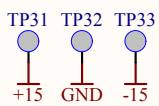


To Test Board for Manual Operation

- TP1 ● UR HVLV Switch
- TP2 ● LR HVLV Switch
- TP3 ● UL HVLV Switch
- TP4 ● LL HVLV Switch
- TP5 ● UR LR QuadrantSelect
- TP6 ● UL LL QuadrantSelect
- TP7 ● HV ESD On Off
- TP8 ● UR InputRelay
- TP9 ● LR InputRelay
- TP10 ● UL InputRelay
- TP11 ● LL InputRelay
- TP12 ● UR PoleZeroByp
- TP13 ● LR PoleZeroByp
- TP14 ● UL PoleZeroByp
- TP15 ● LL PoleZeroByp

- TP16 ● UR HVLV Switch_Mon
- TP17 ● LR HVLV Switch_Mon
- TP18 ● UL HVLV Switch_Mon
- TP19 ● LL HVLV Switch_Mon
- TP20 ● UR LR QuadrantSelect_Mon
- TP21 ● UL LL QuadrantSelect_Mon
- TP22 ● HV ESD On Off_Mon
- TP23 ● UR InputRelay_Mon
- TP24 ● LR InputRelay_Mon
- TP25 ● UL InputRelay_Mon
- TP26 ● LL InputRelay_Mon
- TP27 ● UR PoleZeroByp_Mon
- TP28 ● LR PoleZeroByp_Mon
- TP29 ● UL PoleZeroByp_Mon
- TP30 ● LL PoleZeroByp_Mon

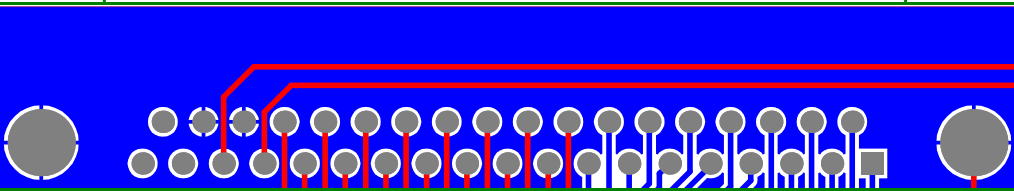


- | | | | | | | | | | | | | |
|---------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| Part1
1.5 meter M-F 37-Pin Dsub Cable
277-9202-ND | Part2
Rubber Foot
720K-ND | Part3
Rubber Foot
720K-ND | Part4
Rubber Foot
720K-ND | Part5
Rubber Foot
720K-ND | Part6
4-40 Pan Head Screw
335-1082-ND | Part7
4-40 Pan Head Screw
335-1082-ND | Part8
4-40 Pan Head Screw
335-1082-ND | Part9
4-40 Pan Head Screw
335-1082-ND | Part10
#4 Steel Washer
5205820-3-ND | Part11
#4 Steel Washer
5205820-3-ND | Part12
#4 Steel Washer
5205820-3-ND | Part13
#4 Steel Washer
5205820-3-ND |
|---------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|

Title ETM Low Noise Driver Chassis Test Board		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		Last Edited: 5/28/2015
Size: A	DCC Number: D1500130	Revision: V2	Engineer: R. Abbott	Date: 5/28/2015
File: C:\Rich's Files\Mycadfiles\Suspensions\ETM LVLN Driver Test Board\ETMLNDriverTest.SchDoc				Time: 11:04:59 AM Sheet 1 of 1



J1



TP31 +15
TP32 GND
TP33 -15

16 Test Ports On Rear 30 LED ROD Driver

TP30 TP29 TP28 TP27 TP26 TP25 TP24 TP23 TP22 TP21 TP20 TP19 TP18 TP17 TP16
TP15 TP14 TP13 TP12 TP11 TP10 TP9 TP8 TP7 TP6 TP5 TP4 TP3 TP2 TP1

D3 D1

SW15 SW14 SW13 SW12 SW11 SW10 SW9 SW8 SW7 SW6 SW5 SW4 SW3 SW2 SW1
1 0 1 0

LL UL LR UR LL UL LR UR UL UR LL UL LR UR
LL LR

P-Z Bypass
LED On =>
Bypass Mode

Input Relays
LED On =>
HV Amp Disconnected

HV ESD ON/OFF
LED On =>
Toggle Inactive

PI Quad.
Select
LED On =>
UR or UL

HV-LV Switches
LED On =>
LV Drive Mode



LIGO Bill of Materials

Source Data From: ETMLNDriverTest_v2.PrjPCB
Board Designed By: R. Abbott
Board D-number: D1500130
Board Revision: V2
Variant: None

Creation Date: 5/28/2015 11:05:01 AM
Print Date: 28-May-15 11:05:03 AM

Designator	Comment	Description	Digikey Part Number	Manufacturers Part Number	Quantity
D1, D2, D3	LED_5Bar	5 bar through hole LED	67-1202-ND	SSA-LXB525GD	3
J1	37 Pin D-Sub-MALE	37 Pin D-Sub	182-37ME-ND	182-037-113R531	1
Part1	1.5 meter M-F 37-Pin Dsub Cable	NON Board Stuffing Part	277-9202-ND		1
Part2, Part3, Part4, Part5	Rubber Foot	NON Board Stuffing Part	720K-ND		4
Part6, Part7, Part8, Part9	4-40 Pan Head Screw	NON Board Stuffing Part	335-1082-ND		4
Part10, Part11, Part12, Part13	#4 Steel Washer	NON Board Stuffing Part	5205820-3-ND		4
R1, R2	Bournes Resistor 8-Pack	Isolated Resistor Network	4816P-1-202LFCT-ND	4816P-1-202LF	2
SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10, SW11, SW12, SW13, SW14, SW15	SPST Switch	Board Mount DPDT Switch	EG4914-ND	200USP9T1A1M2RE	15
TP31, TP32, TP33	TESTPT	PCB Testpoint	5016KCT-ND		3
					37