.SchDoc	Sheet 34 of 37

Flipper

Key

Ties to Other Sheets

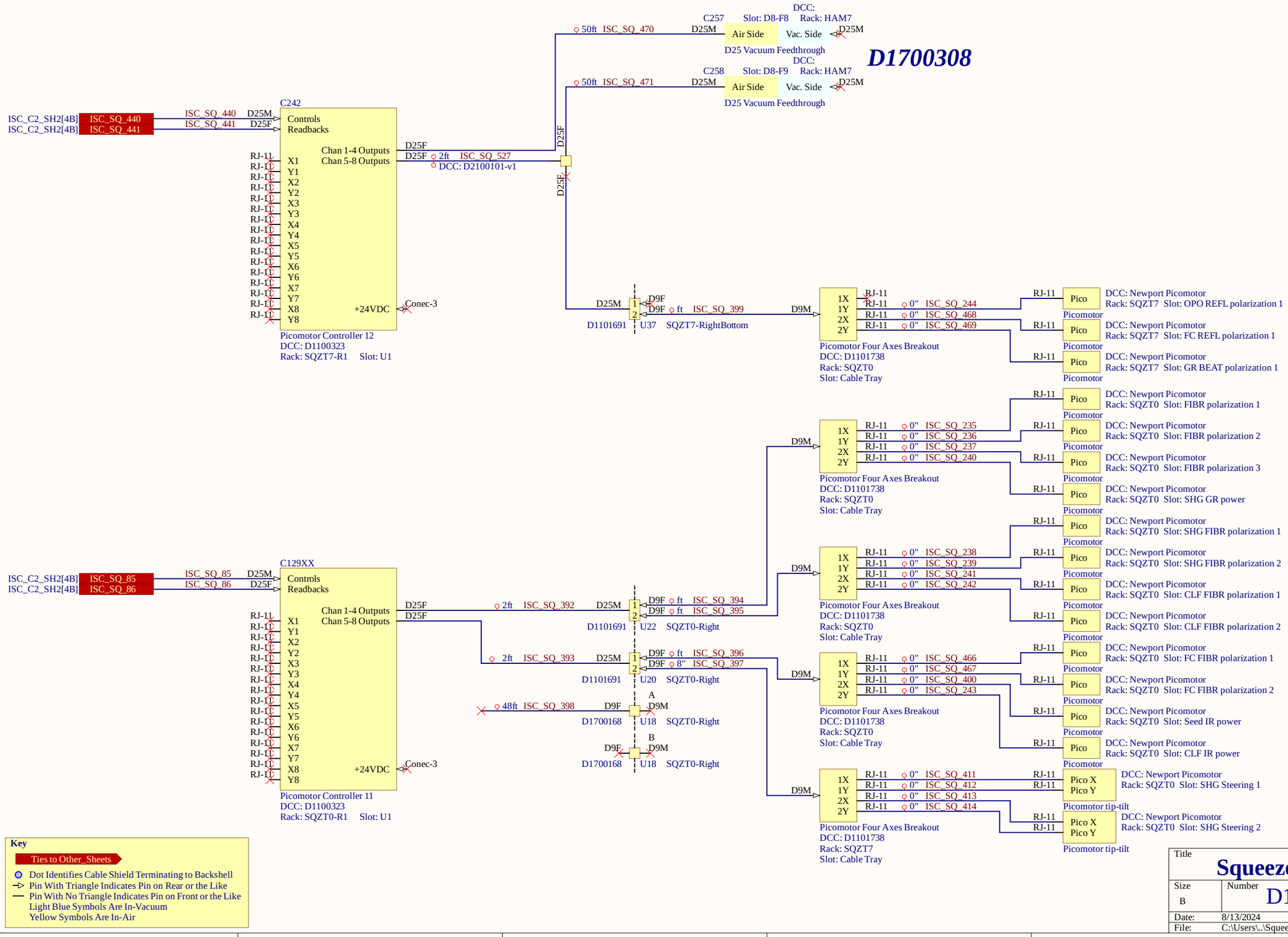
- Dot Identifies Cable Shield Terminating to Backshell
- Pin With Triangle Indicates Pin on Rear or the Like
- Pin With No Triangle Indicates Pin on Front or the Like
- Light Blue Symbols Are In-Vacuum
- Yellow Symbols Are In-Air

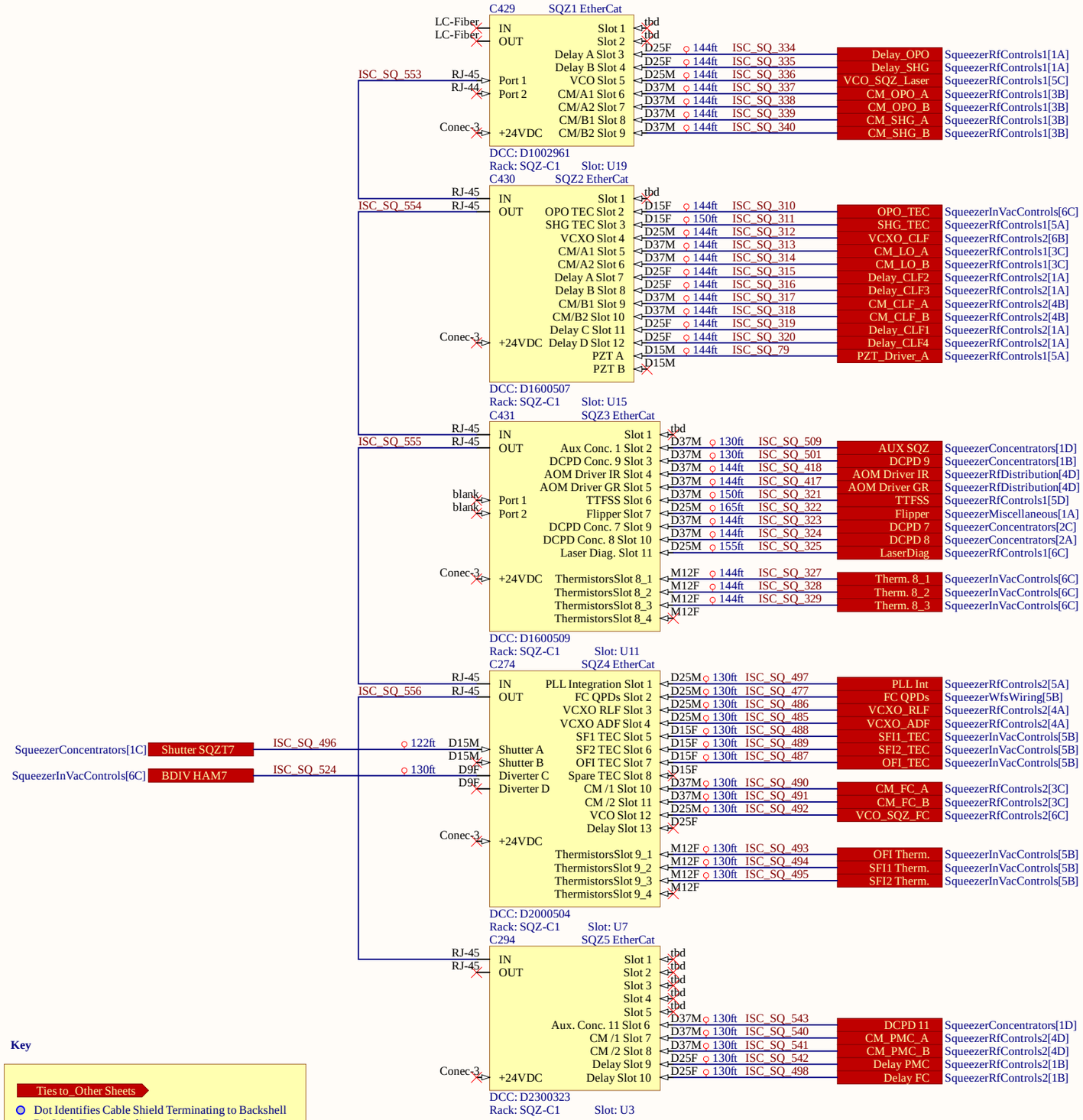
D1200813, U41

New Cameras per Table Feedthrough Panel

Last Edited: 7/24/2024			
Title: *Squeezer Miscellaneous*	*LIGO Laboratory* *California Institute of Technology* *Massachusetts Institute of Technology*	LIGO	
Size: C	DCC Number: D1900511	SCH / PCB Revision: V10	Engineer: *R. Abbott*
Date: 8/13/2024	Time: 10:24:01 AM	Sheet 35 of 37	

File: C:\Users\daniel.sigg\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerMiscellaneous.SchDoc


D1700308
C257 Slot: D8-F8 DCC: Rack: HAM7
50ft ISC_SQ_470 D25M Air Side Vac. Side D25M
D25 Vacuum Feedthrough
C258 Slot: D8-F9 DCC: Rack: HAM7
50ft ISC_SQ_471 D25M Air Side Vac. Side D25M
D25 Vacuum Feedthrough
C242
ISC_C2_SH2[4B] ISC_SQ_440 ISC_SQ_440 D25M
ISC_C2_SH2[4B] ISC_SQ_441 ISC_SQ_441 D25F
Controls
Readbacks
Chan 1-4 Outputs
Chan 5-8 Outputs
RJ-11 X1 Y1 X2 Y2 X3 Y3 X4 Y4 X5 Y5 X6 Y6 X7 Y7 X8 Y8
+24VDC Conec-3
Picomotor Controller 12
DCC: D1100323
Rack: SQZT7-R1 Slot: U1
D25F 2ft ISC_SQ_527
DCC: D2100101-v1
D25F
D25M 1 2 D9F ft ISC_SQ_399
D1101691 U37 SQZT7-RightBottom
D9M
1X 1Y 2X 2Y
Picomotor Four Axes Breakout
DCC: D1101738
Rack: SQZT0
Slot: Cable Tray
RJ-11 0" ISC_SQ_244
RJ-11 0" ISC_SQ_468
RJ-11 0" ISC_SQ_469
Pico
Picomotor
DCC: Newport Picomotor
Rack: SQZT7 Slot: OPO REFL polarization 1
DCC: Newport Picomotor
Rack: SQZT7 Slot: FC REFL polarization 1
DCC: Newport Picomotor
Rack: SQZT7 Slot: GR BEAT polarization 1
C129XX
ISC_C2_SH2[4B] ISC_SQ_85 ISC_SQ_85 D25M
ISC_C2_SH2[4B] ISC_SQ_86 ISC_SQ_86 D25F
Controls
Readbacks
Chan 1-4 Outputs
Chan 5-8 Outputs
RJ-11 X1 Y1 X2 Y2 X3 Y3 X4 Y4 X5 Y5 X6 Y6 X7 Y7 X8 Y8
+24VDC Conec-3
Picomotor Controller 11
DCC: D1100323
Rack: SQZT0-R1 Slot: U1
D25F 2ft ISC_SQ_392 D25M 1 2 D9F ft ISC_SQ_394
D25F D9F ft ISC_SQ_395
D1101691 U22 SQZT0-Right
2ft ISC_SQ_393 D25M 1 2 D9F ft ISC_SQ_396
D9F 8" ISC_SQ_397
D1101691 U20 SQZT0-Right
48ft ISC_SQ_398 D9F A D9M
D1700168 U18 SQZT0-Right
D9F B D9M
D1700168 U18 SQZT0-Right
D9M
1X 1Y 2X 2Y
Picomotor Four Axes Breakout
DCC: D1101738
Rack: SQZT0
Slot: Cable Tray
RJ-11 0" ISC_SQ_235
RJ-11 0" ISC_SQ_236
RJ-11 0" ISC_SQ_237
RJ-11 0" ISC_SQ_240
Pico
Picomotor
DCC: Newport Picomotor
Rack: SQZT0 Slot: FIBR polarization 1
DCC: Newport Picomotor
Rack: SQZT0 Slot: FIBR polarization 2
DCC: Newport Picomotor
Rack: SQZT0 Slot: FIBR polarization 3
DCC: Newport Picomotor
Rack: SQZT0 Slot: SHG GR power
RJ-11 0" ISC_SQ_238
RJ-11 0" ISC_SQ_239
RJ-11 0" ISC_SQ_241
RJ-11 0" ISC_SQ_242
DCC: Newport Picomotor
Rack: SQZT0 Slot: SHG FIBR polarization 1
DCC: Newport Picomotor
Rack: SQZT0 Slot: SHG FIBR polarization 2
DCC: Newport Picomotor
Rack: SQZT0 Slot: CLF FIBR polarization 1
DCC: Newport Picomotor
Rack: SQZT0 Slot: CLF FIBR polarization 2
RJ-11 0" ISC_SQ_466
RJ-11 0" ISC_SQ_467
RJ-11 0" ISC_SQ_400
RJ-11 0" ISC_SQ_243
DCC: Newport Picomotor
Rack: SQZT0 Slot: FC FIBR polarization 2
DCC: Newport Picomotor
Rack: SQZT0 Slot: Seed IR power
DCC: Newport Picomotor
Rack: SQZT0 Slot: CLF IR power
RJ-11 0" ISC_SQ_411
RJ-11 0" ISC_SQ_412
RJ-11 0" ISC_SQ_413
RJ-11 0" ISC_SQ_414
Pico X
Pico Y
Picomotor tip-tilt
DCC: Newport Picomotor
Rack: SQZT0 Slot: SHG Steering 1
DCC: Newport Picomotor
Rack: SQZT0 Slot: SHG Steering 2
Key
Ties to Other_Sheets
Dot Identifies Cable Shield Terminating to Backshell
Pin With Triangle Indicates Pin on Rear or the Like
Pin With No Triangle Indicates Pin on Front or the Like
Light Blue Symbols Are In-Vacuum
Yellow Symbols Are In-Air
Title
Squeezer Beckhoff Interfaces
Size B
Number D1900511
Revision V10
Date: 8/13/2024
Sheet 36 of 37
File: C:\Users\..\SqueezerBeckhoff1.SchDoc
Drawn By: R. Abbott



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Size: B	Number: D1900511	Revision: V10
Date: 8/13/2024	Sheet 37 of 37	
File: C:\Users\..\SqueezerBeckhoff2.SchDoc	Drawn By: R. Abbott	