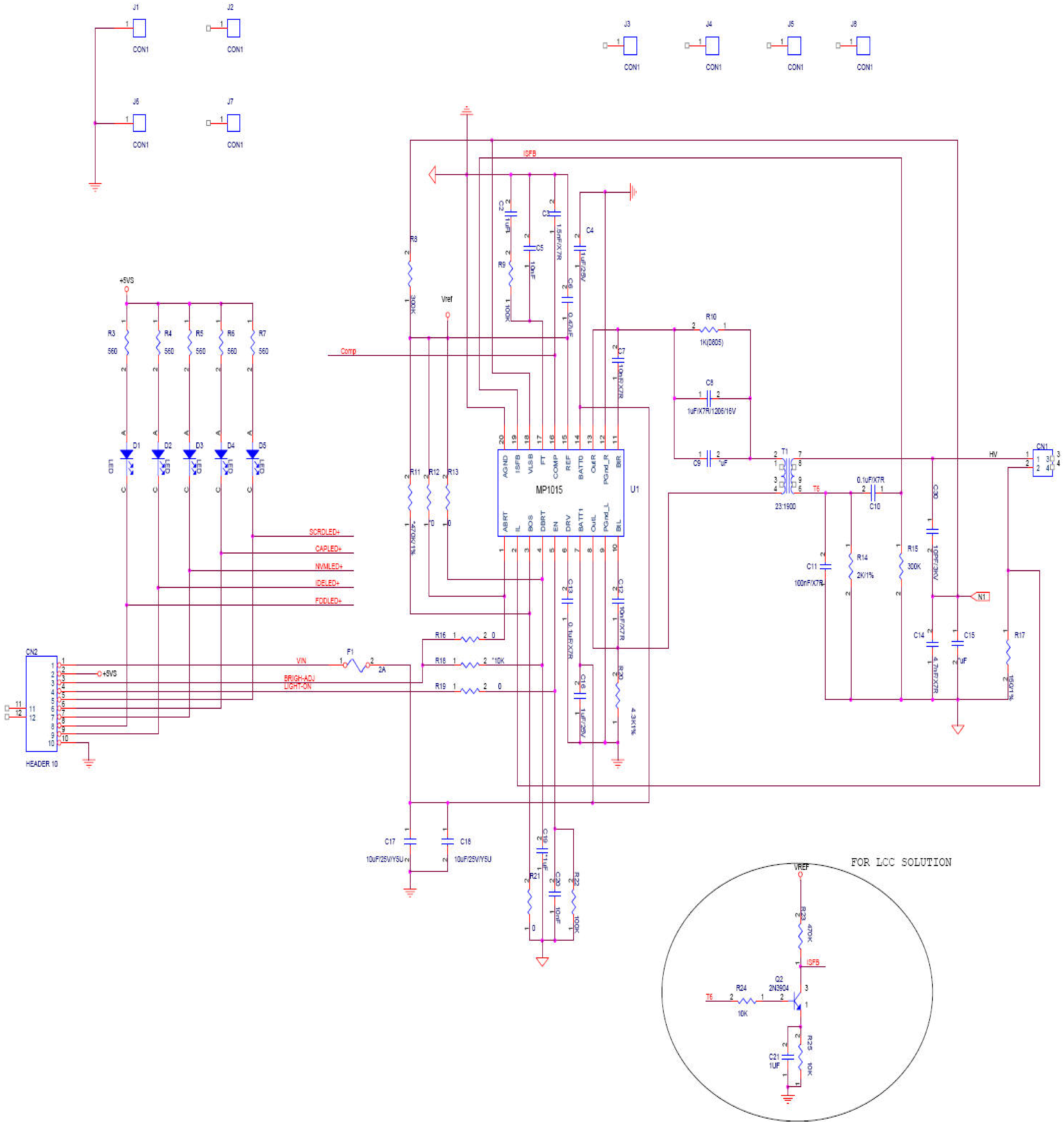
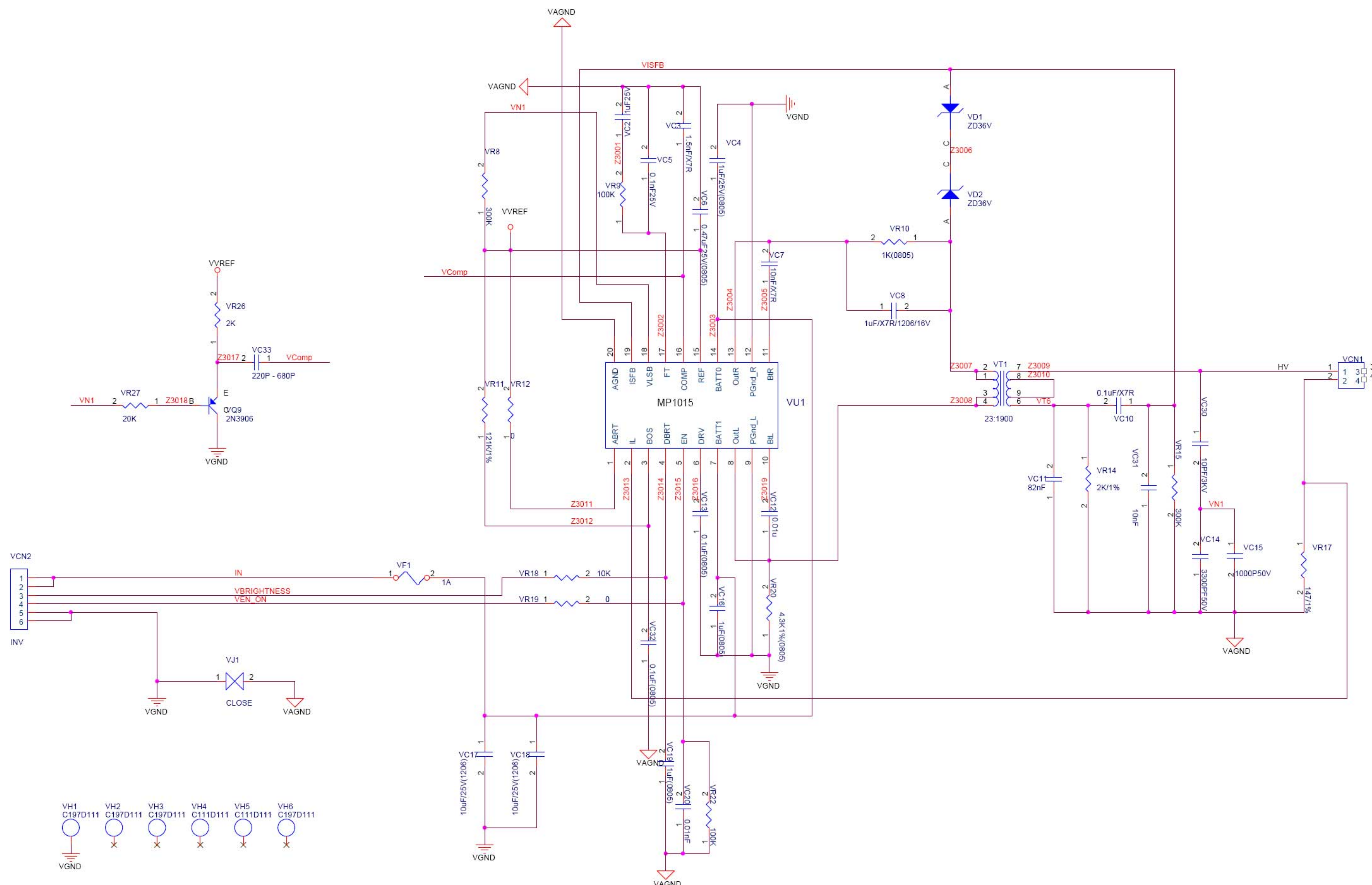
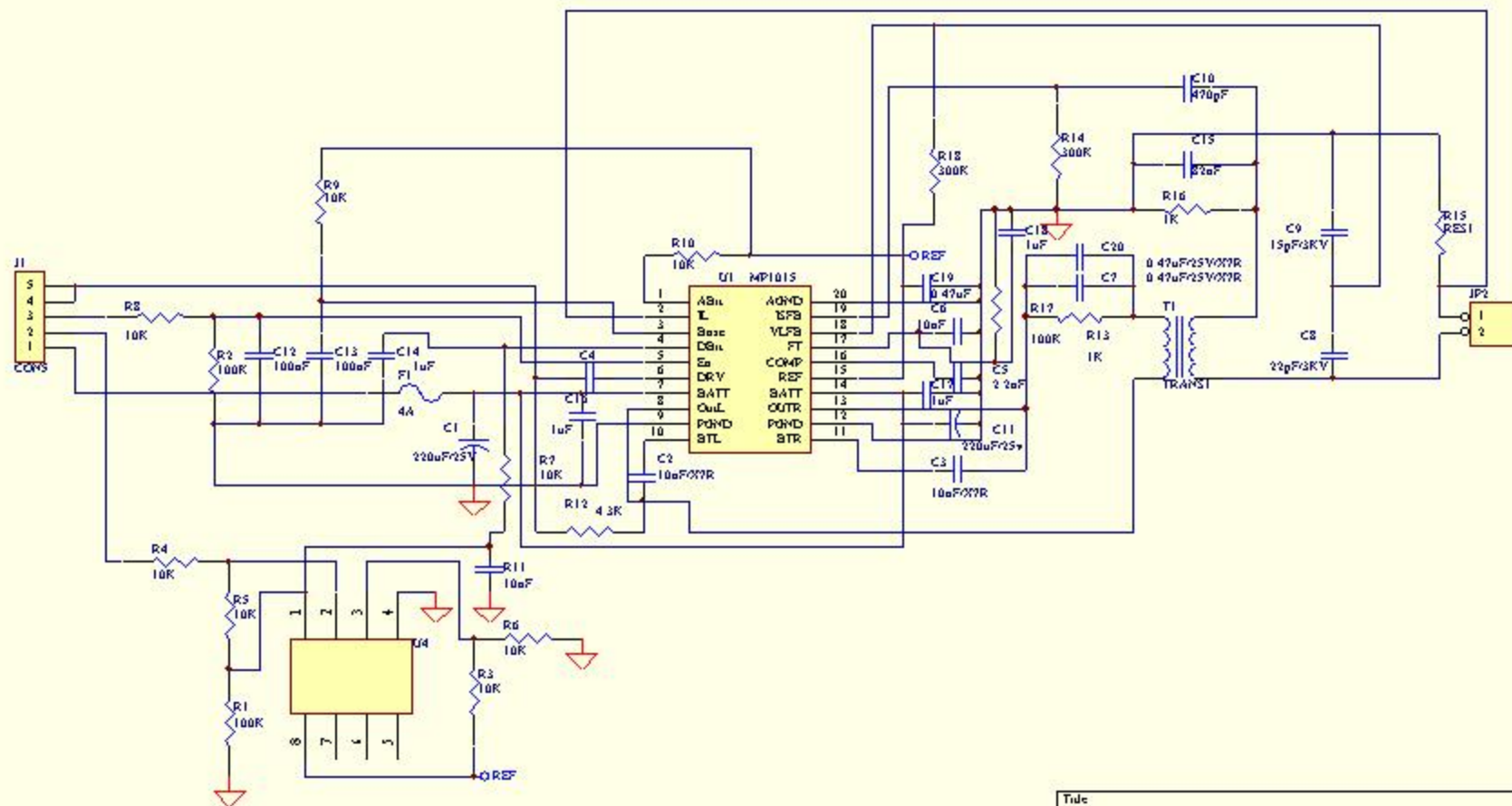


Inverter Board

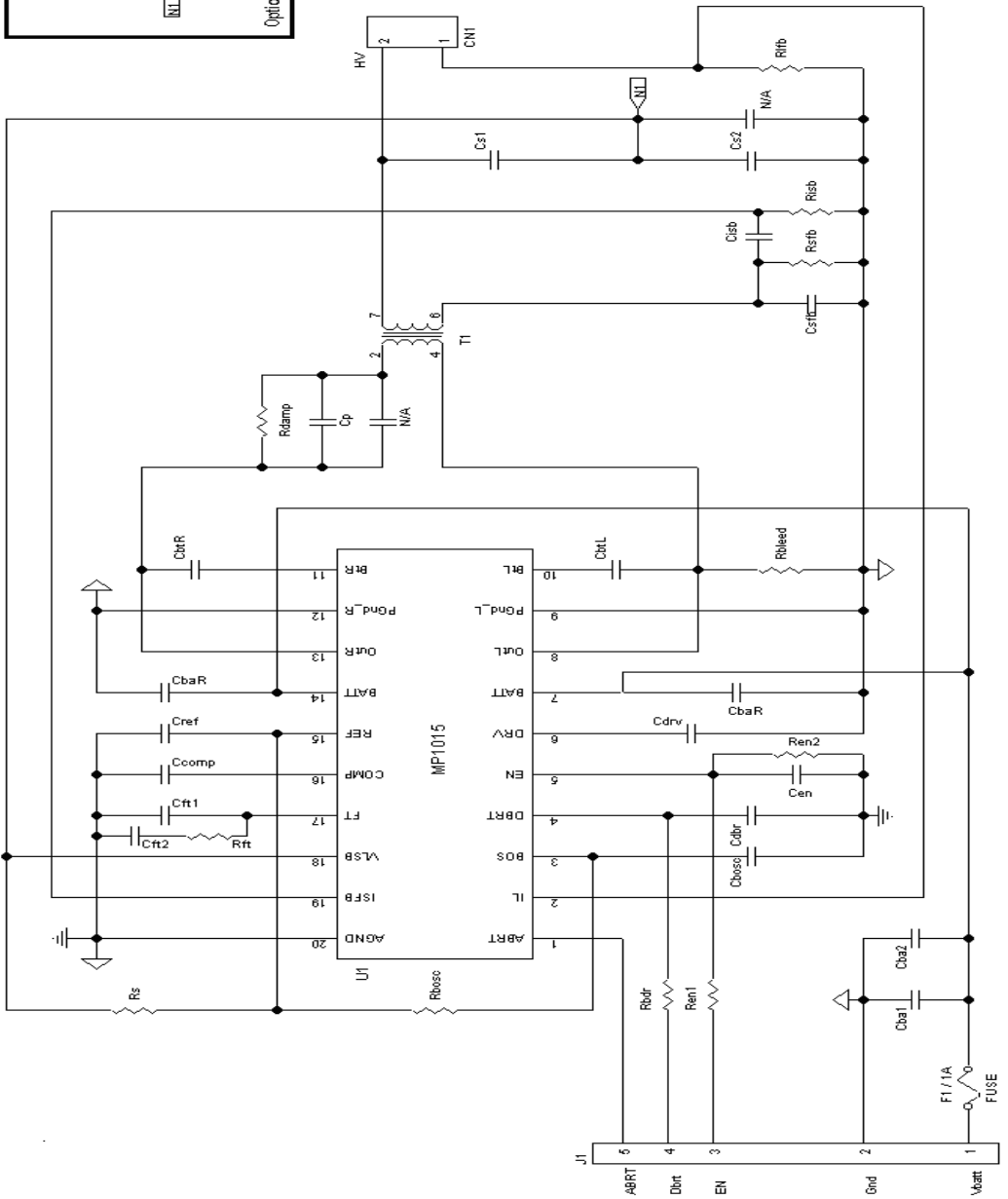
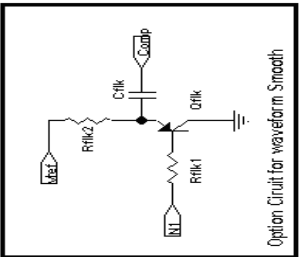


Inverter





Title		
Size	Number	Revision
A4		
Date:	30-Oct-2003	Sheet of
File:	F:\246 Wang\PC\VBET1015-Land Cell Design B1	



Item	Qty	Description	Vendor / Part #	Designation
Integrated Circuits				
1	1	MP1015EM, TSSOP20	Monolithic Power Systems	U1
Resistors				
2	1	150Ω, ±1%,SMD, 0603		Rlfb
3	1	1KΩ, ±5%, SMD, 0603		Rdamp
4	1	4.3KΩ, ±5%, SMD, 0603		Rbleed
5	1	470KΩ, ±1%, SMD, 0603		Rbosc
6	2	300KΩ, ±5%, SMD, 0603		Rs, Risb
7	1	10KΩ, ±5%, SMD, 0603		Rdbr
8	1	100KΩ, ±5%, SMD, 0603		Ren2, Rft
9	1	0Ω, ±5%, SMD, 0603		Ren1
10	1	2KΩ, ±5%, SMD, 0603		Rsfb
Capacitors				
11	3	10nF, 50V, X7R, SMD, 0603		CbtL, CbtR, Cft1
12	1	1.5nF, 16V, X7R, SMD, 0603		Ccomp
13	1	82nF, 16V, X7R, SMD, 0603		Csfb
14	1	22nF, 6.3v, X7R, SMD, 0603		Cbosc
15	1	4.7nF, 16V, X7R, SMD, 0603		Cs2
16	1	10pF, 3KV, SMD, 1810		Cs1
17	1	1.0μF, 16V, X7R, SMD 1206	Murata GRM42-6X7R-105K	Cp
18	2	1μF, 25V, Y5V, SMD, 0805		CbaR, CbaL
19	2	2.2μF, 25V, Y5U, SMD, 1206		Cba1, Cba2
20	2	0.1μF, 10V, X7R, SMD, 0603		Cdrv, Cisb
21	1	0.47μF, 6.3v, X7R, SMD, 0603		Cref
22	2	1μF, 6.3V, X7R, SMD, 0603		Cdbr, Cft2
23	1	10nF, 10V, Y5U, SMD, 0603		Cen
Magnetics				
24	1	Transformer *		T1
Hardware				
25	1	Fuse, 1A, SMD 1206		F1
Optional Circuits for Smooth Waveform				
26	1	20KΩ~100KΩ, ±5%, SMD, 0603	Adjust for different hfe of Qflk	Rflk1
27	1	2KΩ, ±5%, SMD, 0603		Rflk2
28	1	Transistor SMD 2SA1576 or 3906		Qflk
29	1	470pF~1nF, 10V, X7R, SMD, 0603	Adjust for smooth effect	Cflk