



- S13<sup>(U5)</sup>  
DB15 Cable  
Digi-Key  
M7SXX-1506J-ND
- S13A jack screw  
Digi-Key  
A32020-ND  
S13B Socket  
Digi-Key  
MKC16A-ND  
S13C Strain Relief  
Digi-Key  
MKSRI6-ND
- S1 Cable Assembly  
S2 Cable Assembly  
S3 Cable Assembly  
S4 Cable Assembly  
Digi-Key  
M3DDA-1420K-ND  
S9/10 SMA cable  
S11/12 SMA cable  
Digi-Key  
ACX1582-ND
- H13 #6-32 3/8" flat  
H14 #6 standoff, 1/2"  
Digi-Key  
2210K-ND  
H15 ring terminal, #6  
Newark  
66H6940  
H16 #6-32 pan, locker, 1/4"  
PN1 Terminal turret  
Mouser  
534-1587-1

- H17 Handle, 1.25"  
H18 Handle, 1.25"  
Mouser  
534-9106  
H19 Ferrule  
H20 Ferrule  
H21 Ferrule  
H22 Ferrule  
Mouser  
534-9121  
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  
PN2 1U chassis  
LIGO  
D070012-A

- 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  
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  
PN3 Front Panel  
LIGO  
D1001201-v1

- E23 #4-40 3/16" flat  
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  
E29 #4-40 3/16" flat  
E30 #4-40 3/16" flat  
E31 #4-40 3/16" flat  
E32 #4-40 3/16" flat  
E33 #4-40 3/16" flat  
E34 #4-40 3/16" flat  
E35 #4-40 3/16" flat  
E36 #4-40 3/16" flat  
E37 #4-40 3/16" flat  
E38 #4-40 3/16" flat  
E39 #4-40 3/16" flat  
E40 #4-40 3/16" flat  
E41 #4-40 3/16" flat  
E42 #4-40 3/16" flat  
E43 #4-40 3/16" flat  
E44 #4-40 3/16" flat  
McMaster-Carr  
91771A111  
PN4 Rear Panel  
LIGO  
D1001202-v1

- E45BNC lock washer  
E46 BNC nut  
E47BNC lock washer  
E48 BNC nut  
E49BNC lock washer  
E50 BNC nut  
E51BNC lock washer  
E52 BNC nut  
E53BNC lock washer  
E54 BNC nut  
E55BNC lock washer  
E56 BNC nut  
E57BNC lock washer  
E58 BNC nut  
E59BNC lock washer  
Digi-Key  
A97567-ND  
E60 BNC nut  
Digi-Key  
A97566-ND  
S5-8 Cable AWG20  
Newark  
02F8164  
S5 Socket  
S6 Socket  
S7 Socket  
S8 Socket  
Digi-Key  
281-1244-ND

- E61 #6-32 1/4" flat  
E62 #6-32 1/4" flat  
E63 #6-32 1/4" flat  
E64 #6-32 1/4" flat  
E65 #6-32 1/4" flat  
H23 Heatsink  
H24 Heatsink  
H25 Heatsink  
H26 Heatsink  
Digi-Key  
294-1080-ND  
H27 #6-32 pan, locker, 1/4"  
H28 #6-32 pan, locker, 1/4"  
H29 #6-32 pan, locker, 1/4"  
H30 #6-32 pan, locker, 1/4"  
H31 #6-32 pan, locker, 1/4"  
H32 #6-32 pan, locker, 1/4"  
H33 #6-32 pan, locker, 1/4"  
H34 #6-32 pan, locker, 1/4"  
McMaster-Carr  
96909A444  
PN5 HV guard  
LIGO  
D1001205-v1  
E66 #4-40, 1/4" nylon  
E67 #4-40, 1/4" nylon  
E68 #4-40, 1/4" nylon  
E69 #4-40, 1/4" nylon  
Digi-Key  
H542-ND

- PN6 PA90  
PN7 PA90  
PN8 PA90  
PN9 PA90  
Digi-Key  
598-1330-ND  
PN10 Thermal pad  
PN11 Thermal pad  
PN12 Thermal pad  
PN13 Thermal pad  
Digi-Key  
598-1379-ND  
H35 #6-32 pan, locker, 1/4"  
H36 #6-32 pan, locker, 1/4"  
H37 #6-32 pan, locker, 1/4"  
H38 #6-32 pan, locker, 1/4"

- H39 Hex spacer 0.25", #6-32  
H40 Hex spacer 0.25", #6-32  
H41 Hex spacer 0.25", #6-32  
H42 Hex spacer 0.25", #6-32  
H43 Hex spacer 0.25", #6-32  
H44 Hex spacer 0.25", #6-32  
H45 Hex spacer 0.25", #6-32  
H46 Hex spacer 0.25", #6-32  
Digi-Key  
1903AK-ND  
H47 #6-32 pan, locker, 1/4"  
H48 #6-32 pan, locker, 1/4"  
H49 #6-32 pan, locker, 1/4"  
H50 #6-32 pan, locker, 1/4"  
H51 #6-32 pan, locker, 1/4"  
H52 #6-32 pan, locker, 1/4"  
H53 #6-32 pan, locker, 1/4"  
H54 #6-32 pan, locker, 1/4"

Use the spacers in the rear of the PZT Driver boards to prevent it from touching the bottom.  
Mount high voltage guard using stand-offs and nylon screws. A nylon washer is required under 3 stand-offs.  
Add a 150ohm resistor to LED to prevent over voltage.  
Terminate single-sided D-sub cable with socket connector.  
Cut SMA cable, adjust length and mount to SHV bulkhead.  
Use ring terminal to connect SHV ground to chassis (use stand-off).  
Mount PA90/PA91/PA98 to front panel using thermal pad and pan screw.  
Mount heatsink to front panel using thermal grease and pan screws.

Title <b>PZT Driver</b>		
Size B	Number <b>D1001200</b>	Revision <b>1</b>
Date:	5/18/2010	Sheet 1 of 1
File:	C:\Users\...\PZTDriver1.SchDoc	Drawn By: Daniel Sigg