CA11 4.7 µF
CA12
vref
D
A
U3
DAC904
powered between GND and 3V3
I_{out}
$\overline{I_{out}}$
CA10 not populated
RA14 24.9 Ω
not populated
CA7
RA10 24.9 Ω
R93 226 Ω
R90 226 Ω
R98 499 Ω
U18 AD8009
499 Ω
R86
R91 49.9 Ω
RLA7
C99 not populated
L24 L25 L26
C104 C105 C111 C112
C100 C101 C102 C103
L27 L28 L29 L30
C107 C108 C109 C110
R100 499 Ω
R99 499 Ω
U19 AD8009
49.9 Ω R94
R85 not populated
R89 49.9 Ω
RLA8
C63 4.7 µF
C62
powered between GND and 3V3
ADCMP562
U13
R52 49.9 Ω
C321 not populated
R57 20 kΩ 20 mV hysteresis
R104 49.9 Ω
150 Ω R111
C127 not populated
R106 100 Ω
R109 49.9 Ω
150 Ω R110
R108 226 Ω
R105 226 Ω
R113 499 Ω
U20 AD8009
499 Ω R103
R107 49.9 Ω
RLA8
R87 not populated
R95 1.18 kΩ
R101 49.9 Ω
U17 VCA822
R96 787 Ω
not populated R97
V_G
100 nF C506
R92 49.9 Ω
20 kΩ R118
100 nF C146
RLA9
R119 71.5 Ω
95.3 Ω R122
95.3 Ω R123
RLA9
RLA10
R120 249 Ω
60.4 Ω R124
60.4 Ω R125
RLA10
R117 226 Ω
63.4 Ω R121
200 Ω R126
90.9 Ω R115
C150
C149 4.7 µF
R127 301 Ω
U21 LMH6702
5 V
QA4 not populated
−5 V
R305 not populated
R306 not populated
RA29 49.9 Ω
not populated R307
not populated R308
RLA11
R138 100 Ω
R135 20 Ω
1 kΩ R136
R137 909 Ω
U22 THS3695
15 V
Q2
−15 V
R133 49.9 Ω
R131 49.9 Ω
R134 49.9 Ω
R132 49.9 Ω
RLA11
RLA12
CH1 out
C512
R365 0 Ω
R234 10 kΩ
U61
R366 0 Ω
3.32 kΩ
R371
not populated C510
C515 4.7 µF
100 nF C509
V_{ref} out
D
A
U62
DAC80501M
powered between GND and 5V
R372 15 kΩ
R376 100 Ω
not populated C508
R370 4.32 kΩ
U61
R363 0 Ω
U28 74HC4051
U29 74HC4051
C197
R160 0 Ω
R162 10 kΩ
U34
R157 100 Ω
U21 offset
100 nF C194
C224
R174 0 Ω
R176 10 kΩ
U30
R171 0 Ω
U3 reference
100 nF C219
C190
R150 0 Ω
R152 10 kΩ
U31
R148 20 Ω
U17 gain
100 nF C182
C230
R177 0 Ω
R179 10 kΩ
U39
R175 0 Ω
U13 threshold
100 nF C225
C306
R219 0 Ω
R220 10 kΩ
U57
R218 100 Ω
U56 threshold
100 nF C305
C320
R222 0 Ω
R223 10 kΩ
U57
R221 100 Ω
U56 threshold
100 nF C319
5 V
Q6
U56 LM339
R210 4.64 kΩ
R116 100 kΩ
R215 10 kΩ
27.4 kΩ R217
U56 LM339
RLA11 output
20 kΩ R112
−5 V
C130 not populated
R114 not populated
C146
U41 74HC4051
R182 0 Ω
not populated
C244
U42 TL072
R187 10 kΩ
C247 not populated
R189 10 kΩ
U43 TL072
R186 1 kΩ
C246 not populated
Q4
U44 ADC121S101
30.1 kΩ R178
R180 10 kΩ
C236 100 nF
QA2
R274 1 MΩ
U6 74AHC14
U8
not populated CA36
74AHCT125
R309 49.9 Ω
aux in/out
RLA13
R183 4.02 kΩ
22 pF C241
R181 10 kΩ
R184 20 kΩ
R185 10 kΩ
C242 220 pF
Q3
U6 74AHC14
R311 75 Ω
220 pF C507
R132 499 Ω
U42 AD8009
3.3 V
RA19 10 kΩ
RA18 10 kΩ
R310 49.9 Ω
CA30 100 nF
10 MHz in/out
RLA14
QA1