

Partlist

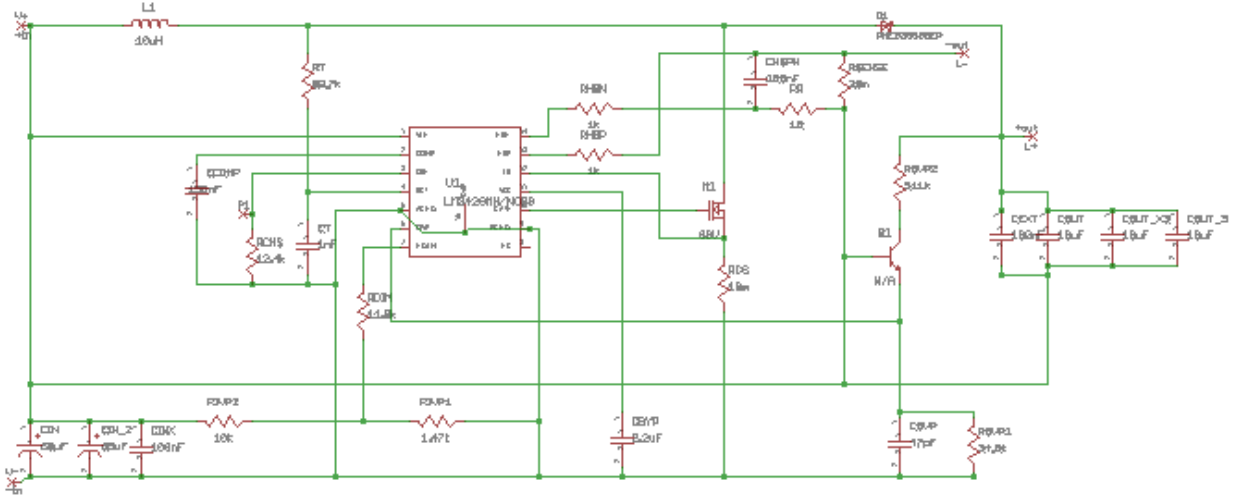
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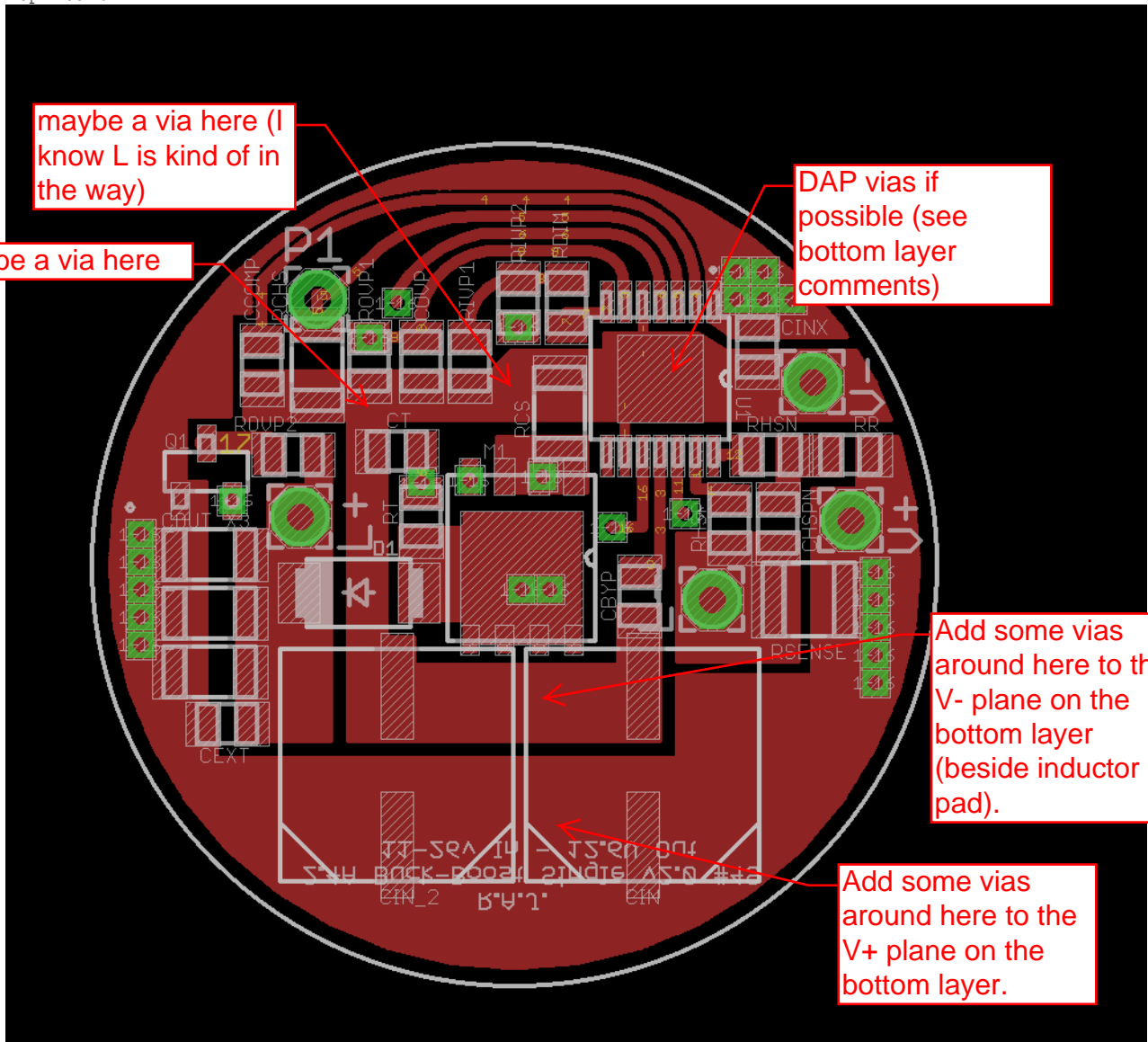
Assembly variant:

Part	Value	Package	Library	Position (mil)	Orientation
CBYP	2.2uF	0805	AcceleratedDesigns_Lib	(780 555)	R270
CCOMP	150nF	0805	AcceleratedDesigns_Lib	(235 890)	R270
CEXT	100nF	0805	AcceleratedDesigns_Lib	(185 370)	R180
CHSPN	100nF	0805	AcceleratedDesigns_Lib	(980 660)	R90
CIN	68uF	SM_RADIAL_8MM	AcceleratedDesigns_Lib	(785 310)	R90
CINX	100nF	0805	AcceleratedDesigns_Lib	(950 915)	R270
CIN_2	68uF	SM_RADIAL_8MM	AcceleratedDesigns_Lib	(430 310)	R90
COUT	10uF	1206_180	AcceleratedDesigns_Lib	(160 445)	R180
COUT_3	10uF	1206_180	AcceleratedDesigns_Lib	(160 530)	R180
COUT_X3	10uF	1206_180	AcceleratedDesigns_Lib	(160 615)	R180
COVP	47pF	0805	AcceleratedDesigns_Lib	(465 895)	R270
CT	1nF	0805	AcceleratedDesigns_Lib	(430 765)	R180
D1	PMEG3050BEP	SOD128	nxp_60	(375 560)	R0
L+	+out	2,15/1,0	wirepad	(290 670)	R270
L-	-out	2,15/1,0	wirepad	(885 550)	R90
L1	10uH	WE-HCB-18X8.9	V2 no 49_1	(610 610)	MR270
M1	80V	PG-TDSON-8	BSC	(610 610)	R270
P1		2,15/1,0	wirepad	(315 985)	R0
Q1	N/A	SOT-23	V2_01	(155 735)	R0
RCHS	12.4k	1206	AcceleratedDesigns_Lib	(315 890)	R270
RCS	18m	1206_180	AcceleratedDesigns_Lib	(665 820)	R90
RDIM	11.8k	0805	AcceleratedDesigns_Lib	(675 980)	R90
RHSN	1k	0805	AcceleratedDesigns_Lib	(970 760)	R180
RHSP	1k	0805	AcceleratedDesigns_Lib	(910 660)	R90
RIVP1	1.47k	0805	AcceleratedDesigns_Lib	(535 895)	R270
RIVP2	10k	0805	AcceleratedDesigns_Lib	(605 980)	R90
ROVP1	34.8k	0805	AcceleratedDesigns_Lib	(390 895)	R270
ROVP2	511k	0805	AcceleratedDesigns_Lib	(280 760)	R180
RR	10	0805	AcceleratedDesigns_Lib	(1085 760)	R0
RSENSE	39m	1210	AcceleratedDesigns_Lib	(1025 550)	R0
RT	88.7k	0805	AcceleratedDesigns_Lib	(465 670)	R90
U1	LM3429MH/NOPB	MXA14A	LM3429-1	(810 870)	R270
V+	+in	2,15/1,0	wirepad	(1085 665)	R270
V-	-in	2,15/1,0	wirepad	(1030 865)	R270

Schematic

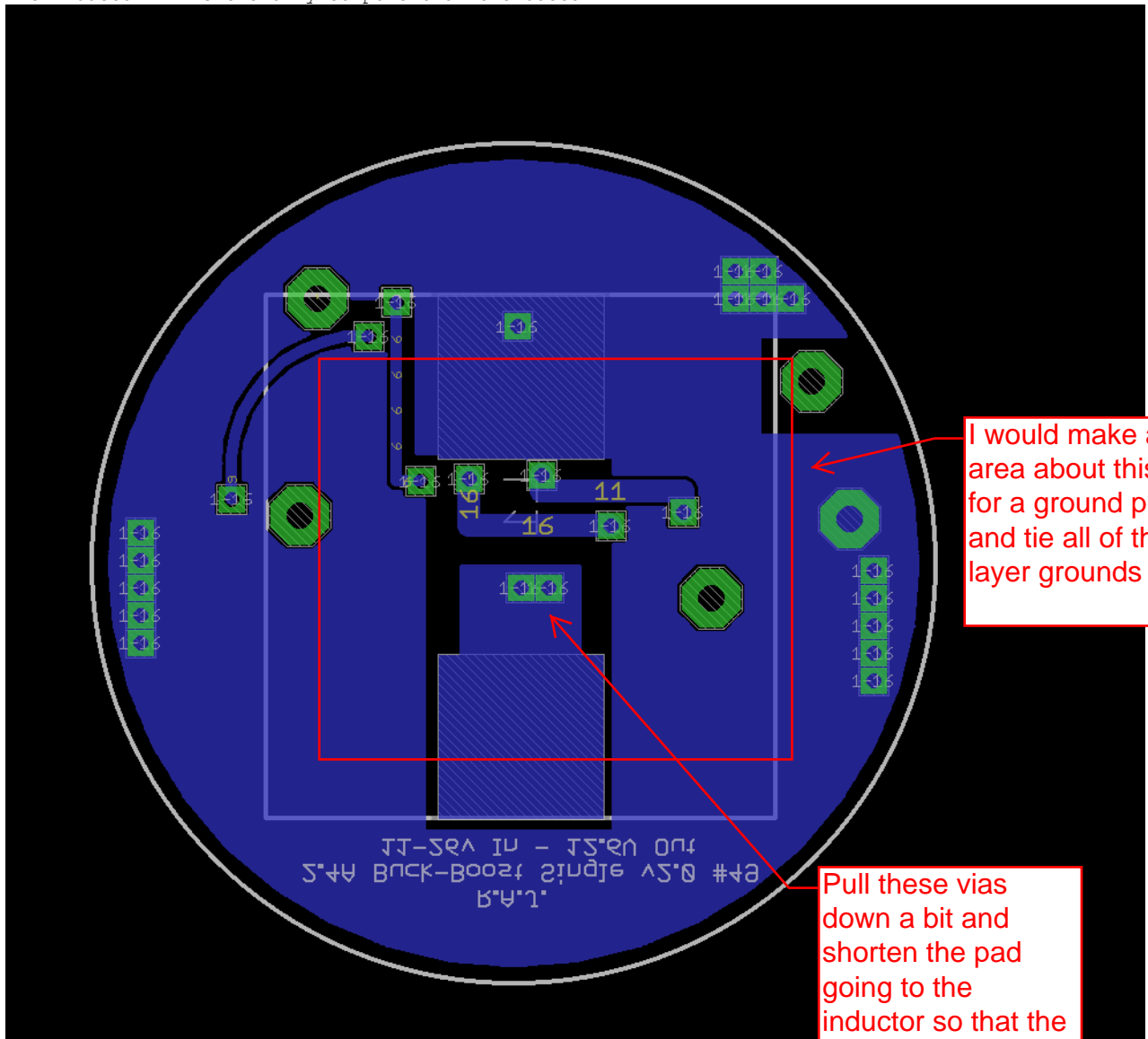


Top Board



Bottom Board

The inductor L1 is the only component on the bottom



I would make an area about this size for a ground plane and tie all of the top layer grounds to it.

Pull these vias down a bit and shorten the pad going to the inductor so that the ground plane can fill between the inductor pads.

This image is both top and bottom layers

