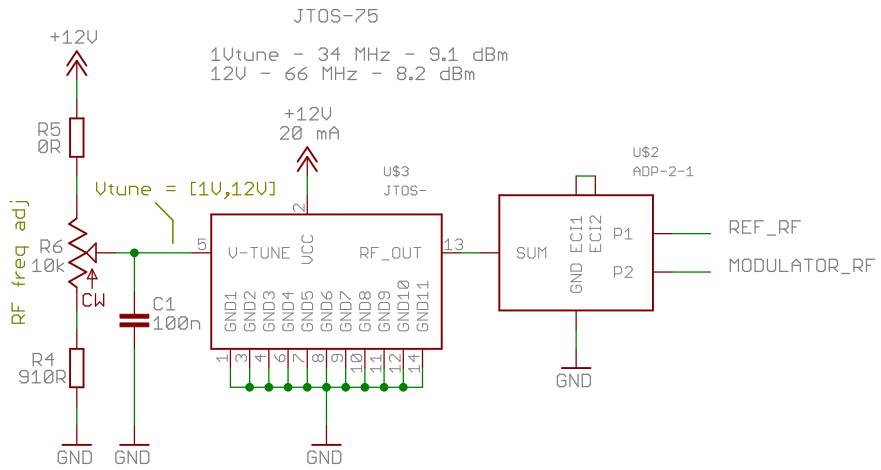
RF Source



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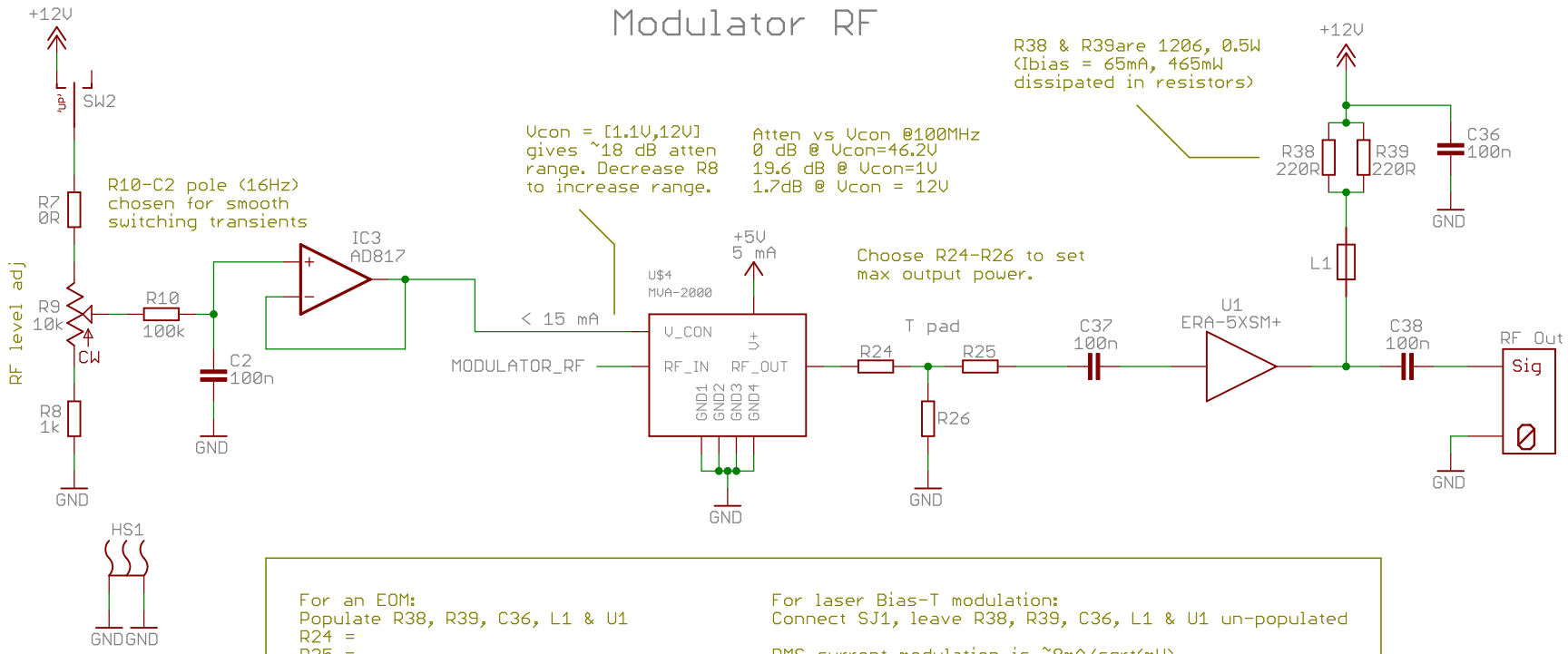
TITLE: pdhBox

Sheet: 1/6



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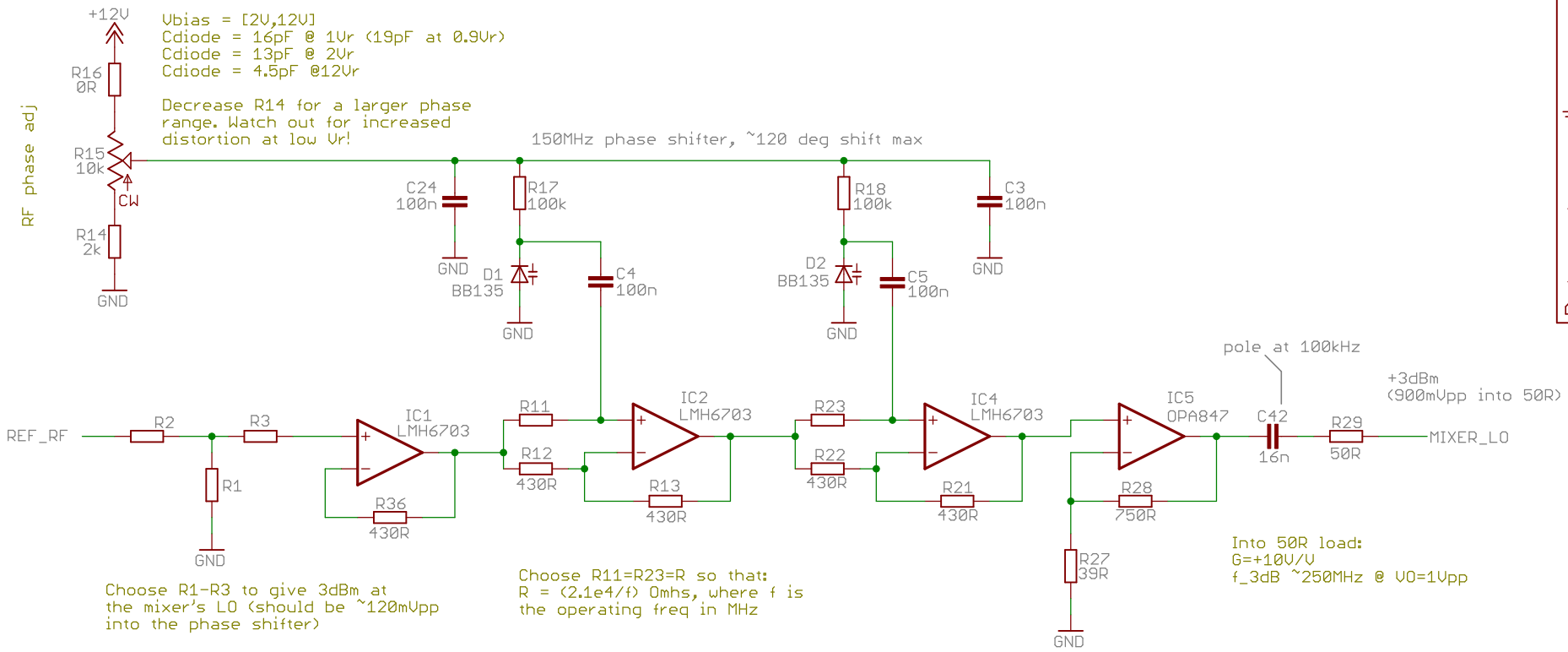
Ref RF Phase Shifter



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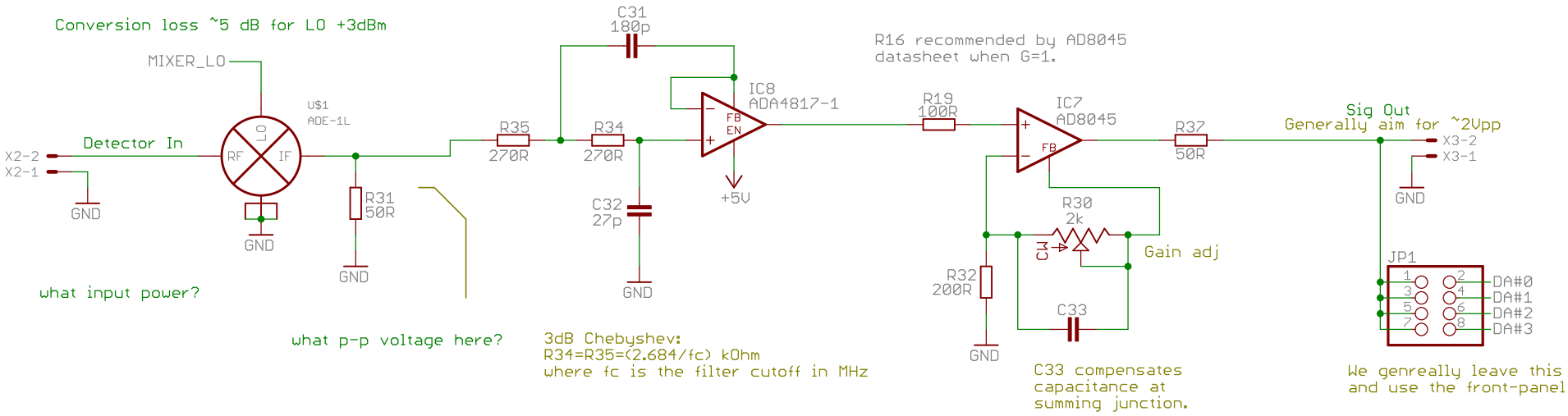
Demodulator & Filter



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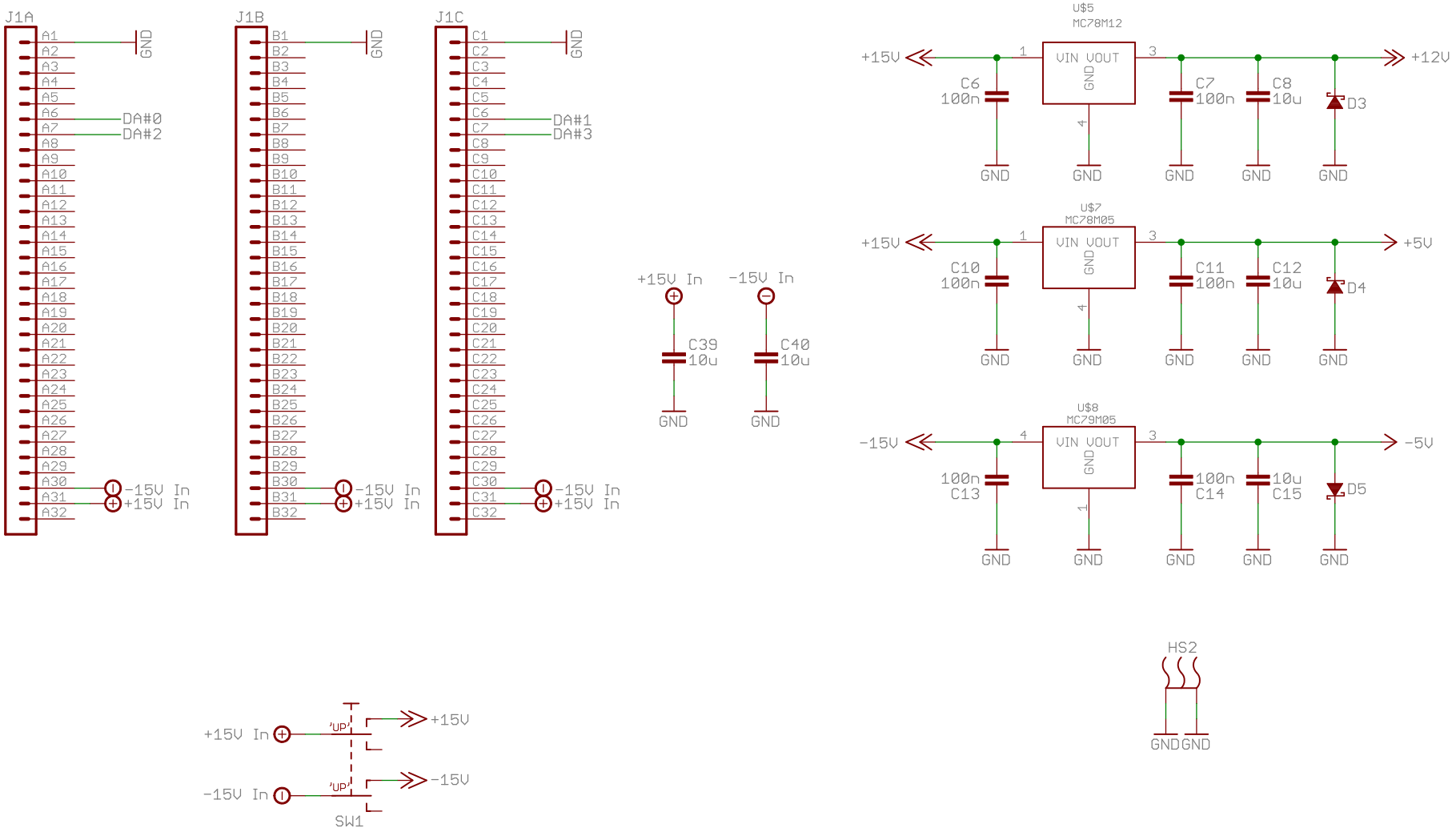
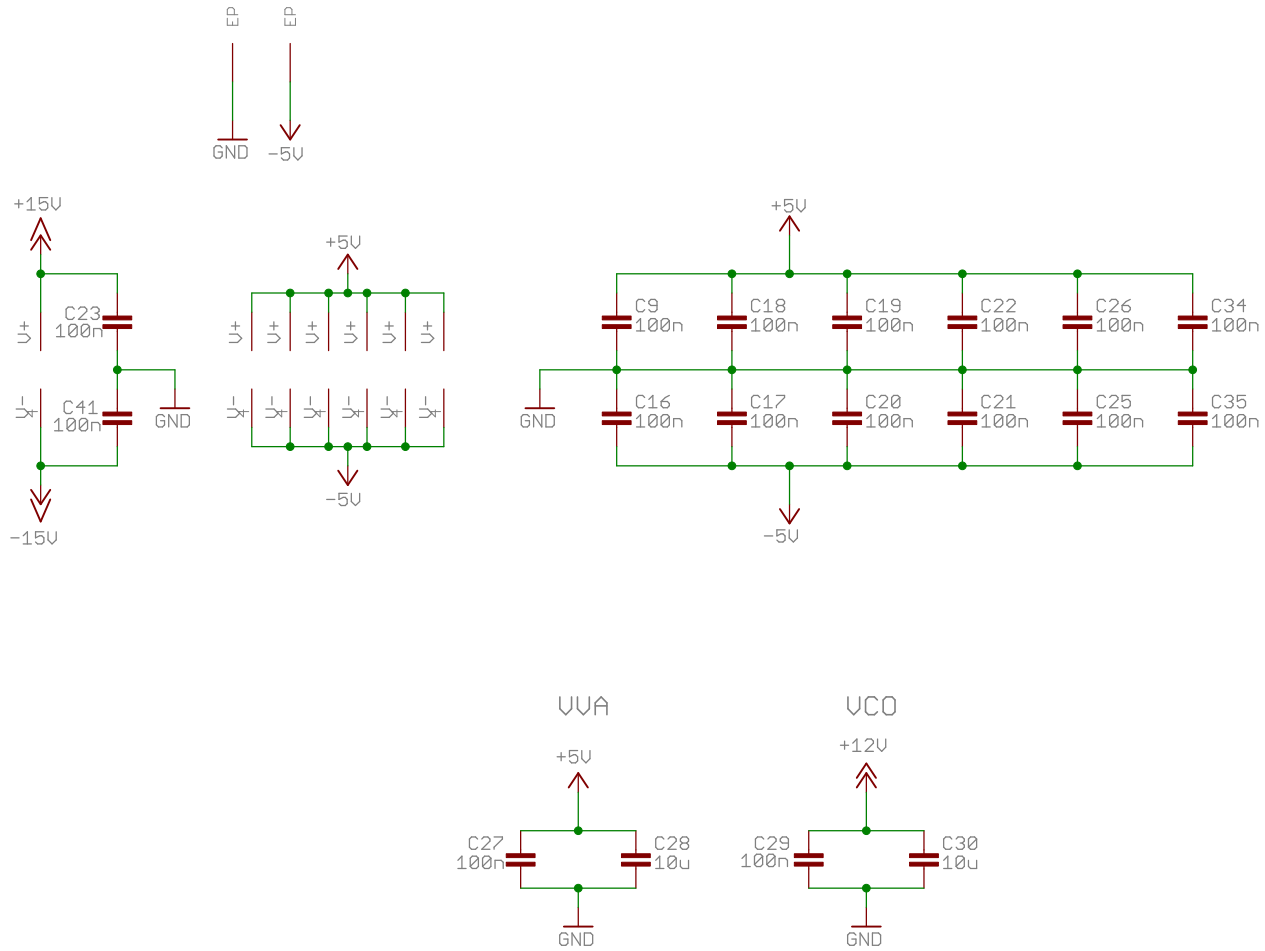
Ideal Filter Transfer Functions

fc = 5MHz (R=510R):	fc = 7MHz (R=390R):	fc = 10MHz (R=270R):	fc = 15MHz (R=180R):
0.5MHz: +0.01dB, 5deg	0.5MHz: +0.04dB, 3.7deg	0.5MHz: +0.02dB	0.5MHz: +0.01dB, 2deg
1MHz: +0.4dB, 11deg	1MHz: +0.2dB, 8deg	1MHz: +0.1dB, 5deg	1MHz: +0.04dB, 4deg
3MHz: +2.7dB, 49deg	3MHz: +1.5dB, 28deg	3MHz: +0.8dB, 18deg	3MHz:+0.35dB, 11deg
5MHz: 0dB, 114deg	5MHz: +3dB, 67deg	5MHz: +2dB, 35deg	5MHz: +1dB, 20deg
40MHz: -39dB, 175deg	40MHz: -33dB, 173deg	40MHz: -27dB, 170deg	40MHz: -20dB, 165deg
80MHz: -51dB, 178deg	80MHz: -45dB, 176deg	80MHz: -39dB, 175deg	80MHz: -32dB, 173deg
150MHz: -62dB, 179deg	150MHz: -56dB, 178deg	150MHz: -50dB, 178deg	150MHz:-43dB, 176deg

Standard Toptica Analog Bus Lines

DA#0 - SC ch. 1 feed forward output/DCC modulation input
DA#1 -
DA#2 - lock piezo path output/SC offset input
DA#3 -


J1A
J1B
J1C
GND
DA#0
DA#2
DA#1
DA#3
-15V In
+15V In
U$5
MC78M12
+15V
+12V
C6
100n
C7
100n
C8
10u
D3
U$7
MC78M05
+5V
C10
100n
C11
100n
C12
10u
D4
U$8
MC79M05
-15V
-5V
100n
C13
100n
C14
10u
C15
D5
VIN VOUT
C39
10u
C40
10u
HS2
SW1
'up'
Date: not saved!
TITLE: pdhBox
Sheet: 5/6



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Sheet: 6/6