

GENERATED FROM AND CONTROLLED BY ALTium - FILE NAME: 2xH-Bridge V0-3 SH1.SchDoc

This document is the property of Black & Decker Inc. The contents of this document are confidential and constitute trade secrets proprietary to Black & Decker Inc. Neither this document or its contents shall be disclosed to any unauthorized person, copied or published without Black & Decker Inc.'s prior written consent. Copyright (c) 2014 BLACK & DECKER INC.

BLACK & DECKER INC.

701 East Joppa Road  
Towson, MD 21286

Time: 9:53:59 PM

Date: 6/16/2015

Size: A3

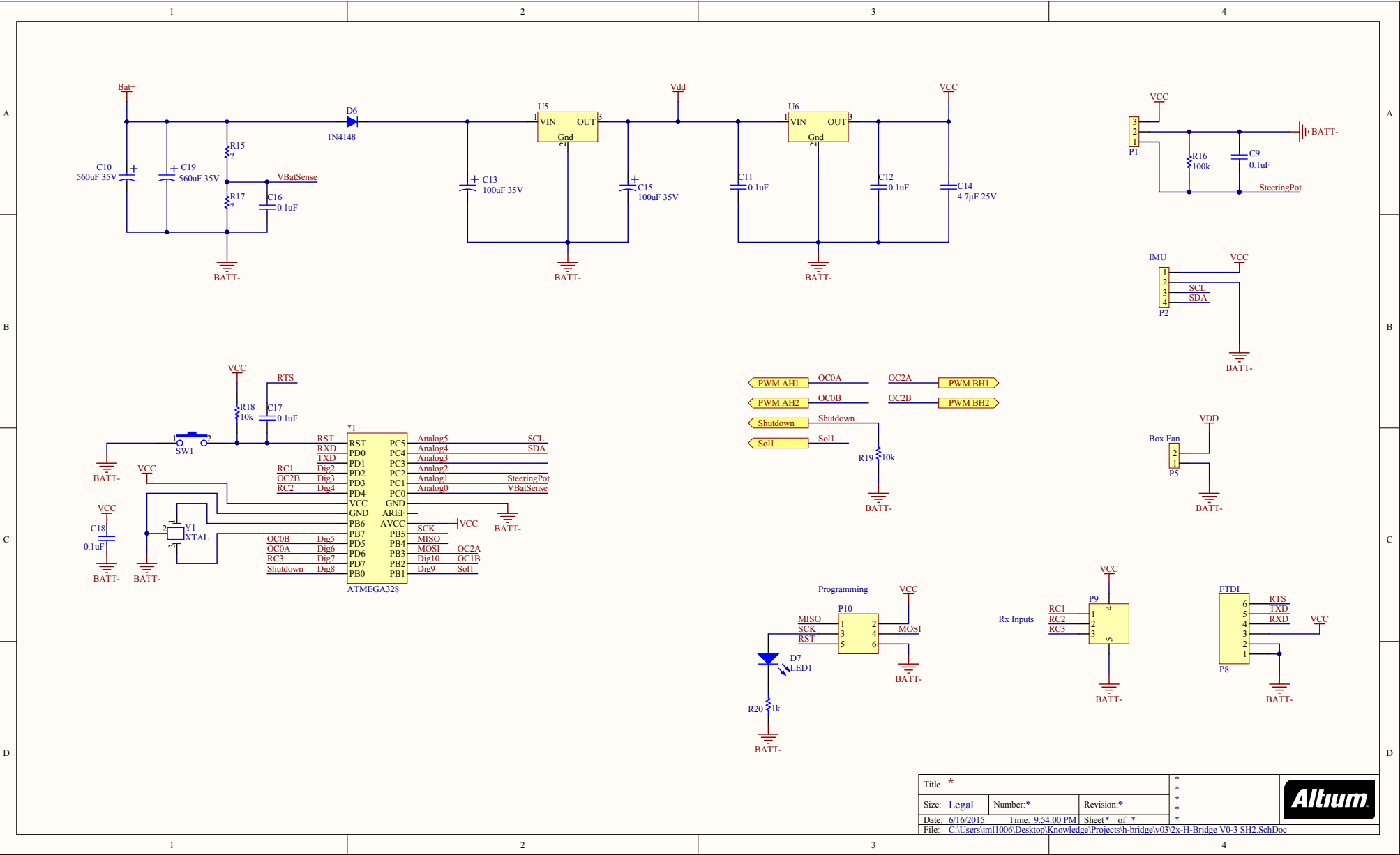
Sheet: 1 of 1

DOC NO: N342640

TITLE: HP POWER BOARD

REV: 0 VER/ITER: 3

CHANGE: \*\*\* EC NUMBER \*\*\*



Comment	Description	Designator	Footprint	LibRef	Quantity
ATMEGA328		*1	ATMEGA328	ATMEGA328	1
2.2uF 25V	CAP CER 2.2UF 25V 10% X7R 0805	C1, C2, C3, C4	RAD-CAP-0.1	MDG-CAP-000060	4
4.7µF 25V	CAP CER 4.7UF 25V 20% X7R 0805 EPOXY	C5, C6, C7, C8, C14	RAD-CAP-0.1	MDG-CAP-000007	5
560uF 35V	CAP ALUM 560UF 35V 20% RADIAL	C10, C19	CAPPRD750W80D 1450H2500P	MDG-CAP-000088	2
100uF 35V	CAP ALUM 100UF 35V 20% RADIAL	C13, C15	CAP 2.5MM	MDG-CAP-000088	2
1N4148	DIODE SMALL SIG 100V 0.2A DO35	D1, D2, D3, D4	RAD-DIODE-0.1	MDG-DIO-000002	4
	DIODE SWITCH 75V 200MW SOD323	D5	DO-35	MDG-DIO-000002	1
1N4148	DIODE SMALL SIG 100V 0.2A DO35	D6	RAD-DIODE-0.2	MDG-DIO-000002	1
LED1	Typical RED GaAs LED	D7	LED	LED1	1
3 POS HEADER	3 POS HEADER	P1	JST_3P-SCN		1
4 POS HEADER	4 POS HEADER	P2	JST_4P-SCN		1
2 POS HEADER	2 POS HEADER	P5	JST_2P-SCN		1
Header 6	Header, 6-Pin	P8	JST_6P-SCN	Header 6	1
3x3 Header	3x3 Header	P9	3x3 Header		1
Header 3X2	Header, 3-Pin, Dual row	P10	HDR2X3	Header 3X2	1
AOI510	MOSFET N-CH 30V 70A TO251A	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9	TO-220 w/ Heatsink - no outline	MDG-TRN-000028	9
10, 1%	RES 10 OHM 1/8W 1% 0805	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12	RAD-0.1	MDG-RES-000129	12
100, 1%	RES 10 OHM 1/8W 1% 0805	R13	RAD-0.1	MDG-RES-000129	1
100k, 1%	RES 100k OHM 1/8W 1% 0805	R14	RAD-0.1	MDG-RES-000129	1
?		R15, R17	RAD-0.1		2
100k		R16	RAD-0.1		1
10k		R18, R19	RAD-0.1		2
1k		R20	RAD-0.1		1
SW TACT	SWITCH TACTILE SPST-NO 0.05A 12V	SW1	Tactile Switch	SW TACT	1
IR2302	IC DRIVER HALF BRIDGE 8DIP	U1, U2, U3, U4	DIP-8		4
L78S12CV	IC REG 12V	U5, U6	TO-220 w/ Heatsink - no outline - numbers		2
XTAL	Crystal Oscillator	Y1	Crystal	XTAL	1