

AD7124-4 24-Bit 4.8KSPS (Settled) SD ADC

GPIO Ref to 5V Analog
Provision for voltage divider
for low voltages

Connect SDP_GND and AGND
for ADP7104 return currents

Connect AVSS and AGND for 3.3V supply
Disconnect for +/- 1.8V operation

COLD JUNCTION COMPENSATION
DIGITAL TEMP SENSOR

Connector:
ADC internal clock output
or an external clock input

DIGITAL INTERFACE

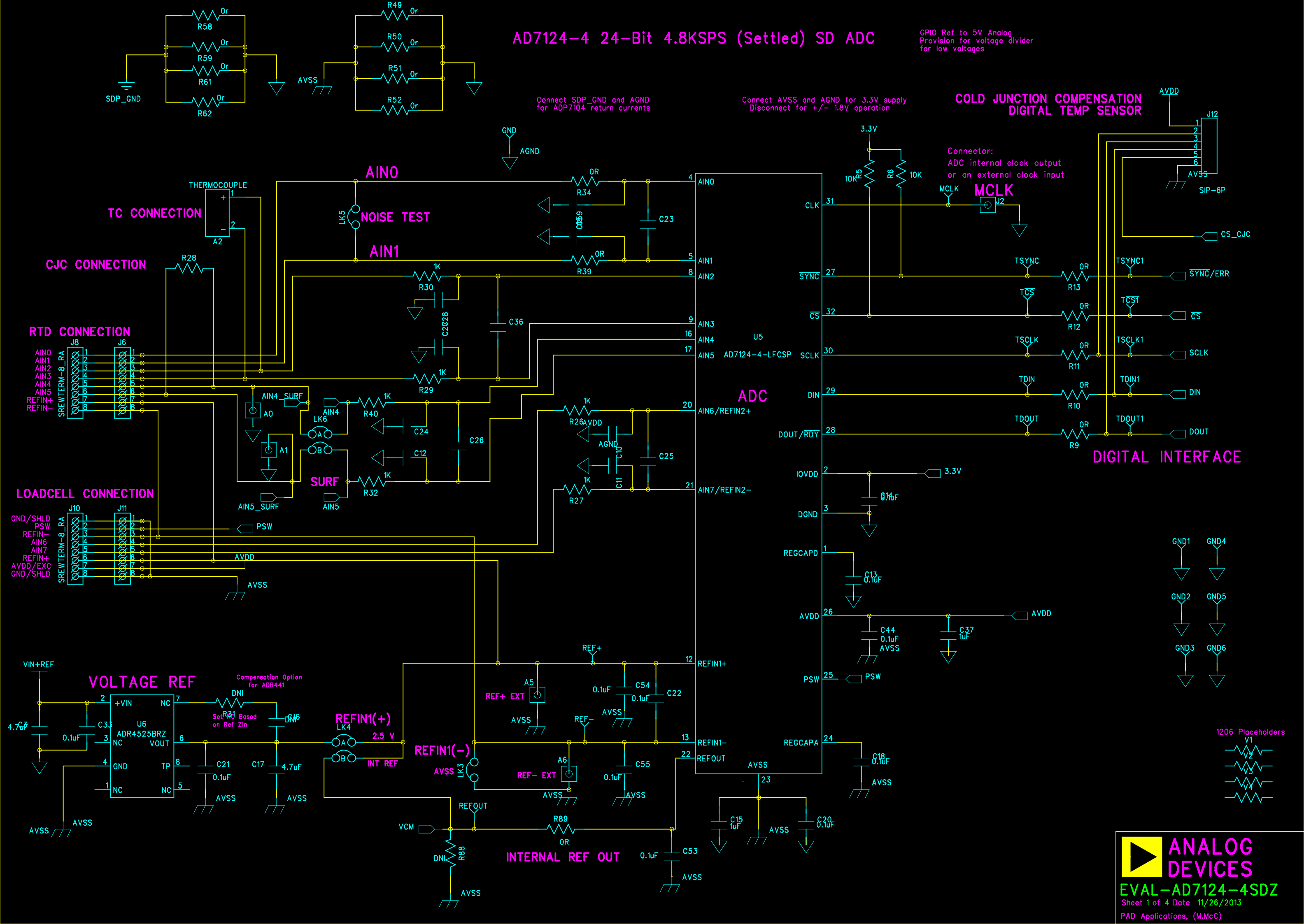
1206 Placeholders



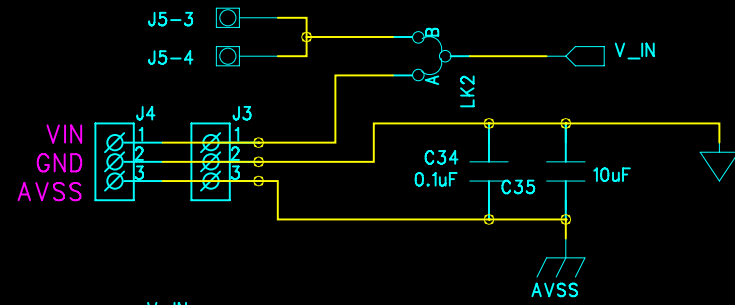
EVAL-AD7124-4SDZ

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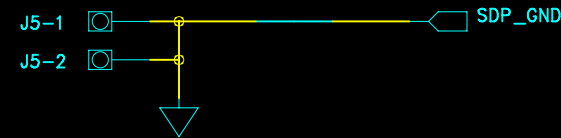
PAD Applications, (M.McC)



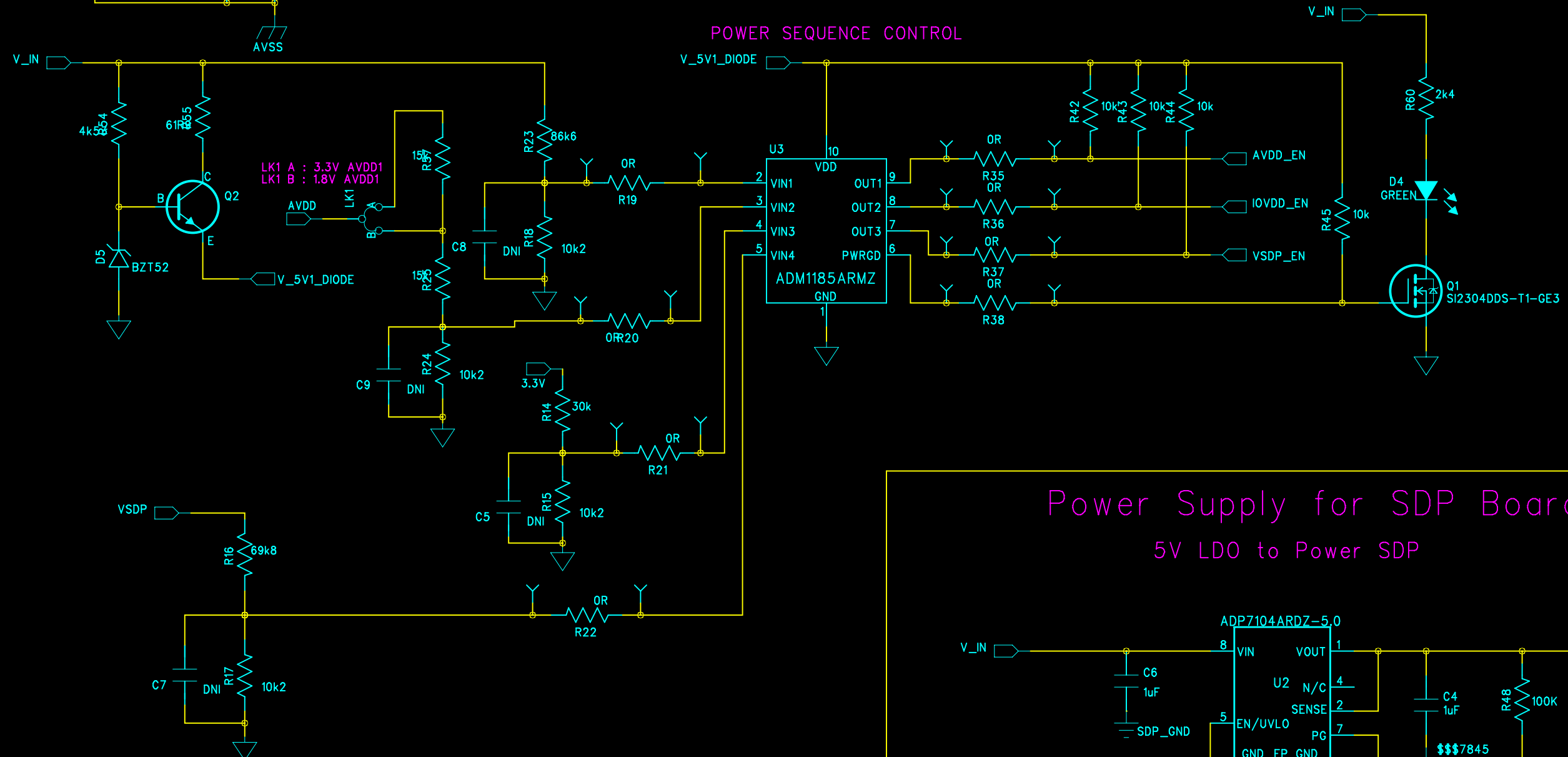
POWER SUPPLY



Ground Star point. Place near to V_in jack plug J5

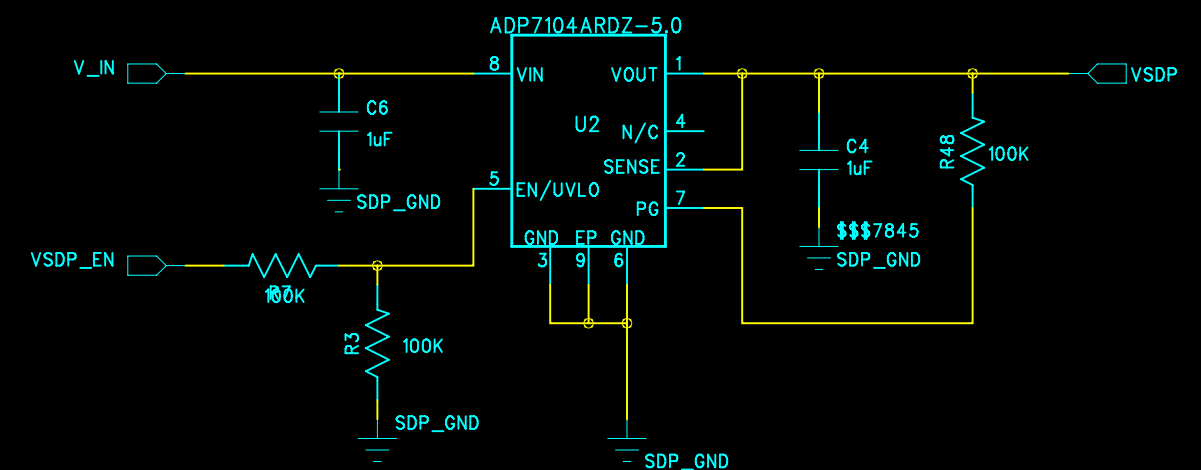


POWER SEQUENCE CONTROL

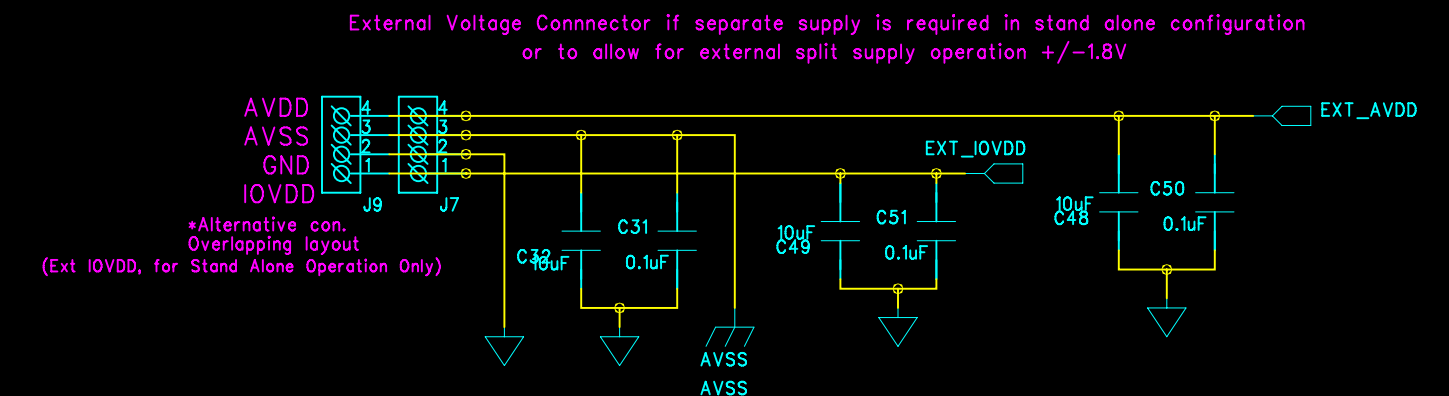
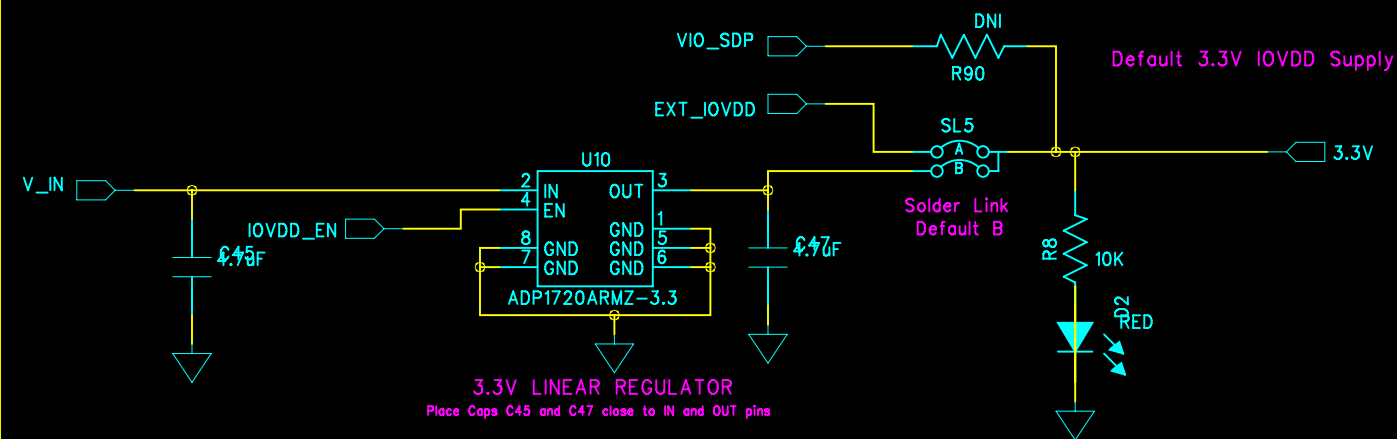
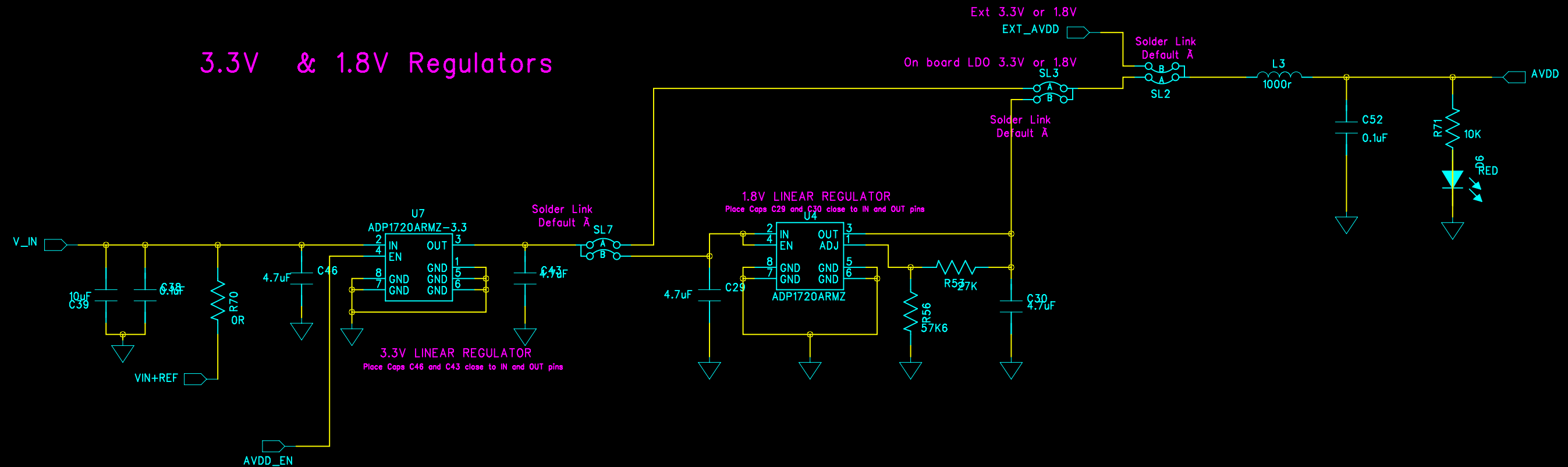


C160-C163 placed only if specific delays needed

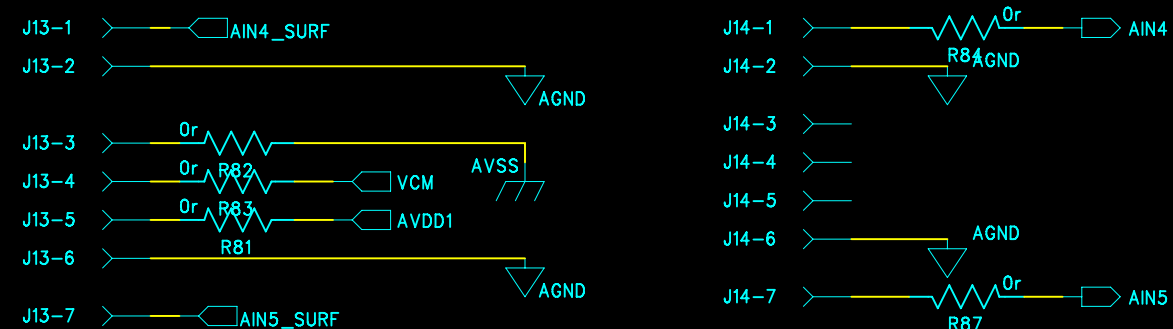
Power Supply for SDP Board 5V LDO to Power SDP



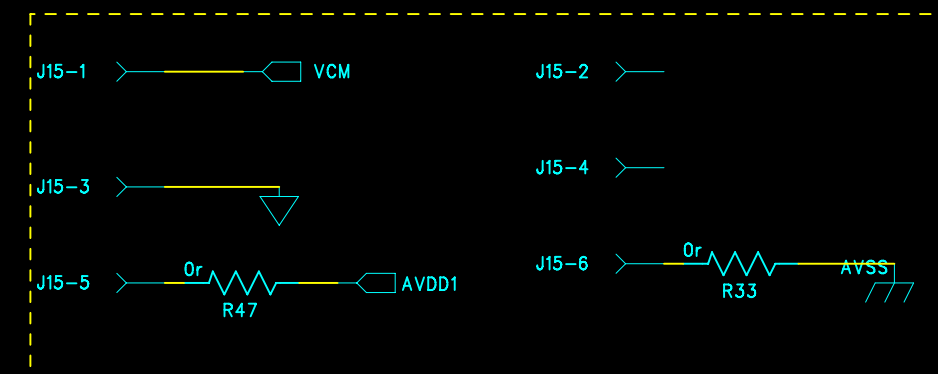
3.3V & 1.8V Regulators



OPTIONAL HEADER CONNECTOR



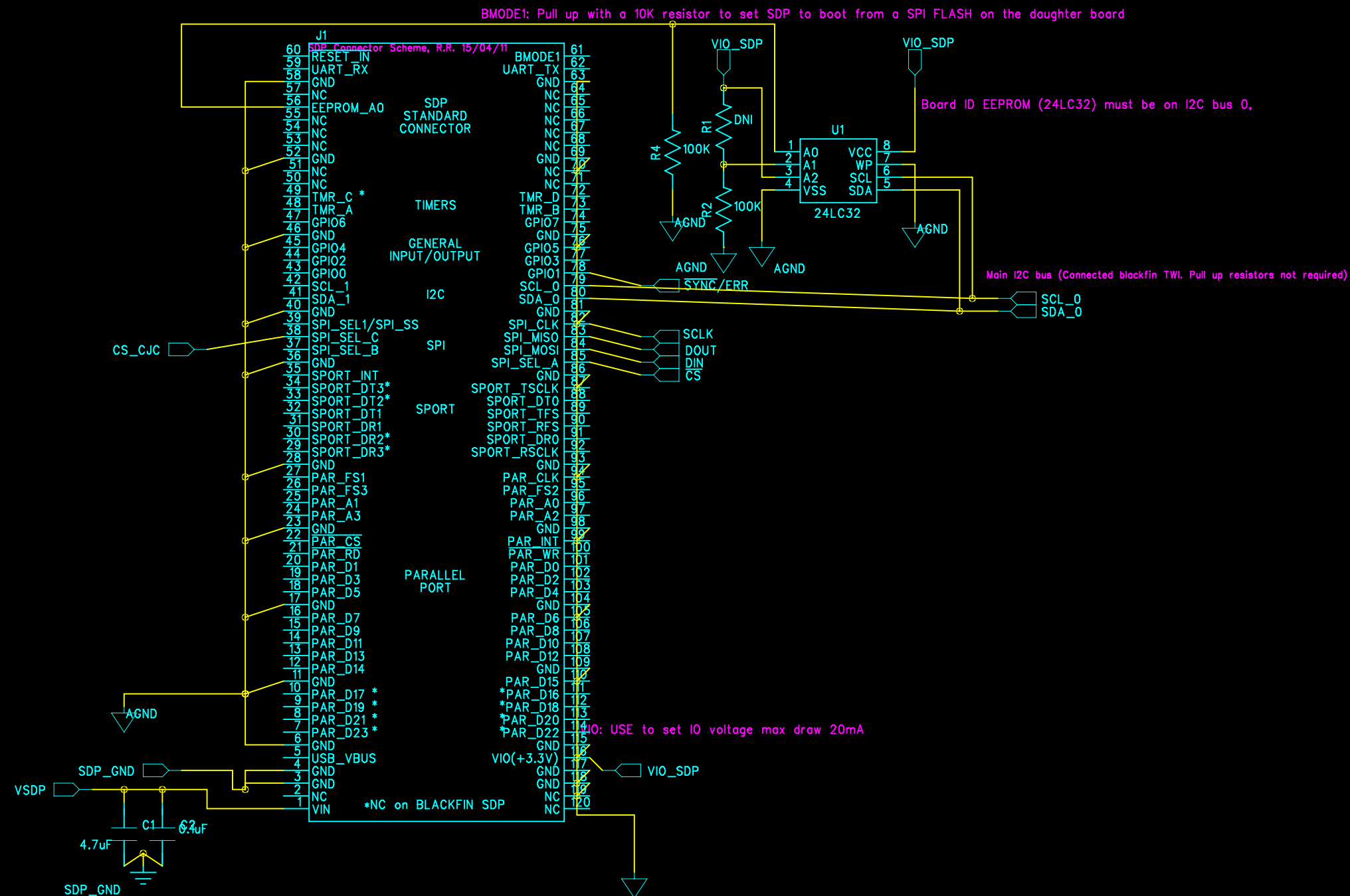
OPTIONAL HEADER CONNECTION EXTENDER CARD



SDP CONNECTOR	EEPROM-SW/USB ID
1	00000000
2	00000001
3	00000002
4	00000003
5	00000004
6	00000005
7	00000006
8	00000007
9	00000008
10	00000009
11	0000000A
12	0000000B
13	0000000C
14	0000000D
15	0000000E
16	0000000F
17	00000010
18	00000011
19	00000012
20	00000013
21	00000014
22	00000015
23	00000016
24	00000017
25	00000018
26	00000019
27	0000001A
28	0000001B
29	0000001C
30	0000001D
31	0000001E
32	0000001F
33	00000020
34	00000021
35	00000022
36	00000023
37	00000024
38	00000025
39	00000026
40	00000027
41	00000028
42	00000029
43	0000002A
44	0000002B
45	0000002C
46	0000002D
47	0000002E
48	0000002F
49	00000030
50	00000031
51	00000032
52	00000033
53	00000034
54	00000035
55	00000036
56	00000037
57	00000038
58	00000039
59	0000003A
60	0000003B
61	0000003C
62	0000003D
63	0000003E
64	0000003F
65	00000040
66	00000041
67	00000042
68	00000043
69	00000044
70	00000045
71	00000046
72	00000047
73	00000048
74	00000049
75	0000004A
76	0000004B
77	0000004C
78	0000004D
79	0000004E
80	0000004F
81	00000050
82	00000051
83	00000052
84	00000053
85	00000054
86	00000055
87	00000056
88	00000057
89	00000058
90	00000059
91	0000005A
92	0000005B
93	0000005C
94	0000005D
95	0000005E
96	0000005F
97	00000060
98	00000061
99	00000062
100	00000063
101	00000064
102	00000065
103	00000066
104	00000067
105	00000068
106	00000069
107	0000006A
108	0000006B
109	0000006C
110	0000006D
111	0000006E
112	0000006F
113	00000070
114	00000071
115	00000072
116	00000073
117	00000074
118	00000075
119	00000076
120	00000077
121	00000078
122	00000079
123	0000007A
124	0000007B
125	0000007C
126	0000007D
127	0000007E
128	0000007F
129	00000080
130	00000081
131	00000082
132	00000083
133	00000084
134	00000085
135	00000086
136	00000087
137	00000088
138	00000089
139	0000

VI0: USE to set IO voltage max draw 20mA

VIN: Use this pin to power the SDP requires 4-7V 200mA



VIN: Use this pin to power the SDP requires 5V 200mA

I2C bus 1 is common across both connectors on SDP - Pull up resistors required (connected to blackfin GPIO - use I2C_0 first)