



RF oscillator board is mounted inside magnetic shielding.
1 PPS locking board is mounted onto timing slave.
Timing slave, push wheels, N adapter and step attenuator
are mounted to the front-panel.
The power board is mounted to the rear panel.

Cables C1 to C3 are semi-rigid RG405.
Cables require SMA connectors on both ends.

Adjust power levels with fixed attenuators: Pasternack PE7001.

C4 is a 2-pin LEMO cable.

C5 and V1 are a flat ribbon cables.

V2 uses single pair, shield not connected.

Magnetic shielding is 3"(W) x 2"(H) x 12"(L) carbon steel tube
with 0.25" wall thickness; weight approx. 3.3kg
Insert uMetal shield inside.

PN1
Connector LEMO
Mouser
736-FGG0B302CLAZ

PN2
Connector LEMO

PN3
Collet LEMO
Mouser
736-FGG0B742DN

PN4
Collet LEMO

C4 cable

PN10
CO-NETIC AA Foil .004" x 15" x 10"
Magnetic Shield Corp.
CF004-15-10

PN8
2U chassis
LIGO
D0900200-v1

PN5
Cable, 1 pair, shielded
Mouser
566-9501-100

PN6
Collet nut LEMO
Mouser
736-FFM0B130LC

PN7
Collet nut LEMO

PN11
Front Panel
LIGO
D080703-B

PN9
Connector, 2 pin
Digi-Key
281-1243-ND

V2 cable

PN19
Magnetic Shield Rear Panel Mounting Plate
LIGO
D080707-A

PN20
Rear Panel
LIGO
D080704-A

PN12
RG405 cable semi-rigid
Pasternack
PE-SR405AL-STRAIGHT

PN13
Connector SMA/RG405
Digi-Key
ACX1181-ND

PN14
Connector SMA/RG405

PN15
Connector SMA/RG405

PN16
Connector SMA/RG405

PN17
Connector SMA/RG405

PN18
Connector SMA/RG405

C1-C3 cables

PN21
Magnetic Shield Front Panel Mounting Plate
LIGO
D0900141-B

Title			
RF Source			
Size	Number	Revision	
A	D080702	A	
Date:	4/13/2009	Sheet 1 of 2	
File:	C:\User\...\RFSource1.SchDoc	Drawn By: Daniel Sigg	

1		2		3		4			
A							A		
B	E1	#4-40 3/16" flat		H1	98H1244	E10	#4-40 3/16" flat	E32	#4-40 3/16" flat
	E2	#4-40 3/16" flat		H2	98H1244	E11	#4-40 3/16" flat	E33	#4-40 3/16" flat
	E3	#4-40 3/16" flat		M1	#6-32 1/4" flat	E12	#4-40 3/16" flat	E34	#4-40 3/16" flat
	E4	#4-40 3/16" flat		M2	#6-32 1/4" flat	E13	#4-40 3/16" flat	E35	#4-40 3/16" flat
	E5	#6-32 1/4" flat		M3	#6-32 1/4" flat	E14	#4-40 3/16" flat	E36	#4-40 3/16" flat
	E6	#6-32 1/4" flat		M4	#6-32 1/4" flat	E15	#4-40 3/16" flat	E37	#4-40 3/16" flat
	E7	#6-32 1/4" flat		M5	#6-32 1/4" flat	E16	#4-40 3/16" flat	E38	#4-40 3/16" flat
	E8	BNC lock washer		M6	#6-32 1/4" flat	E17	#4-40 3/16" flat	E39	#4-40 3/16" flat
	E9	BNC nut		M7	#6-32 1/4" flat	E18	#4-40 3/16" flat	E40	#4-40 3/16" flat
C				M8	#6-32 1/4" flat	E19	#4-40 3/16" flat	E41	#4-40 3/16" flat
				M9	#6-32 1/4" flat	E20	#4-40 3/16" flat	E42	#4-40 3/16" flat
				M10	#6-32 1/4" flat	E21	#4-40 3/16" flat	E43	#4-40 3/16" flat
						E22	#4-40 3/16" flat	E44	#4-40 3/16" flat
						E23	#4-40 3/16" flat	E45	#4-40 3/16" flat
						E24	#4-40 3/16" flat	E46	#4-40 3/16" flat
						E25	#4-40 3/16" flat	E47	#4-40 3/16" flat
						E26	#4-40 3/16" flat	E48	#4-40 3/16" flat
						E27	#4-40 3/16" flat	E49	#4-40 3/16" flat
						E28	#4-40 3/16" flat	E50	#4-40 3/16" flat
						E29	#4-40 3/16" flat	E51	#4-40 3/16" flat
						E30	#4-40 3/16" flat	E52	#4-40 3/16" flat
						E31	#4-40 3/16" flat	E53	#4-40 3/16" flat
	D							D	
1		2		3		4			

Title		
RF Source		
Size	Number	Revision
A	D080702	A
Date:	4/13/2009	Sheet 2 of 2
File:	C:\User\...\RFSource2.SchDoc	Drawn By: Daniel Sigg

E1	#4-40 3/16" flat
E2	#4-40 3/16" flat
E3	#4-40 3/16" flat
E4	#4-40 3/16" flat
E5	#6-32 1/4" flat
E6	#6-32 1/4" flat
E7	#6-32 1/4" flat
E8	BNC lock washer
E9	BNC nut

H1	98H1244
H2	98H1244
M1	#6-32 1/4" flat
M2	#6-32 1/4" flat
M3	#6-32 1/4" flat
M4	#6-32 1/4" flat
M5	#6-32 1/4" flat
M6	#6-32 1/4" flat
M7	#6-32 1/4" flat
M8	#6-32 1/4" flat
M9	#6-32 1/4" flat
M10	#6-32 1/4" flat

E10	#4-40 3/16" flat
E11	#4-40 3/16" flat
E12	#4-40 3/16" flat
E13	#4-40 3/16" flat
E14	#4-40 3/16" flat
E15	#4-40 3/16" flat
E16	#4-40 3/16" flat
E17	#4-40 3/16" flat
E18	#4-40 3/16" flat
E19	#4-40 3/16" flat
E20	#4-40 3/16" flat
E21	#4-40 3/16" flat
E22	#4-40 3/16" flat
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E24	#4-40 3/16" flat
E25	#4-40 3/16" flat
E26	#4-40 3/16" flat
E27	#4-40 3/16" flat
E28	#4-40 3/16" flat
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E40	#4-40 3/16" flat
E41	#4-40 3/16" flat
E42	#4-40 3/16" flat
E43	#4-40 3/16" flat
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E45	#4-40 3/16" flat
E46	#4-40 3/16" flat
E47	#4-40 3/16" flat
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E51	#4-40 3/16" flat
E52	#4-40 3/16" flat
E53	#4-40 3/16" flat

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