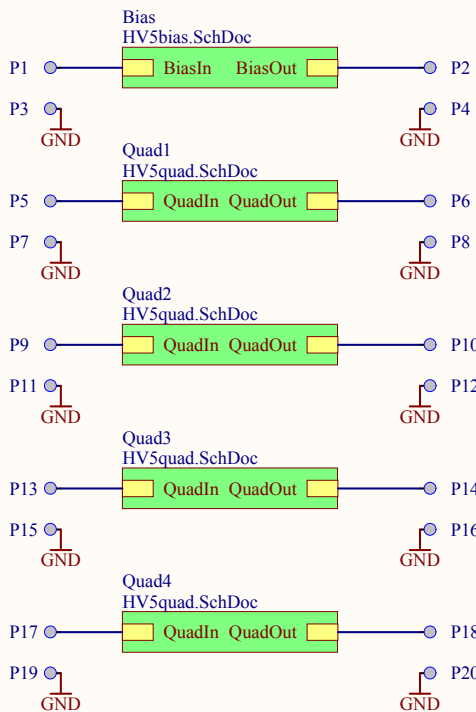


Bias Input (SHV Jack)

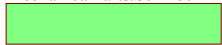
Bias Output (SHV Jack)

Quadrant Inputs (SHV Jack)

Quadrant Outputs (SHV Jack)



MechanicalParts
MechanicalParts.SchDoc



U_TransferFunctions
TransferFunctions.SchDoc



Last Edited: 3/5/2015

Title
5 Channel Filter Top Sheet

LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology



Size: A DCC Number: D1500113

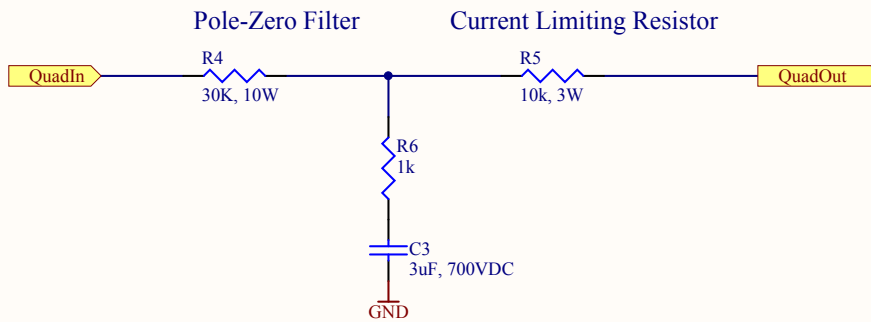
Revision: V1

Engineer: R. Abbott

Date: 3/6/2015
Time: 3:27:05 PM

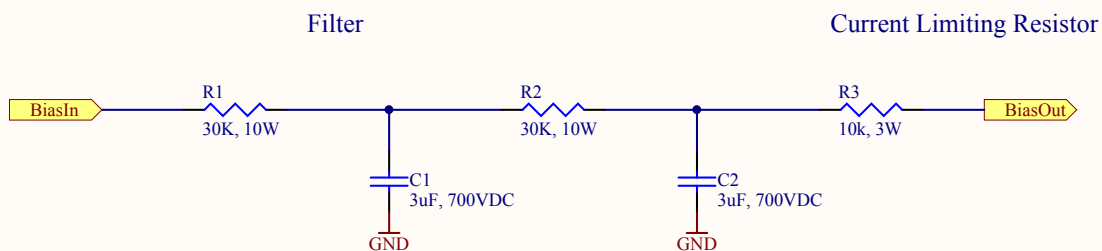
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Sheet 1 of 5



Last Edited:	3/5/2015
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Title		<i>Quadrant Path Filter</i>		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO [®]	
Size: A	DCC Number: D1500113	Revision: V1	Engineer: R. Abbott	Date: 3/6/2015		Time: 3:27:05 PM	
File: C:\Rich's Files\Mycadfiles\ISC\5ChannelHVFilter\HV5quad.SchDoc				Sheet 2 of 5			



Last Edited: 3/5/2015

Title Bias Path Filter		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: A	DCC Number: D1500113	Revision: V1	Engineer: R. Abbott	Date: 3/6/2015	
File: C:\Rich's Files\Mycadfiles\ISC\5ChannelHVFilter\HV5bias.SchDoc				Time: 3:27:05 PM	
				Sheet 3 of 5	

1

2

3

4

A

A

Part1
Metal Box
902-1011-ND

Part2
SHV Connector
A24669-ND

Part3
Ground Lug
ARF1068-ND

Part4
SHV Connector
A24669-ND

Part5
Ground Lug
ARF1068-ND

Part6
SHV Connector
A24669-ND

Part7
Ground Lug
ARF1068-ND

Part8
SHV Connector
A24669-ND

Part9
Ground Lug
ARF1068-ND

Part10
SHV Connector
A24669-ND

Part11
Ground Lug
ARF1068-ND

Part12
SHV Connector
A24669-ND

Part13
Ground Lug
ARF1068-ND

Part14
SHV Connector
A24669-ND

Part15
Ground Lug
ARF1068-ND

Part16
SHV Connector
A24669-ND

Part17
Ground Lug
ARF1068-ND

Part18
SHV Connector
A24669-ND

Part19
Ground Lug
ARF1068-ND

Part20
SHV Connector
A24669-ND

Part21
Ground Lug
ARF1068-ND

B

B

C

C

D

D

Last Edited: 3/5/2015

Title
Mechanical Parts

LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology



Size: A DCC Number: D1500113 Revision: V1

Engineer: R. Abbott

Date: 3/6/2015

File: C:\Rich's Files\Mycadfiles\ISC\5ChannelHVFilter\MechanicalParts.SchDoc

Time: 3:27:05 PM

Sheet 4 of 5

1

2

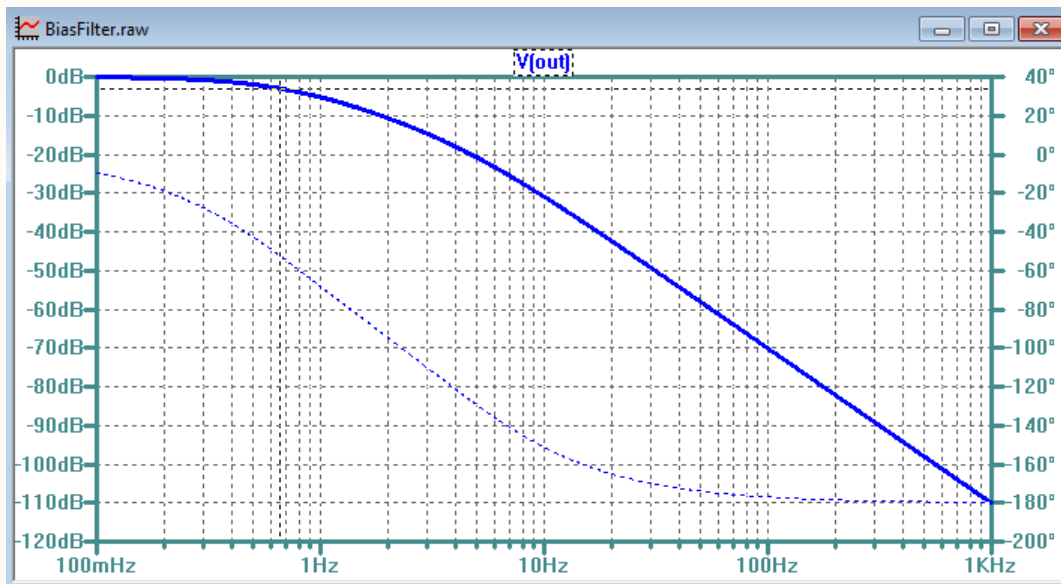
3

4

A

A

Bias Path Filter



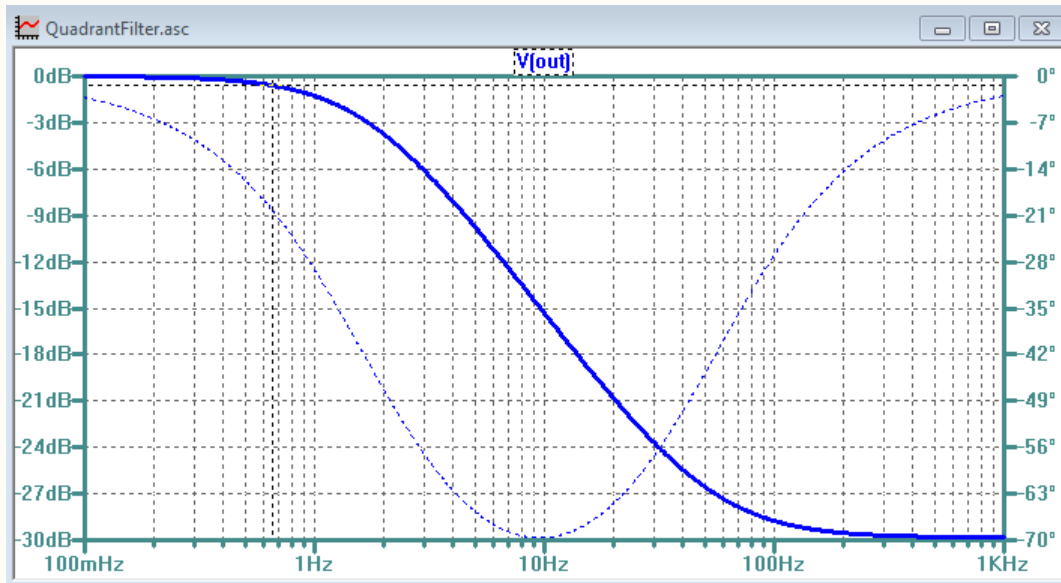
B

B

C

C

Quadrant Filter



D

D

Last Edited: 3/5/2015

Title **Transfer Functions**

LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology



Size: A

DCC Number: D1500113

Revision: V1

Engineer: R. Abbott

Date: 3/6/2015

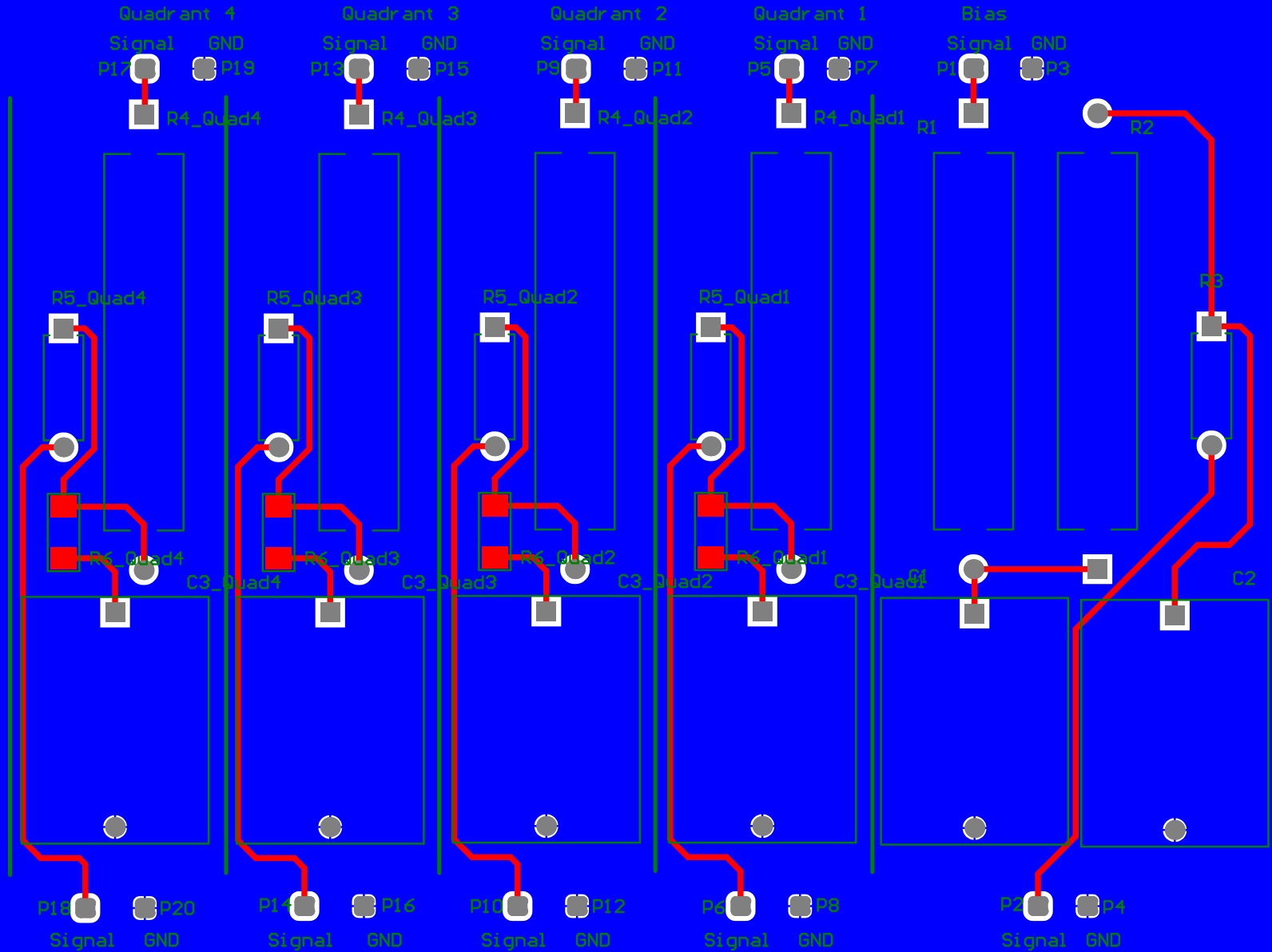
Time: 3:27:05 PM

Sheet 5 of 5

D1500113-V1 ESD HV Filter

Caution HIGH VOLTAGES Capacitors May Hold Charge

INPUTS



OUTPUTS

LIGO Bill of Materials

Source Data From: HV5chanFilter_v1.PrjPCB
Board Designed By: R. Abbott
Board D-number: D1500113
Board Revision: V1
Variant: None

Creation Date: 3/6/2015 3:27:08 PM
Print Date: 06-Mar-15 3:27:10 PM

Designator	Comment	Description	Digikey Part Number	Manufacturers Part Number	Quantity
C1, C2, C3_Quad1, C3_Quad2, C3_Quad3, C3_Quad4	3uF, 700VDC	10uF, 700VDC Capacitor	BC2786-ND	MKP1848S53070JK2A	6
Part1	Metal Box	Rose Bopla Metal Box	902-1011-ND	041624080	1
Part2, Part4, Part6, Part8, Part10, Part12, Part14, Part16, Part18, Part20	SHV Connector	Bulkhead Feedthrough SHV Connector	A24669-ND	51494-2	10
Part3, Part5, Part7, Part9, Part11, Part13, Part15, Part17, Part19, Part21	Ground Lug	Ground Lug Compatible With Bulkhead SHV	ARF1068-ND	31-10152-RFX	10
R1, R2, R4_Quad1, R4_Quad2, R4_Quad3, R4_Quad4	30K, 10W		20J30KE-ND	20J30KE	6
R3, R5_Quad1, R5_Quad2, R5_Quad3, R5_Quad4	10k, 3W		ALSR3F-10.0K-ND	ALSR0310K00FE12	5
R6_Quad1, R6_Quad2, R6_Quad3, R6_Quad4	1k	Resistor	PT1.0KXCT-ND		4
					42