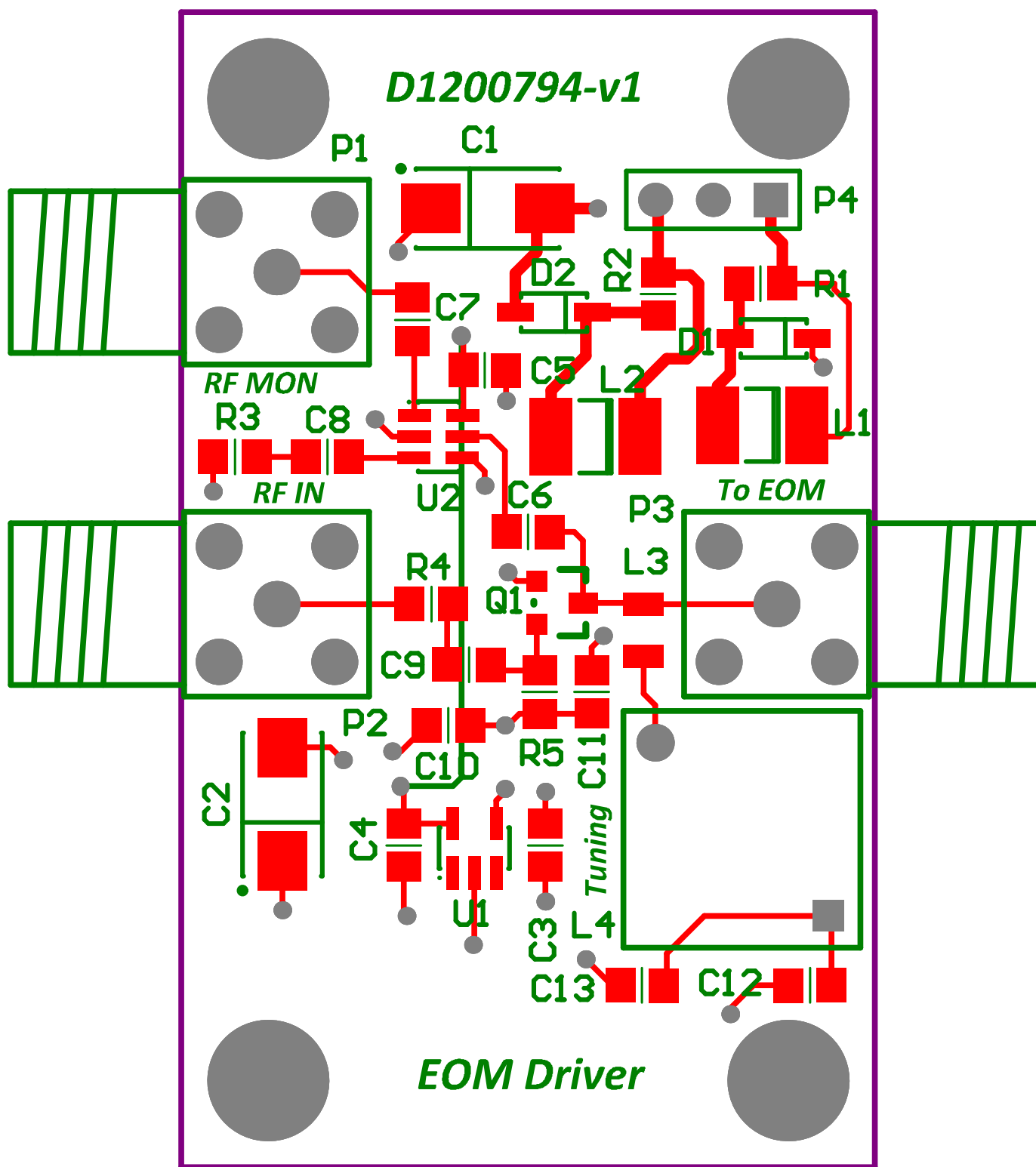


Tested prototype to have gain of:
 30 volts peak to peak out for 0.15 volts peak to peak in
 at 20 something MHz

L3 should be adjusted in value to be within the tuning
 range of L4 at the desired operating frequency. The
 connection between P1 and the target EOM must be
 short and the reactance of this transmission line
 becomes part of the tuned circuit

Last Edited: 31 May 2012

Title EOM Driver		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO
Size: A	DCC Number: D1200794	Revision: v1	Engineer: R. Abbott	
File: C:\Rich's Files\Mycadfiles\Misc\EOM_Driver\EOM.SchDoc			Date: 5/31/2012	Time: 11:07:23 AM
				Sheet 1 of 1



Comment	Designator	Digikey Part Number	Footprint	Quantity	Supplier Part Number 1
10uF	C1, C2	478-1701-1-ND	TC6032-2412	2	
1uF	C3, C4, C11, C13	PCC102CGCT-ND	2012[0805]	4	
10nF	C5, C7, C8, C9, C10, C12	490-1664-1-ND	2012[0805]	6	
1pF	C6	399-1104-1-ND	2012[0805]	1	
60V, 1A Schottky	D1, D2	RB160M-60CT-ND	sod123	2	
10uH	L1, L2	495-1754-1-ND	1812	2	
270nH	L3		2520	1	1008CS-271XJ
1.4uH Coilcraft Tunable	L4		Coilcraft 10mm Tunable	1	143-20J12L
SMA RT Angle	P1, P2, P3	J569-ND	MY_SMA4	3	
3 Pin Molex RT Angle	P4	WM5236-ND	HDR1X3	1	
HF Transistor MMBT5551	Q1	MMBT5551-FDICT-ND	SOT-23	1	
49.9 ohms	R1, R2, R3, R4	311-49.9BCT-ND	2012[0805]	4	
2.87K	R5	P2.87KDACT-ND	2012[0805]	1	
5V Regulator	U1	296-18037-1-ND	SOT23-5	1	
RF Buffer	U2	MAX2470EUT+TCT-ND	SOT23-6	1	