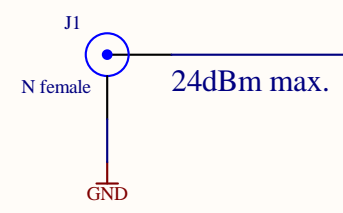
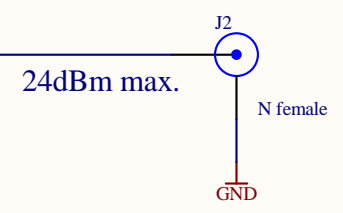


Input A



Input B

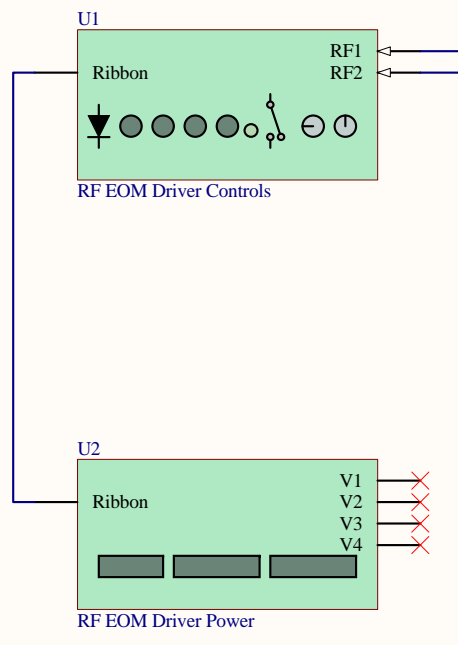


Mount stops on coarse dBm rotary switch to prevent switching between 0 dBm and 22 dBm.

Mount rear panel first, then continue with heatsink and rear mounting plate. Next, assemble front panel with controls, power boards and cable S1. Fasten front panel assembly. Mount TO-220 packages from power board to rear mounting plate using insulation hardware. Check for shorts. Finish with RF cables C1 and C2.

RF cables C1-C2 are semi-rigid RG405. Cables require SMA connectors on both ends.

Cable S1 is 50-pin flat-ribbon. Add an additional connector and shorten.



PN1  
Stand-alone chassis  
LIGO  
D0901991-v1

PN2  
Front Panel  
LIGO  
D0900892-v1

PN4  
Rear Mounting Plate  
LIGO  
D1000561-v1

PN5  
Rear Panel  
LIGO  
D1000560v1

Title			<b>RF AM Measurement</b>		
Size	Number			Revision	
B	<b>D0900891</b>			<b>A</b>	
Date:	3/13/2010	Sheet 1 of 2			
File:	C:\Users\...\RFAMMeasurement1.SchDoc	Drawn By:		Daniel Sigg	

### Covers

- 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 #4-40 3/16" flat
- E6 #4-40 3/16" flat
- E7 #4-40 3/16" flat
- E8 #4-40 3/16" flat
- E9 #4-40 3/16" flat
- E10 #4-40 3/16" flat
- E11 #4-40 3/16" flat
- E12 #4-40 3/16" flat
- McMaster-Carr  
91771A111

### Heatsink

- E25 #6-32 3/16" flat
- E26 #6-32 3/16" flat
- E27 #6-32 3/16" flat
- E28 #6-32 3/16" flat
- E29 #6-32 3/16" flat
- E30 #6-32 3/16" flat
- E31 #6-32 3/16" flat
- E32 #6-32 3/16" flat
- E33 #6-32 3/16" flat
- E34 #6-32 3/16" flat
- E35 #6-32 3/16" flat
- E36 #6-32 3/16" flat
- E37 #6-32 3/16" flat
- E38 #6-32 3/16" flat
- E39 #6-32 3/16" flat
- McMaster-Carr  
91771A143

### Rack Mounting

- H1 Handle, 3"
- H2 Handle, 3"
- Mouser  
534-9109
- 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
- McMaster-Carr  
91099A205
- M7 #6-32 3/8" flat
- M8 #6-32 3/8" flat
- M9 #6-32 3/8" flat
- M10 #6-32 3/8" flat
- McMaster-Carr  
91099A215

### Front Panel

- E48 #6-32 1/4" flat
- E49 #6-32 1/4" flat
- McMaster-Carr  
91099A205
- E40BNC lock washer
- E41 BNC nut
- E42BNC lock washer
- E43 BNC nut
- E44BNC lock washer
- E45 BNC nut
- E46 BNC lock washer
- Digi-Key  
A97567-ND
- E47 BNC nut
- Digi-Key  
A97566-ND

### TO-220

- H5 #4 -40 3/16" pan/washer
- H6 insulator
- H7 insulating shoulder washer
- H8 #4 -40 3/16" pan/washer
- H9 insulator
- H10 insulating shoulder washer
- H11 #4 -40 3/16" pan/washer
- H12 insulator
- H13 insulating shoulder washer
- H14 #4 -40 3/16" pan/washer
- H15 insulator
- H16 insulating shoulder washer
- H17 #4 -40 3/16" pan/washer
- H18 insulator
- H19 insulating shoulder washer
- H20 #4 -40 3/16" pan/washer
- H21 insulator
- H22 insulating shoulder washer
- H23 #4 -40 3/16" pan/washer
- McMaster-Carr  
90403A104
- H24 insulator
- Mouser  
532-53-77-4ACG
- H25 insulating shoulder washer
- Mouser  
532-7721-7PPS

### Standoffs

- H26 Standoff, 21mm, M3
- H27 Standoff, 21mm, M3
- H28 Standoff, 21mm, M3
- H29 Standoff, 21mm, M3
- Mouser  
728-FM2116-3005-A
- H30 M3 nut
- H31 M3 nut
- H32 M3 lock washer
- H33 M3 lock washer
- H34 M3 lock washer
- H35 M3 lock washer
- McMaster-Carr  
93925A240
- H36 M3 screw, 8mm
- H37 M3 screw, 8mm
- McMaster-Carr  
92005A118

PN7  
Belden 1671A  
Newark  
15B1936

PN8  
Connector SMA/RG405  
Digi-Key  
ACX1177-ND

PN9  
Connector SMA/RG405

PN10  
Connector SMA/RG405  
Digi-Key  
ACX1181-ND

PN11  
Connector SMA/RG405

PN12  
Flat ribbon cable, 50pin  
Digi-Key  
C3CCG-5006G-ND

PN13  
Flat ribbon connector

S1 cable

Title <b>RF AM Measurement</b>		
Size B	Number <b>D0900891</b>	Revision <b>A</b>
Date: 3/13/2010	Sheet 2 of 2	
File: C:\Users\...\RFAMMeasurement2.SchDoc	Drawn By: Daniel Sigg	