

- E1 #6-32 1/4" flat
- E2 #6-32 1/4" flat
- H30 #4-40 pan, 3/16"
- H31 #4-40 pan, 3/16"
- McMaster-Carr 90272A105
- H32 #4 lock washer
- H33 #4 lock washer
- McMaster-Carr 91113A005
- CA1 SMA cable 10"
- Digi-Key 744-1428-ND
- CA2 SMA cable 6"
- Digi-Key 744-1376-ND
- CA3 SMA cable 10"
- Digi-Key 744-1428-ND
- CA4 SMA cable 6"
- Digi-Key 744-1376-ND
- V1 cables
- PN1 Cable, 1 pair, shielded Mouser 566-9501-100
- H36 Handle, 1.25"
- H37 Handle, 1.25"
- Mouser 534-9106
- H38 Ferrule
- H39 Ferrule
- H40 Ferrule
- H41 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
- 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
- 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

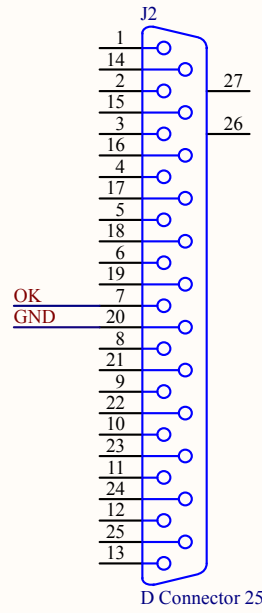
RF modules need to be mounted on mounting plate.

Cables C1 to C4 are flexible semi-rigid RG405.
Cables require SMA connectors on both ends. Red dot marks R/A connector.

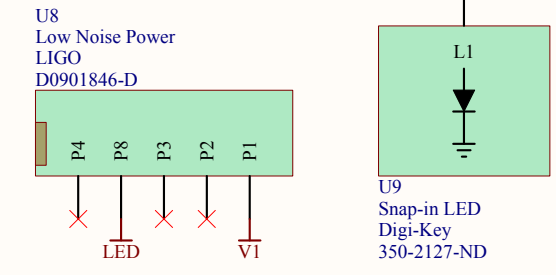
Cables V1 are twisted pair and soldered to the amplifier.
Solder 10nF across each power terminal.

C1/C3: L=10", Belden 1671A with SMA Male and SMA Male
C2/C4: L=6", Belden 1671A with SMA Male and SMA Male

For OK/GND use a twisted pair and solder it to pins 7/20 on the D-sub and to the back side of U3 at testpoints TP14 and TP10, respectively.



- 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 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" McMaster-Carr 93405A145
- H15 #6-32 pan, lock washer, 5/16"
- H16 #4-40 pan, lock washer, 1/4"
- H17 #4-40 pan, lock washer, 1/4"
- H18 #4-40 pan, lock washer, 1/4"
- H19 #4-40 pan, lock washer, 1/4"
- H20 #4-40 pan, lock washer, 1/4"
- H21 #4-40 pan, lock washer, 1/4"
- H22 #4-40 pan, lock washer, 1/4"
- H23 #4-40 pan, lock washer, 1/4"
- H24 #4-40 pan, lock washer, 1/4"
- H25 #4-40 pan, lock washer, 1/4"
- H26 #4-40 pan, lock washer, 1/4"
- H27 #4-40 pan, lock washer, 1/4"
- H28 #4-40 pan, lock washer, 1/4" McMaster-Carr 93405A106
- H29 #2-56 pan, lock washer, 1/4"
- H34 #2 washer
- H35 #2 washer
- H36 #2 washer McMaster-Carr 90126A501
- H37 #2 washer
- H38 #2 washer
- H39 #2 washer
- H40 #2 washer
- H41 #2 washer
- H42 #2 washer
- H43 #2 washer
- H44 #2 washer
- H45 #2 washer
- H46 #2 washer



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| Title | | |
| RF Diplexer High-Gain Amplifier | | |
| Size | Number | Revision |
| B | D1300989 | 1 |
| Date: | 1/15/2014 | Sheet 1 of 1 |
| File: | D:\Users\...\RFDiplexerAmplifier1.SchDoc Drawn By: Daniel Sigg | |