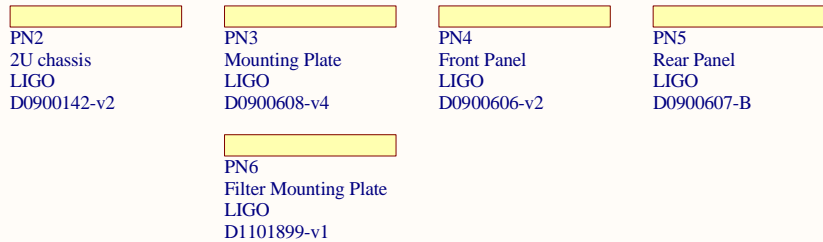
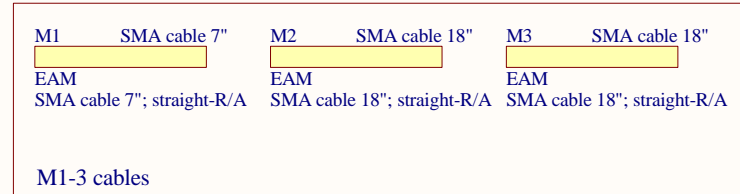
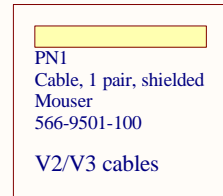
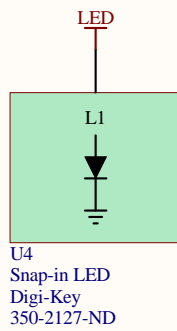


RF modules need to be mounted on mounting plate.

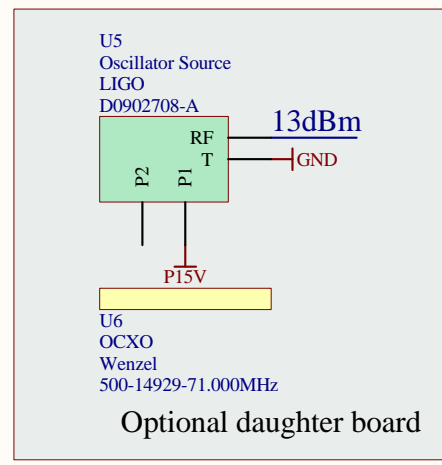
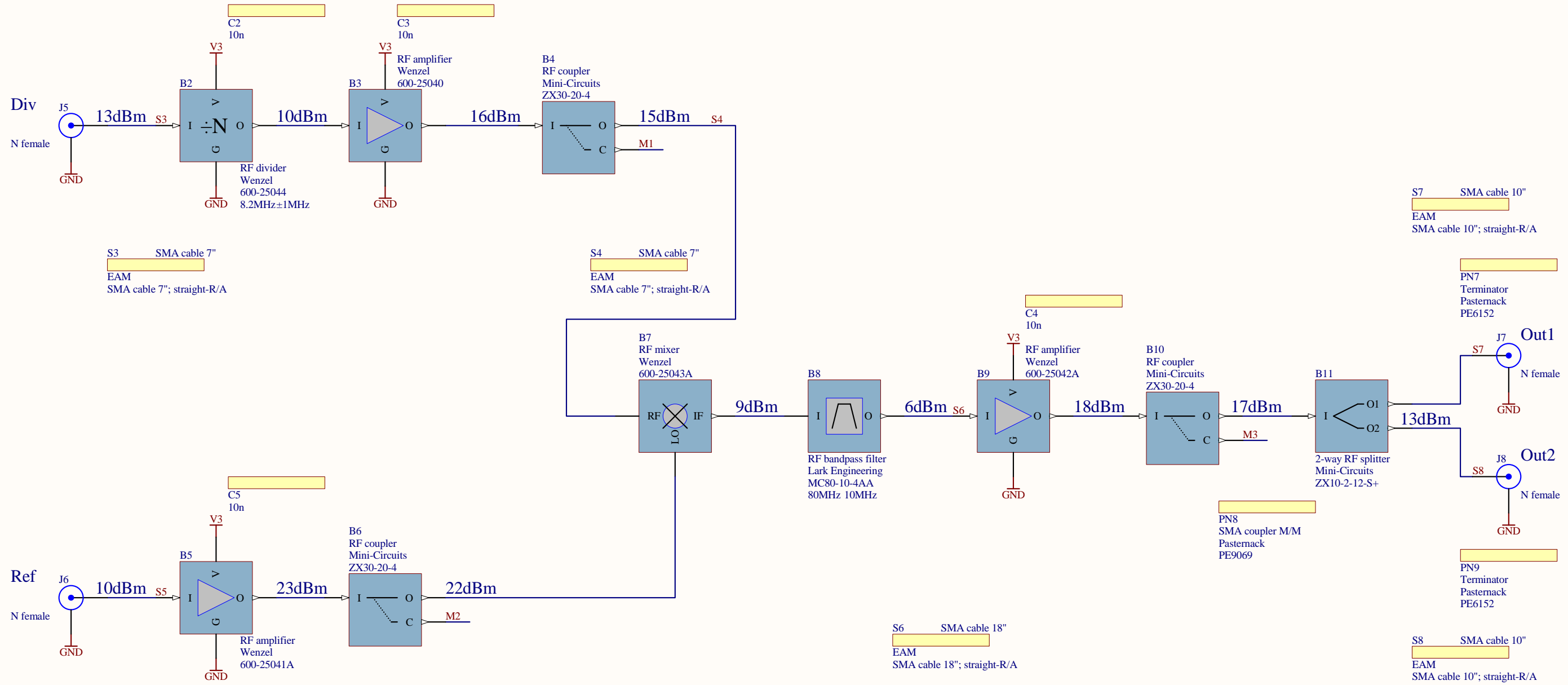
Cable W4 is 34-pin twisted-pair flat-ribbon.

Cables for V2 and V3 are twisted pair and soldered to the amplifiers.  
Solder a 10nF capacitor across each power terminal.

Adjust power levels by adding attenuators values before B9:  
Pasternack PE7161/PE7001.



Title <b>Low Noise VCO</b>		
Size B	Number <b>D0900605</b>	Revision <b>2</b>
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- E1 standoff, 1", f/m
- Digi-Key 8405K-ND
- E2 standoff, 1", f/m
- E3 standoff, 1", f/m
- E4 standoff, 1", f/m

Title <b>Frequency Difference Divider</b>		
Size B	Number <b>D0900605</b>	Revision <b>2</b>
Date: 10/11/2011	Sheet 2 of 3	
File: C:\Users\...\VCO2.SchDoc	Drawn By: Daniel Sigg	

H1	Handle, 3"	E5	#4-40 3/16" flat	E6	#4-40 3/16" flat
H2	Handle, 3"	E7	#4-40 3/16" flat	E8	#4-40 3/16" flat
Mouser		E9	#4-40 3/16" flat	E10	#4-40 3/16" flat
534-9109		E11	#4-40 3/16" flat	E12	#4-40 3/16" flat
H11	Ferrule	E13	#4-40 3/16" flat	E14	#4-40 3/16" flat
H12	Ferrule	E15	#4-40 3/16" flat	E16	#4-40 3/16" flat
H21	Ferrule	E17	#4-40 3/16" flat	E18	#4-40 3/16" flat
H30	Ferrule	E19	#4-40 3/16" flat	E20	#4-40 3/16" flat
Mouser		E21	#4-40 3/16" flat	E22	#4-40 3/16" flat
534-9121		E23	#4-40 3/16" flat	E24	#4-40 3/16" flat
H46	#6-32 1/4" flat	E25	#4-40 3/16" flat	E26	#4-40 3/16" flat
H55	#6-32 1/4" flat	E27	#4-40 3/16" flat	E28	#4-40 3/16" flat
H64	#6-32 1/4" flat	E29	#4-40 3/16" flat	E30	#4-40 3/16" flat
H73	#6-32 1/4" flat	E31	#4-40 3/16" flat	E32	#4-40 3/16" flat
H77	#6-32 1/4" flat	E33	#4-40 3/16" flat	E34	#4-40 3/16" flat
H80	#6-32 1/4" flat	E35	#4-40 3/16" flat	E36	#4-40 3/16" flat
McMaster-Carr		E37	#4-40 3/16" flat	E38	#4-40 3/16" flat
91099A205		E39	#4-40 3/16" flat	E40	#4-40 3/16" flat
H85	#6-32 3/8" flat	E41	#4-40 3/16" flat	E42	#4-40 3/16" flat
H88	#6-32 3/8" flat	E43	#4-40 3/16" flat	E44	#4-40 3/16" flat
H91	#6-32 3/8" flat	E45	#4-40 3/16" flat	E46	#4-40 3/16" flat
H94	#6-32 3/8" flat	E47	#4-40 3/16" flat	E48	#4-40 3/16" flat
McMaster-Carr					
91099A215					

Enclosure

H3	#2-56 flat head, 3/8" McMaster-Carr 91771A105	H4	#2-56 pan head, 1/4" McMaster-Carr 90272A077	H5	#0-80 flat head, 1/4" McMaster-Carr 91771A055
H13	#2-56 flat head, 3/8"	H14	#2-56 pan head, 1/4"	H15	#0-80 flat head, 1/4"
H22	#2-56 flat head, 3/8"	H23	#2-56 pan head, 1/4"	H24	#0-80 flat head, 1/4"
H31	#2-56 flat head, 3/8"	H32	#2-56 pan head, 1/4"	H33	#0-80 flat head, 1/4"
H39	#2-56 flat head, 3/8"	H40	#2-56 pan head, 1/4"		
H47	#2-56 flat head, 3/8"	H48	#2-56 pan head, 1/4"	H49	#2-56 pan head, 1/4"
H56	#2-56 flat head, 3/8"	H57	#2-56 pan head, 1/4"	H58	#2-56 pan head, 1/4"
H65	#2-56 flat head, 3/8"	H66	#2-56 pan head, 1/4"	H67	#2-56 pan head, 1/4"
H74	#2-56 flat head, 3/8"			H75	#2-56 pan head, 1/4"
H78	#2-56 flat head, 3/8"				
H81	#2-56 flat head, 3/8"				
H83	#2-56 flat head, 3/8"				
H86	#2-56 flat head, 3/8"				
H89	#2-56 flat head, 3/8"				
H92	#2-56 flat head, 3/8"				
H95	#2-56 flat head, 3/8"				

Wenzel/Filter

H6	M2.5 pan head, 8mm McMaster-Carr 92005A069	H7	M2.5 washer McMaster-Carr 93475A196	H8	M2.5 lock washer McMaster-Carr 93925A220	H9	M2.5 nut McMaster-Carr 90591A113	H10	#4 washer, 62mil McMaster-Carr 98370A005
H16	M2.5 pan head, 8mm	H17	M2.5 washer	H18	M2.5 lock washer	H19	M2.5 nut	H20	#4 washer, 62mil
H25	M2.5 pan head, 8mm	H26	M2.5 washer	H27	M2.5 lock washer	H28	M2.5 nut	H29	#4 washer, 62mil
H34	M2.5 pan head, 8mm	H35	M2.5 washer	H36	M2.5 lock washer	H37	M2.5 nut	H38	#4 washer, 62mil
H41	M2.5 pan head, 8mm	H42	M2.5 washer	H43	M2.5 lock washer	H44	M2.5 nut	H45	#4 washer, 62mil
H50	M2.5 pan head, 8mm	H51	M2.5 washer	H52	M2.5 lock washer	H53	M2.5 nut	H54	#4 washer, 62mil
H59	M2.5 pan head, 8mm	H60	M2.5 washer	H61	M2.5 lock washer	H62	M2.5 nut	H63	#4 washer, 62mil
H68	M2.5 pan head, 8mm	H69	M2.5 washer	H70	M2.5 lock washer	H71	M2.5 nut	H72	#4 washer, 62mil
		H76	M2.5 washer						
		H79	M2.5 washer						
		H82	M2.5 washer						
		H84	M2.5 washer						
		H87	M2.5 washer						
		H90	M2.5 washer						
		H93	M2.5 washer						
		H96	M2.5 washer						

Couplers/Splitter

H97	#6-32 pan, lock washer, 5/16" McMaster-Carr 96909A445	E49	#6-32 1/4" flat	E50	#6-32 1/4" flat	E51	#6-32 1/4" flat	E52	#6-32 1/4" flat
H98	#6-32 pan, lock washer, 5/16"								
H99	#6-32 pan, lock washer, 5/16"								
H100	#6-32 pan, lock washer, 5/16"								
H101	#6-32 pan, lock washer, 5/16"								
H102	#6-32 pan, lock washer, 5/16"								
H103	#6-32 pan, lock washer, 5/16"								
H104	#6-32 pan, lock washer, 5/16"								
H105	#6-32 pan, lock washer, 5/16"								
E53	BNC lock washer								
E54	BNC nut								
E55	BNC lock washer								
E56	BNC nut								
E57	BNC lock washer								
E58	BNC nut								

Base plate/PCBs

Title			
<b>Mounting Hardware</b>			
Size	Number	Revision	
B	<b>D0900605</b>	<b>2</b>	
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