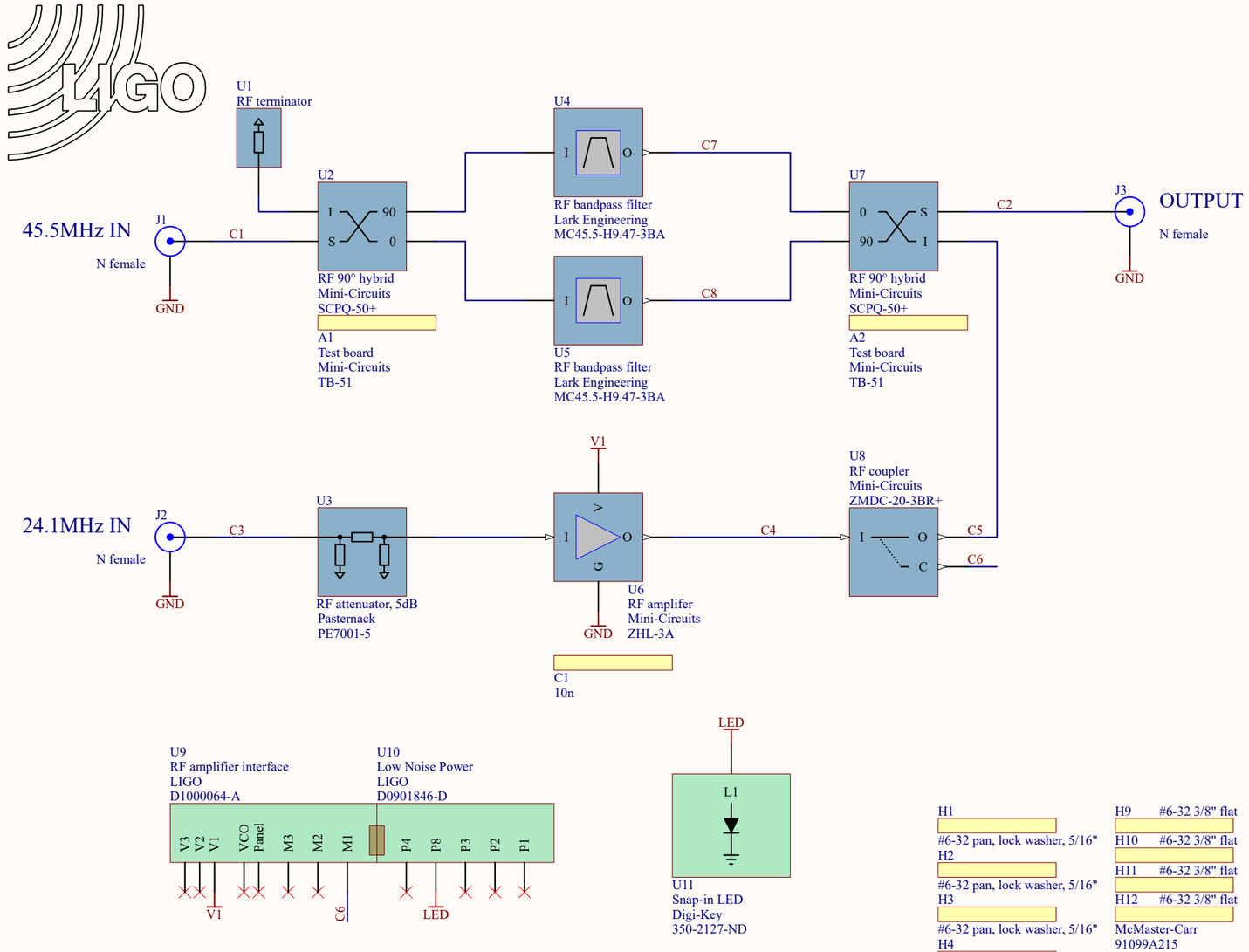

RF modules need to be mounted on mounting plate.

Cables C1 to C8 are hand formable .086 or flexible semi-rigid RG405, e.g., Belden 1671A.
Cables require SMA connectors on both ends.
C2 is straight/straight, all others are straight/RA.

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

CA1 SMA cable 7"
EAM
custom
CA2 SMA cable 13
EAM
custom
CA3 SMA cable 7"
EAM
custom
CA4 SMA cable 7"
EAM
custom
CA5 SMA cable 10"
EAM
custom
CA6 SMA cable 7"
EAM
custom
CA7 SMA cable 7"
EAM
custom
CA8 SMA cable 7"
EAM
custom

PN1
2U chassis
LIGO
D0900200-v1

PN2
Mounting Plate
LIGO
D1800119-v2

PN3
Cable, 1 pair, shielded
Mouser
566-9501-100

PN4
Front Panel
LIGO
D1800117-v1

PN5
Rear Panel
LIGO
D1800118-v1

E9 #6-32 1/4" flat
E10 #6-32 1/4" flat
E11 #6-32 1/4" flat
E12 BNC lock washer
E13 BNC nut
E14 BNC lock washer
E15 BNC nut
E16 BNC lock washer
E17 BNC nut

H33 Handle, 3"
H34 Handle, 3"
Mouser
534-9109
H35 Ferrule
H36 Ferrule
H37 Ferrule
H38 Ferrule
Mouser
534-9121
H39 #6-32 1/4" flat
H40 #6-32 1/4" flat
H41 #6-32 1/4" flat
H42 #6-32 1/4" flat
H43 #6-32 1/4" flat
H44 #6-32 1/4" flat
McMaster-Carr
91099A205
H45 #6-32 3/8" flat
H46 #6-32 3/8" flat
H47 #6-32 3/8" flat
H48 #6-32 3/8" flat
McMaster-Carr
91099A215

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
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

H1
#6-32 pan, lock washer, 5/16"
H2
#6-32 pan, lock washer, 5/16"
H3
#6-32 pan, lock washer, 5/16"
H4
#6-32 pan, lock washer, 5/16"
H5
#6-32 pan, lock washer, 5/16"
H6
#6-32 pan, lock washer, 5/16"
H7
#6-32 pan, lock washer, 5/16"
H8
#6-32 pan, lock washer, 5/16"
McMaster-Carr
93405A145

H9 #6-32 3/8" flat
H10 #6-32 3/8" flat
H11 #6-32 3/8" flat
H12 #6-32 3/8" flat
McMaster-Carr
91099A215
H13 #6-32 nut
H14 #6-32 nut
H15 #6-32 nut
H16 #6-32 nut
McMaster-Carr
91841A007
H17 #6 washer
H18 #6 washer
H19 #6 washer
H20 #6 washer
McMaster-Carr
92141A008

H21 #6-32 3/8" flat
H22 #6-32 3/8" flat
H23 #6-32 3/8" flat
H24 #6-32 3/8" flat
McMaster-Carr
91099A215
H25 #6-32 nut
H26 #6-32 nut
H27 #6-32 nut
H28 #6-32 nut
McMaster-Carr
91841A007
H29 #6 washer
H30 #6 washer
H31 #6 washer
H32 #6 washer
McMaster-Carr
92141A008

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
McMaster-Carr
91099A155

Title: RF Combiner Amplifer		
Size: B	Number: D1800116	Revision: 1
Date: 5/24/2018	Sheet 1 of 1	
File: D:\Users\..\RFCombinerAmplifier1.SchDoc	Drawn By: Daniel Sigg	