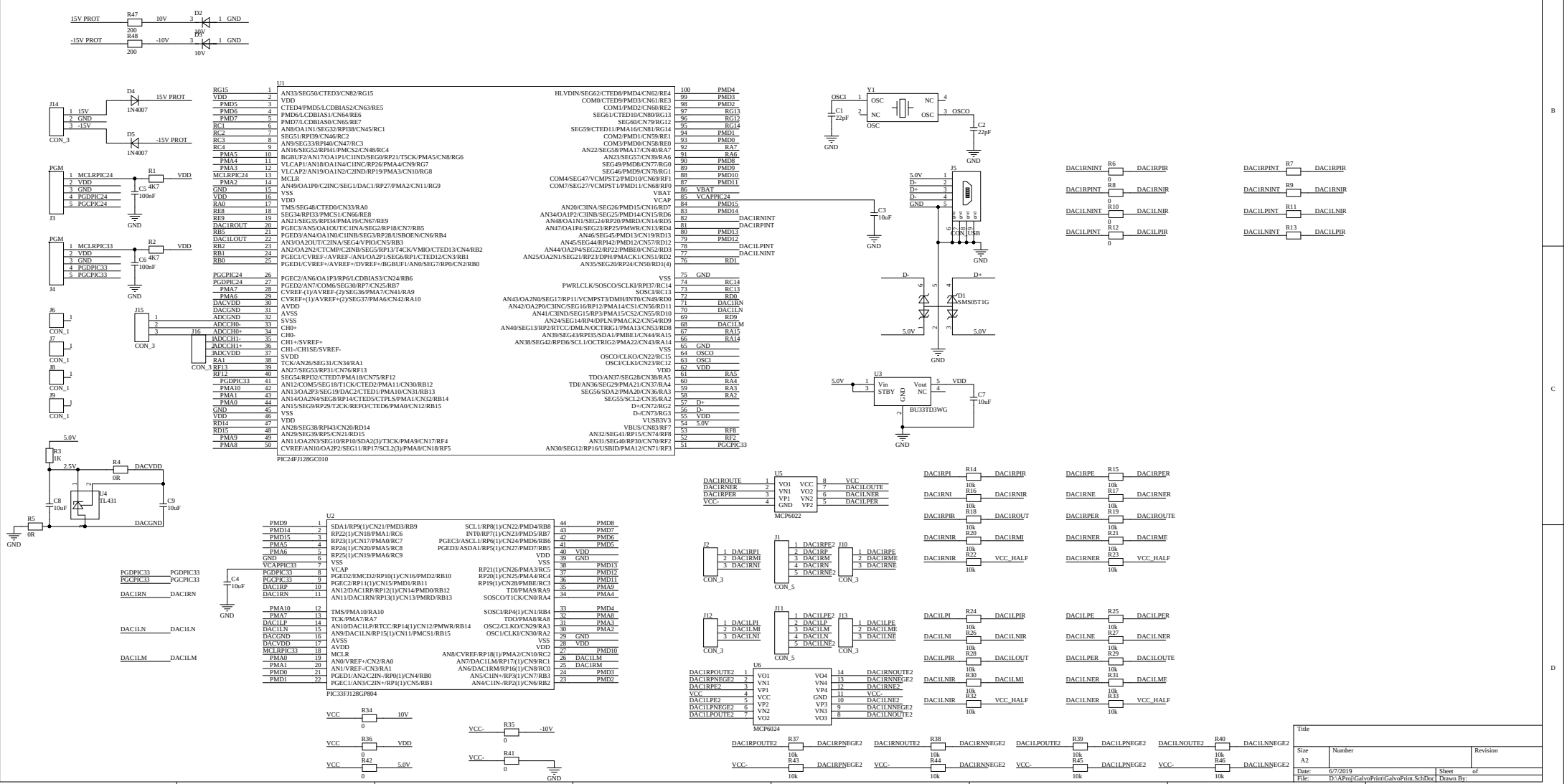
15V PROT
R47
200
10V
D2
1N4007
GND
-15V PROT
R48
200
-10V
D3
1N4007
10V
J14
CON_3
D4
1N4007
15V PROT
D5
1N4007
-15V PROT
PGM
J3
MCLRPIC24
VDD
R1
C5 4K7
100nF
GND
PGM
J4
MCLRPIC33
R2
C6 4K7
100nF
J6
CON_1
J7
CON_1
J8
CON_1
J9
CON_1
J15
CON_3
J16
CON_3
U1
PIC24FJ128GC010
U2
PIC33FJ128GP804
5.0V
R3
1K
2.5V
R4
0R
DACVDD
U4
TL431
C8
10uF
C9
10uF
R5
0R
DACGND
PGDPIC33
PGCPIC33
DAC1RN
DAC1LN
DAC1LM
C4
10uF
VCC
R34
0
10V
R36
VDD
R42
5.0V
VCC-
R35
-10V
R41
Y1
OSC
OSCI
OSCO
C1
22pF
C2
22pF
C3
10uF
J5
CON_USB
D1
SMS05T1G
U3
Vin
STBY
GND
Vout
NC
VDD
BU33TD3WG
C7
10uF
U5
MCP6022
DAC1ROUTE
DAC1RNER
DAC1RPER
VCC-
VCC
DAC1LOUTE
DAC1LNER
DAC1LPER
J2
CON_3
J1
CON_5
J10
CON_3
J12
CON_3
J11
CON_5
J13
CON_3
U6
MCP6024
DAC1RPOUTE2
DAC1RPNEGE2
DAC1RPE2
VCC
DAC1LPE2
DAC1LPNEGE2
DAC1LPOUTE2
DAC1RNOUTE2
DAC1RNNEGE2
DAC1RNE2
DAC1LNE2
DAC1LNNEGE2
DAC1LNOUTE2
DAC1RNINT
DAC1RPINT
DAC1LNINT
DAC1LPINT
DAC1RPIR
DAC1RNIR
DAC1LNIR
DAC1LPIR
R6
R7
R8
R9
R10
R11
R12
R13
DAC1RPI
DAC1RNI
DAC1LPI
DAC1LNI
DAC1RPE
DAC1RNE
DAC1LPE
DAC1LNE
R14
R15
R16
R17
R18
R19
R20
R21
R22
R23
R24
R25
R26
R27
R28
R29
R30
R31
R32
R33
DAC1RNOUT
DAC1RMI
VCC_HALF
DAC1LOUT
DAC1LMI
R37
R38
R39
R40
R43
R44
R45
R46
Title
Size
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Number
Revision
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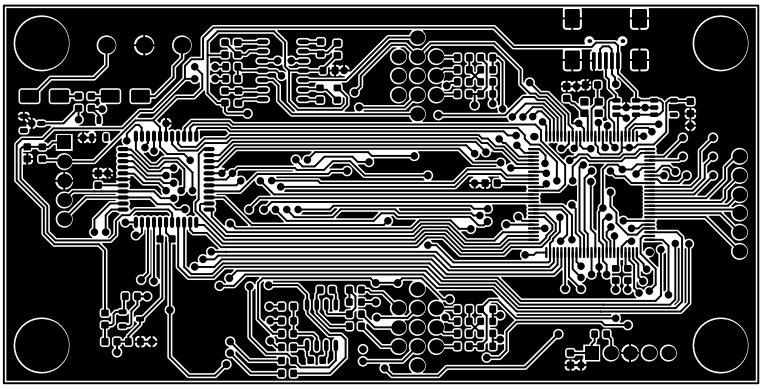
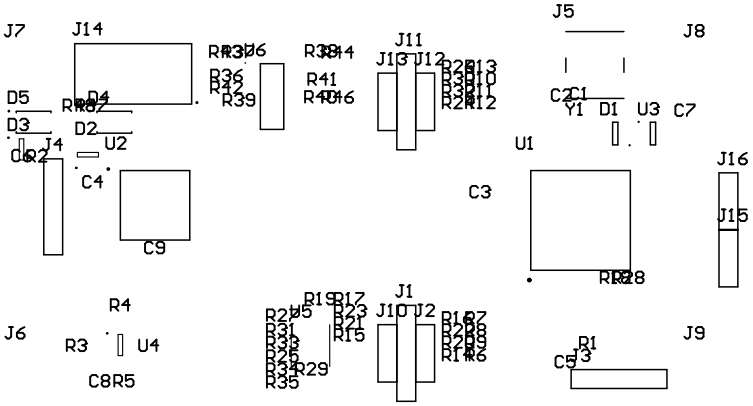
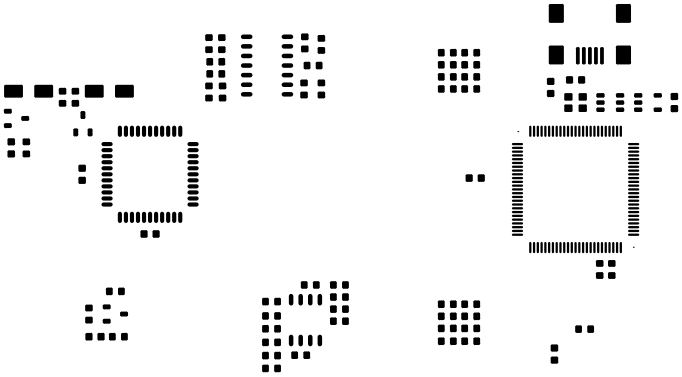
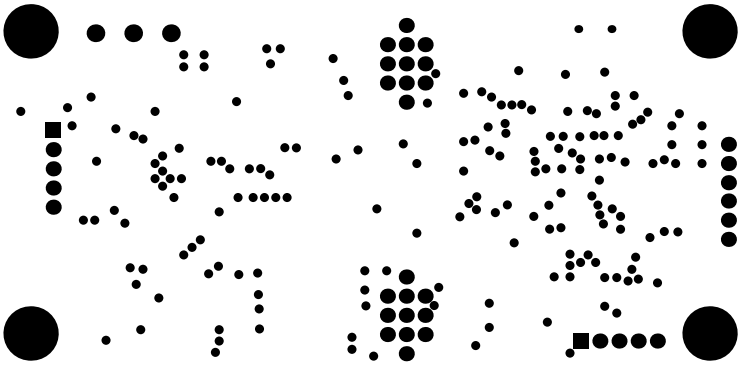
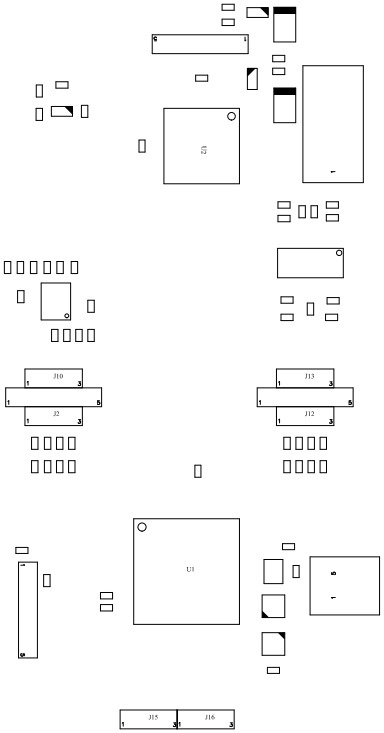
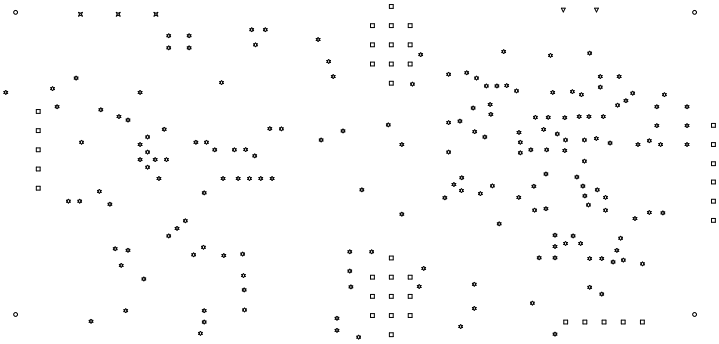


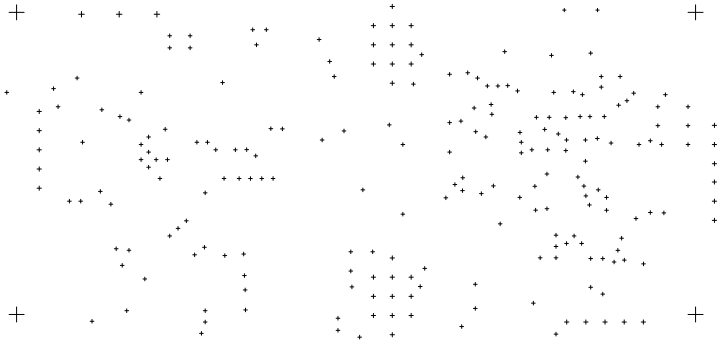

J7
J14
J5
J8
J11
D5
D4
D3
D2
J4
U2
C4
C9
R36
R42
R39
R41
J13
J12
C2
C1
Y1
D1
U3
C7
U1
J16
C3
J15
R4
J6
R3
U4
C8
R5
J1
J10
J2
R29
R35
R15
R21
R23
R17
R19
C5
R1
J9






Z1
J10
J2
J13
J12
U1
J15
J16





Footprint	Comment	Quantity	Designator
0603_C	C	9	C1, C2, C3, C4, C5, C6, C7, C8, C9
SOT23_6	SMS05T1G	1	D1
SOT23_3	10V	2	D2, D3
SMA	1N4007	2	D4, D5
HDR_254_5	CON_5	4	J1, J3, J4, J11
HDR_254_3	CON_3	6	J2, J10, J12, J13, J15, J16
CON_USB_MINI	CON_USB	1	J5
MOUNT_HOLE	CON_1	4	J6, J7, J8, J9
HDR_500_3	CON_3	1	J14
0603_R	R	7	R1, R2, R3, R4, R5, R47, R48
0603_R	0	9	R6, R8, R10, R12, R34, R35, R36, R41, R42
0603_R	#NAME?	4	R7, R9, R11, R13
0603_R	10k	28	R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R37, R38, R39, R40, R43, R44, R45, R46
TQFP_100	IC_PIC24FJ128GC010	1	U1
TQFP_44	IC_PIC33FJ128GP804	1	U2
SOT23_5	BU33TD3WG	1	U3
SOT23_3	IC_TL431_SOT23_3	1	U4
SOIC_8	MCP6022	1	U5
SOIC_14	MCP6024	1	U6
OSC_DFN_2x2.5mm	XTAL_OSC1OSC3	1	Y1