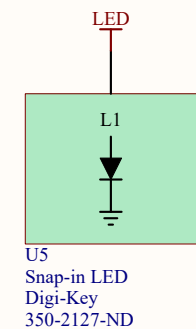
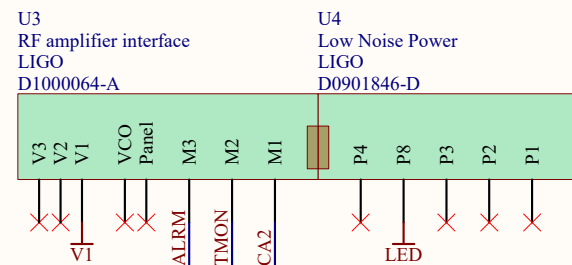


A1
SMA 0dB attenuator
Pasternack
PE9103

A1
SMA male-male
Pasternack
PE9069



- CA1 SMA cable 12"
EAM
SMA cable 12"; S-RA
- CA2 SMA cable 6"
EAM
SMA cable 6"; S-RA
- CA3 SMA cable 6"
EAM
SMA cable 6"; S-RA
- H3 #2-56 flat head, 3/8"
H4 #2-56 flat head, 3/8"
H5 #2-56 flat head, 3/8"
H6 #2-56 flat head, 3/8"
McMaster-Carr
91771A105
- H7 #6-32 pan, lock washer, 5/16"
H8 #6-32 pan, lock washer, 5/16"
H9 #6-32 pan, lock washer, 5/16"
H10 #6-32 pan, lock washer, 5/16"
H11 #6-32 pan, lock washer, 5/16"
H12 #6-32 pan, lock washer, 5/16"
H13 #6-32 pan, lock washer, 5/16"
H14 #6-32 pan, lock washer, 5/16"
H15 #6-32 pan, lock washer, 5/16"
McMaster-Carr
93405A145
- H1 SMA Male Connector
H2 SMA Male Connector
Pasternack
PE45139
- E1 #4-40 3/16" flat
E2 #4-40 3/16" flat
McMaster-Carr
91771A111
E3 #6-32 1/4" flat
E4 #6-32 1/4" flat
E5 #6-32 1/4" flat
E6 BNC lock washer
E7 BNC nut
E8 BNC lock washer
E9 BNC nut
E10 BNC lock washer
E11 BNC nut
E12 BNC insulating bushing
E13 BNC insulating bushing
E14 BNC insulating bushing
E15 BNC insulating bushing
E16 BNC insulating bushing
E17 BNC insulating bushing
E18 BNC insulating bushing
E19 BNC insulating bushing
Digi-Key
A24479-ND
- 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 Cable, 1 pair, shielded
Mouser
566-9501-100
EXCEN cable
- PN1 Mounting Plate
LIGO
D1700478-v1
- PN3 1U chassis
LIGO
D1001098-v1
- PN4 Front Panel
LIGO
D1700476-v1
- PN5 Rear Panel
LIGO
D1700477-v1
- H16 Handle, 1.25"
H17 Handle, 1.25"
Mouser
534-9106
H18 Ferrule
H19 Ferrule
H20 Ferrule
H21 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
- E20 #4-40 3/16" flat
E21 #4-40 3/16" flat
E22 #4-40 3/16" flat
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
E45 #4-40 3/16" flat
E46 #4-40 3/16" flat
E47 #4-40 3/16" flat
E48 #4-40 3/16" flat
E49 #4-40 3/16" flat
E50 #4-40 3/16" flat
E51 #4-40 3/16" flat
E52 #4-40 3/16" flat
E53 #4-40 3/16" flat
E54 #4-40 3/16" flat
E55 #4-40 3/16" flat
E56 #4-40 3/16" flat
E57 #4-40 3/16" flat
E58 #4-40 3/16" flat
E59 #4-40 3/16" flat
E60 #4-40 3/16" flat
E61 #4-40 3/16" flat
E62 #4-40 3/16" flat
E63 #4-40 3/16" flat

RF modules need to be mounted on mounting plate.

Cables CA1 to CA3 are flexible semi-rigid RG405.
Cables require SMA connectors on both ends. Red dot marks R/A connector.

Cables V1 is twisted pair and soldered to the amplifier.
Solder 10nF across each power terminal.

Remove RF detector on channels 2 and 3 from D1000064.
Remove R11B, R11C, R13N and R13C. Replace R12B and R12C with 0 Ohm.
Use SMA male connector and wire to connect ALRM and TMON.

The position A1 at the inside of J1 is used to adjust power levels by adding a fixed attenuators:
Pasternack PE7161/PE7001 instead of PE9103, or Mini-Circuits BW-SxW2+ series.

CA1: L=12", Belden 1671A with SMA Male and SMA Male
CA2/CA3: L=6", Belden 1671A with SMA Male and SMA Male

Title Fixed Ratio Frequency Source		
Size B	Number D1700475	Revision 1
Date: 10/5/2017	Sheet 1 of 1	
File: D:\Users\...\FixedRatioFrequencySource1	Drawn By: Daniel Sigg	