



RF Amplifer

- M1 #6-32 3/8" flat
- M2 #6-32 3/8" flat
- M3 #6-32 3/8" flat
- M4 #6-32 3/8" flat

- H1 #6 nut
- H2 #6 nut
- H3 #6 nut
- H4 #6 nut
- McMaster-Carr 90480A007
- H5 #6 lock washer
- H6 #6 lock washer
- H7 #6 lock washer
- H8 #6 lock washer
- McMaster-Carr 91113A007

- PN3 Thermal pad
- PN4 Thermal pad
- Digi-Key BER233-ND

PN1 Connector SMA
Digi-Key ACX1177-ND

PN2 Connector SMA, R/A
Digi-Key ACX1181-ND

C2 cable

PN5 Connector SMA
Digi-Key ACX1177-ND

PN6 Connector SMA, R/A
Digi-Key ACX1181-ND

C3 cable

Heatsink

- E1 #8-32 standoff, 1"
- E2 #8-32 standoff, 1"
- E3 #8-32 standoff, 1"
- E4 #8-32 standoff, 1"

- McMaster-Carr 91125A220
- M5 #8-32 5/8", flat
- M6 #8-32 5/8", flat
- M7 #8-32 5/8", flat
- M8 #8-32 5/8", flat
- McMaster-Carr 92210A194

- M9 #8-32 5/8", cap
- M10 #8-32 5/8", cap
- M11 #8-32 5/8", cap
- M12 #8-32 5/8", cap
- McMaster-Carr 92949A196

- E5 #8, lock washer
- E6 #8, lock washer
- E7 #8, lock washer
- E8 #8, lock washer
- McMaster-Carr 91757A105

- PN7 Heatsink
- Wakefield 512-3M

PN8 Wire, 20AWG, black
Newark 02F4505

PN9 Wire, 20AWG, red
Newark 87K2782

V1 cable

Rack Mounting

- H9 Handle, 3"
- H10 Handle, 3"
- Mouser 534-9109

- H11 Ferrule
- H12 Ferrule
- H13 Ferrule
- H14 Ferrule
- Mouser 534-9121

- M13 #6-32 1/4" flat
- M14 #6-32 1/4" flat
- M15 #6-32 1/4" flat
- M16 #6-32 1/4" flat
- M17 #6-32 1/4" flat
- M18 #6-32 1/4" flat

- McMaster-Carr 91099A205
- M19 #6-32 3/8" flat
- M20 #6-32 3/8" flat
- M21 #6-32 3/8" flat
- M22 #6-32 3/8" flat
- McMaster-Carr 91099A215

Front Panel

- PN11 Power pin, AWG 16-20
- PN12 Power pin, AWG 16-20
- Digi-Key 626-1140-ND
- PN13 Power socket, AWG 16-20
- Digi-Key 626-1144-ND
- PN14 D-sub shell, 3W3C
- Digi-Key 626-1098-ND
- PN15 Jack screw
- Newark 80K5431

- PN16 Front Panel
- LIGO D1700018-v1

Delrin inserts

- M23 #4-40 1/4" flat
- M24 #4-40 1/4" flat
- M25 #4-40 1/4" flat
- M26 #4-40 1/4" flat

- McMaster-Carr 91099A155
- M27 #4 nut
- M28 #4 nut
- M29 #4 nut
- M30 #4 nut

- McMaster-Carr 90480A005
- M31 #4 lock washer
- M32 #4 lock washer
- M33 #4 lock washer
- M34 #4 lock washer
- McMaster-Carr 91113A005

- PN17 Delrin N insert
- LIGO D1700019-v1

- M35 #4-40 1/4" flat
- M36 #4-40 1/4" flat
- M37 #4-40 1/4" flat
- M38 #4-40 1/4" flat

- McMaster-Carr 91099A155
- M39 #4 nut
- M40 #4 nut
- M41 #4 nut
- M42 #4 nut

- McMaster-Carr 90480A005
- M43 #4 lock washer
- M44 #4 lock washer
- M45 #4 lock washer
- M46 #4 lock washer
- McMaster-Carr 91113A005

- PN18 Delrin N insert

Assembly instructions:

- Mount the N feedthroughs using the Delrin inserts.
- Mount D-sub 3W3 connector and LED.
- Mount RF amplifier on the outside and fit cables C1 and C2. Solder cable V1 between amplifier, the D-sub 3W3.
- Solder the LED leads of the D-sub 3W3.
- Attach stand-offs for heatsink.
- Mount heatsink to rear using thermal pads, both below and above.

Make sure output load is connected before turning driver on!

Title 2W RF Amplifier		
Size B	Number D1700006	Revision 1
Date: 1/19/2017	Sheet 1 of 1	
File: C:\Users\...\RF2WAmplifier1.SchDoc	Drawn By: Daniel Sigg	