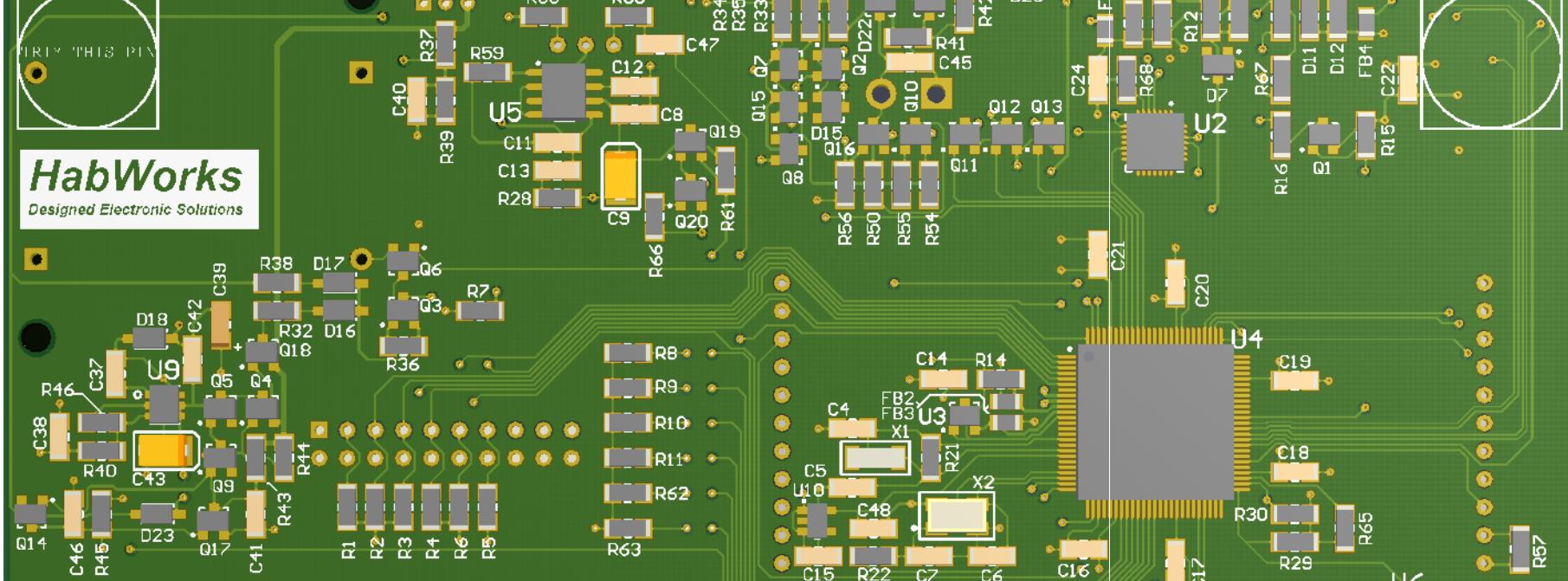


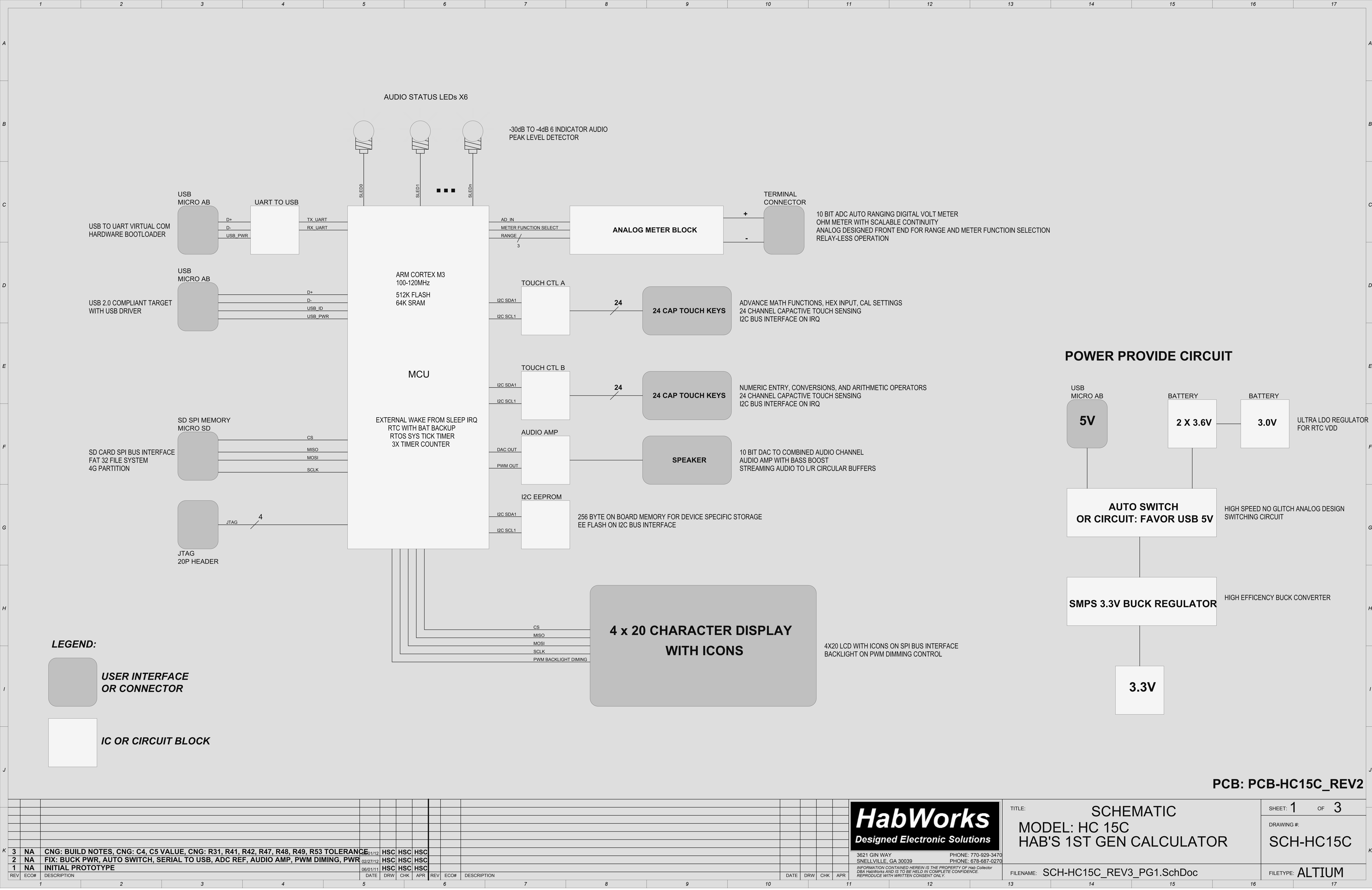
HabWorks
Designed Electronic Solutions

Z / Y (Z-Y)	X (X-Y)
Z X	Y X
X Y	Z Y
P R	T O P
R T	O P
P T	O R
T P	R O
X < Y	Z < Y
Y < Z	Z < X
Z < X	X < Y
X = {	Y = }
Y = }	X = {

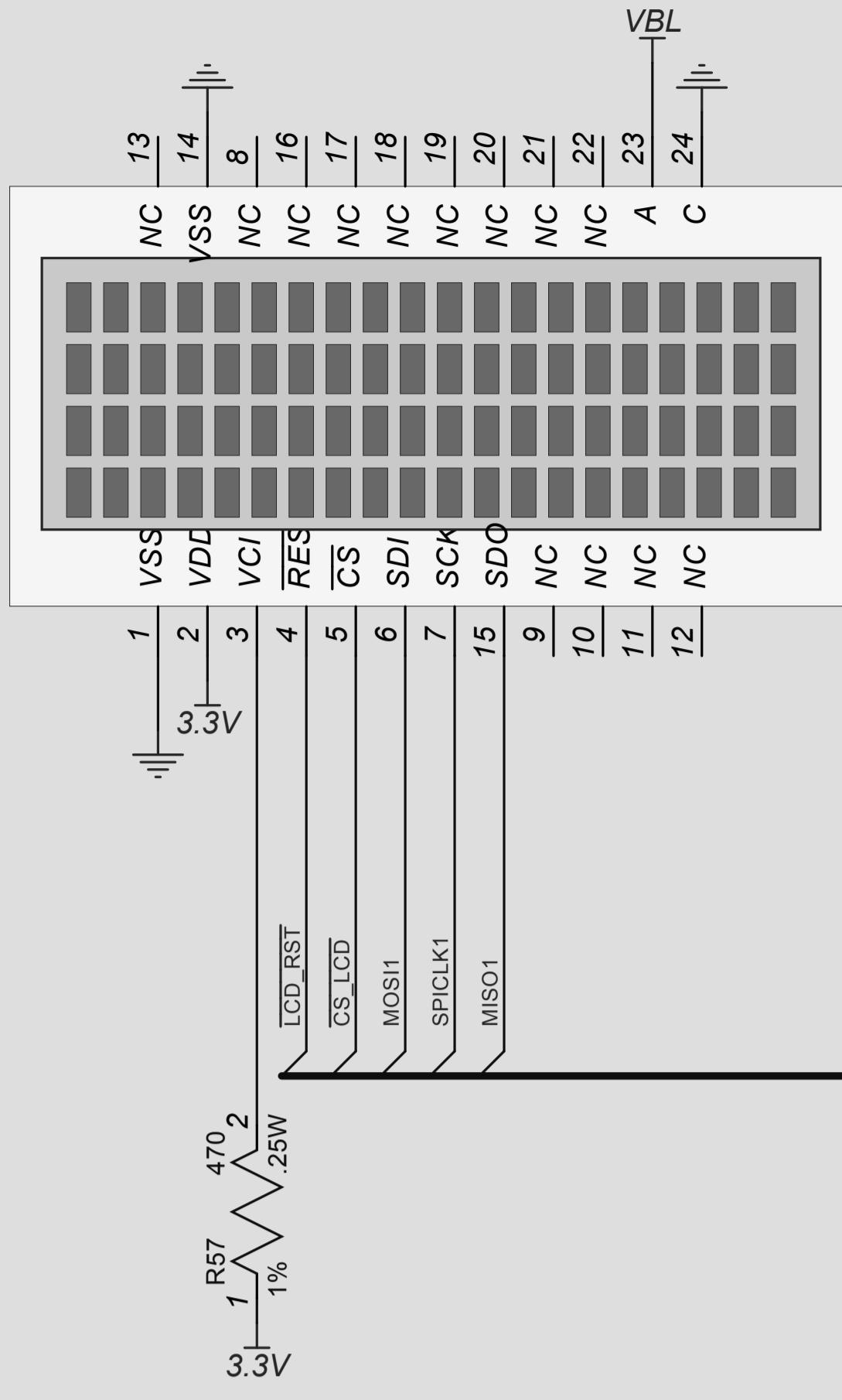


METER SPECS:
SINGLE ENDED POSITIVE
MAX INPUT 30V
AUTO RANGING
ERROR: +/- 1%
MIN TRACKING
4 DIGIT READ OUT
ADJUSTABLE CONTINUITY





DISPLAY 4X20 CHARACTER WITH ICON AND BACKLIGHT



IMPORTANT NOTES:
1. LCD BEFORE INSTALL: OPEN SOLDER LINK 4/8 AND CLOSE SPI SIDE
2. D8, D9, D11, D12 INSTALL BETTER DEVICE THAN LISTED OR DO NOT INSTALL
3. XTAL1, R44, R45, R46, R47 NOT INTENDED FOR POPULATION
4. R88 NOT INTENDED FOR POPULATION
5. R21, R22 NOT INTENDED FOR POPULATION

3.3VFB2 200mA 3.3VA
1 3.3VFB2 200mA 3.3VA
2 BLM21AG102SN1D
3 1R14 357 25W
4 FB3 200mA
5 BLM21AG102SN1D
6 GND
7 VREF30

RESET

MC RST

C3
0.1uF
50V

R20
1%
25W

D10
1N4148W

GND

VDDA
3.3V

VSSA
GND

VREFP
3.3V

SYS_RST
NC

RSTOUT
NC

VREFN
3.3V

RTC1X
NC

RESET
NC

RTC2X
NC

VBAT
NC

VBUS
NC

P1:31
NC

P1:30
NC

XTAL1
NC

XTAL2
NC

SCL0
NC

SDA0
NC

P0:27
NC

P3:25
NC

P0:29
NC

P0:30
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P0:31
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P0:32
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P0:20
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P0:19
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P0:18
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P0:17
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P0:16
NC

P0:15
NC

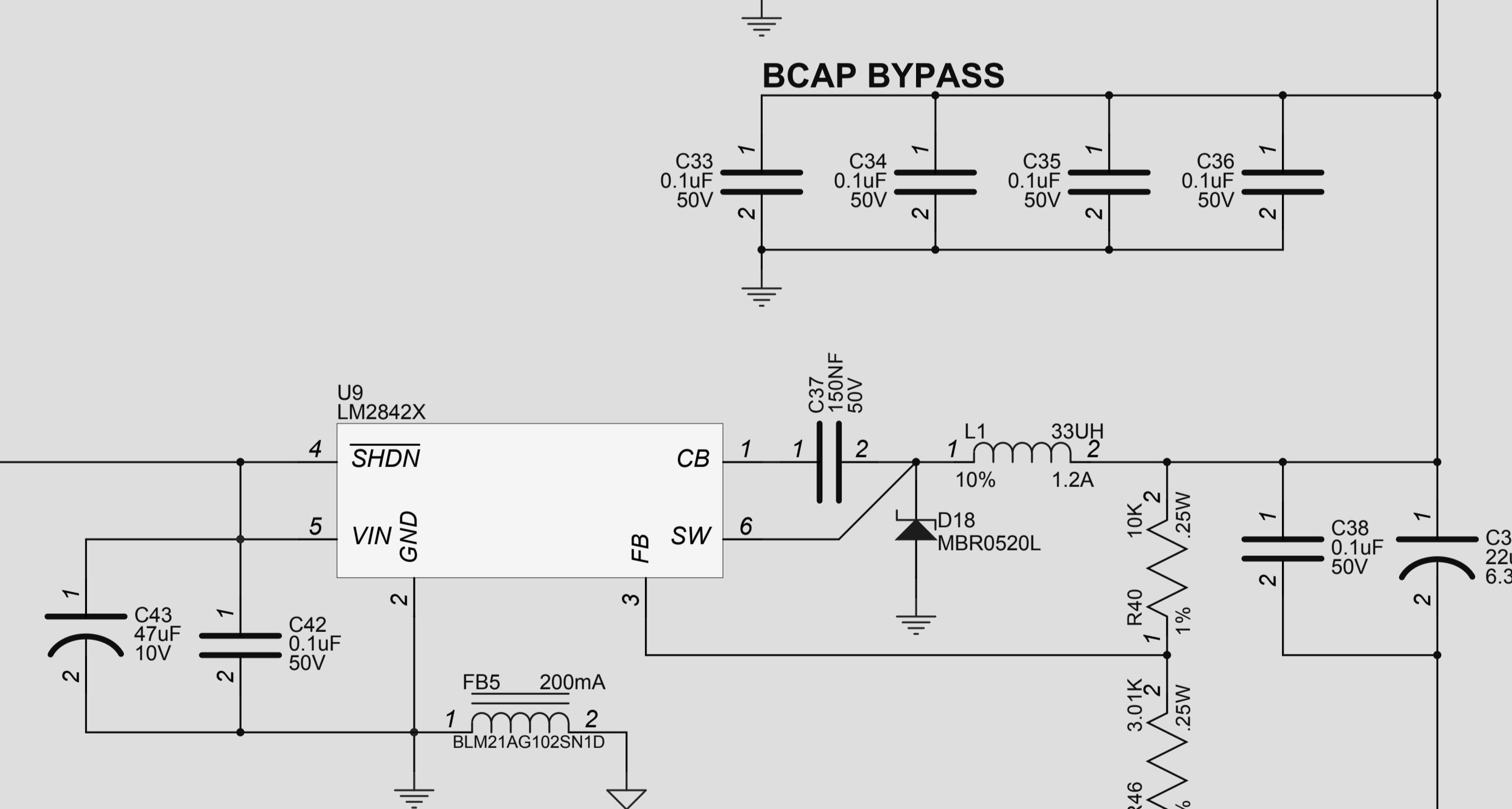
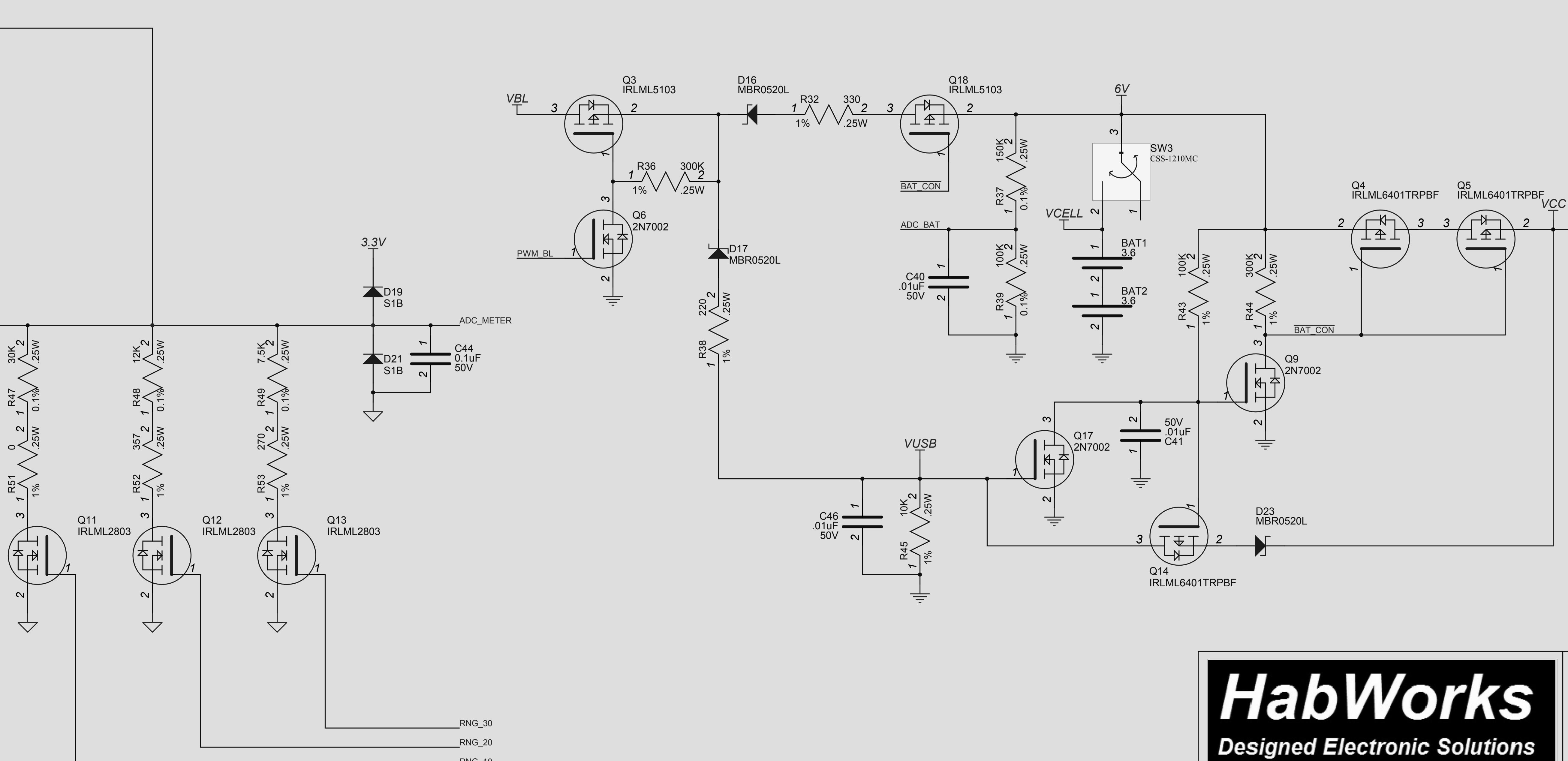
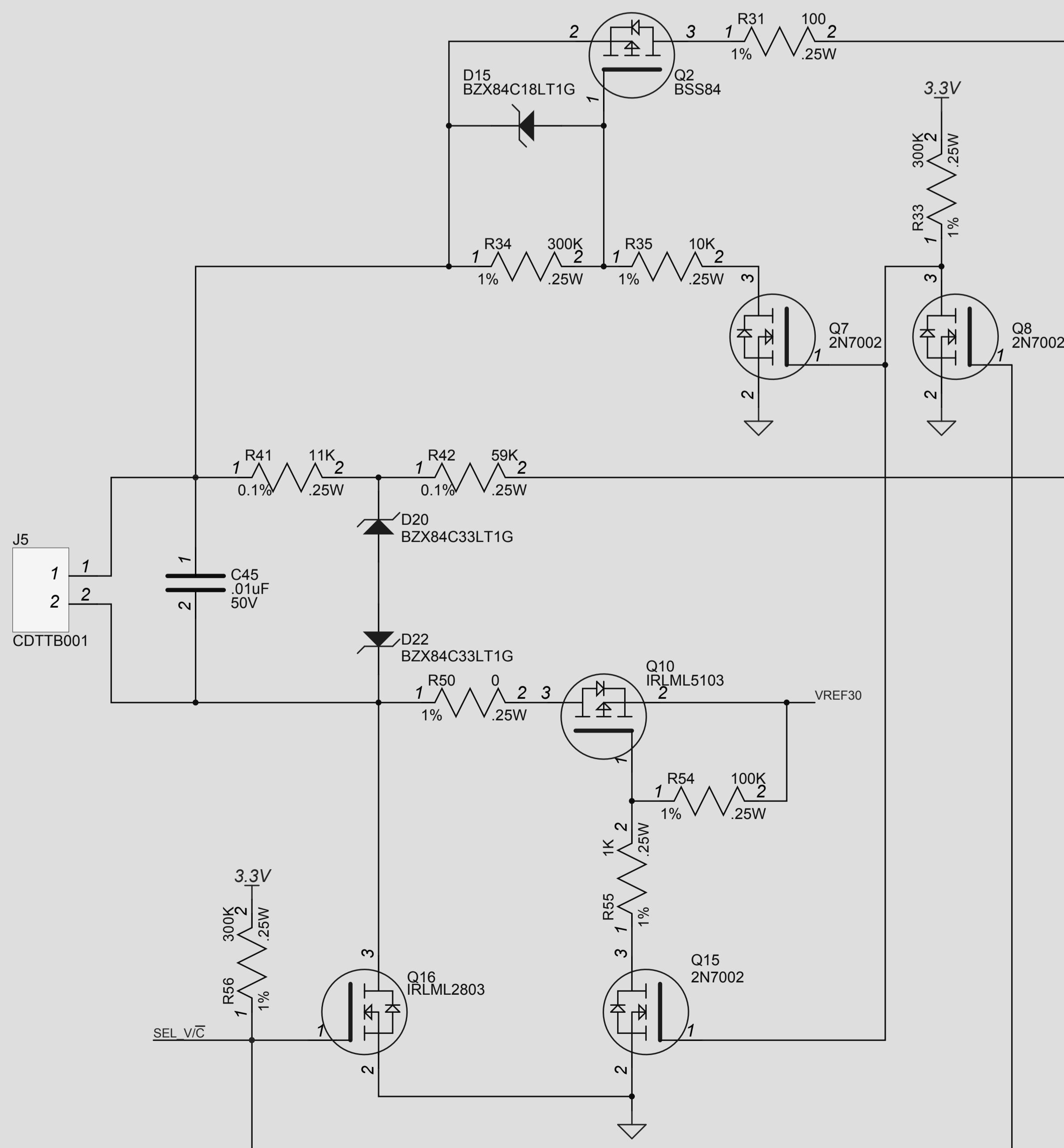
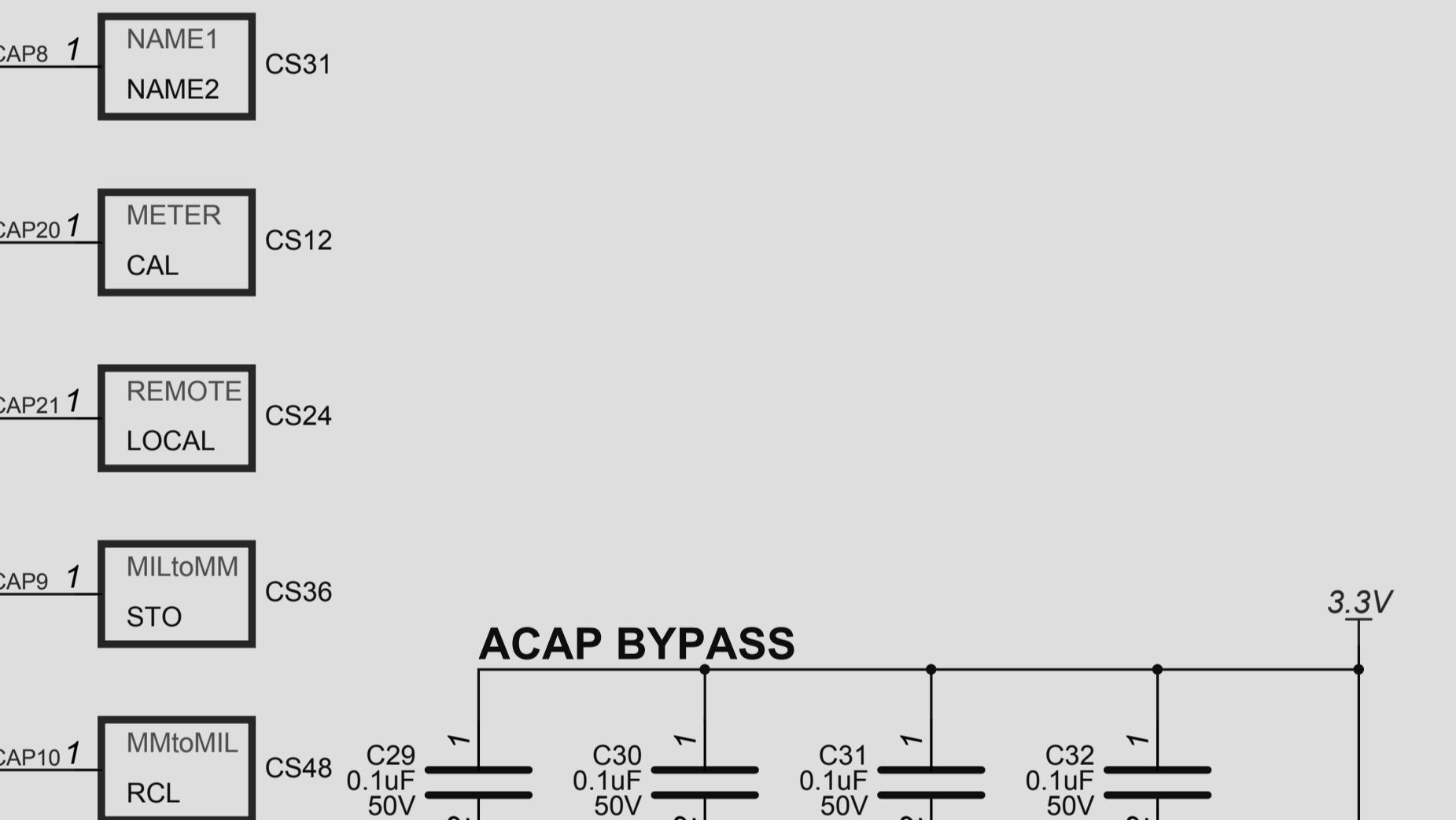
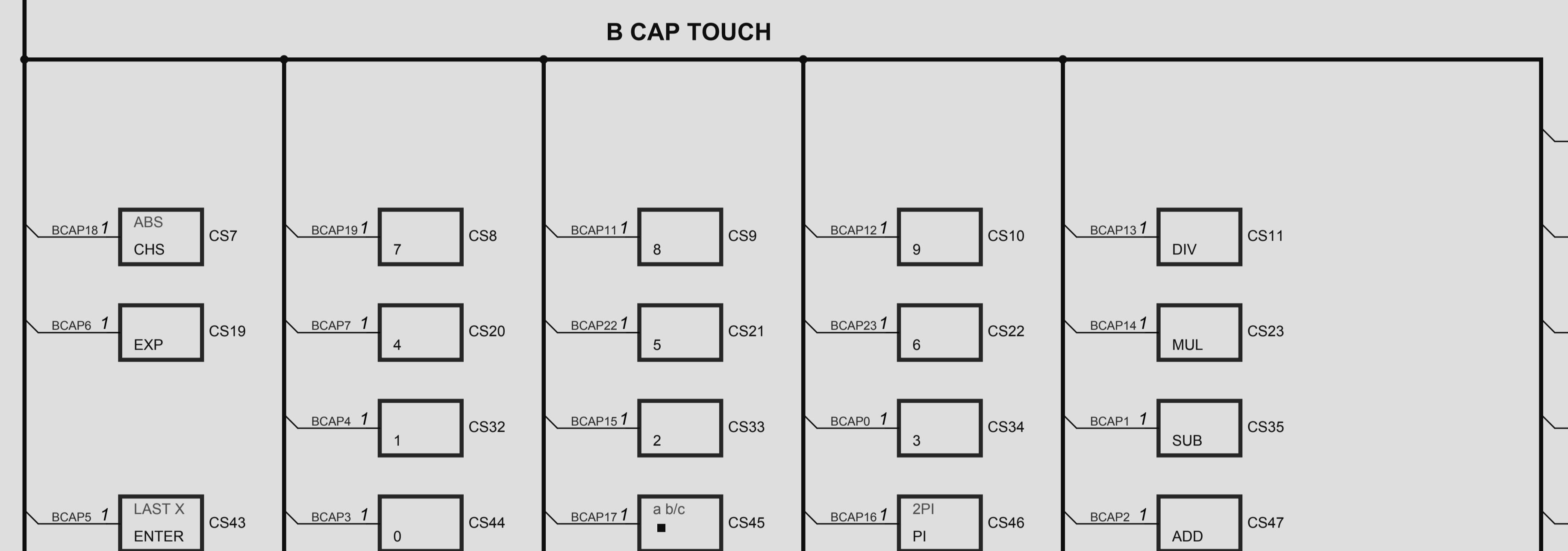
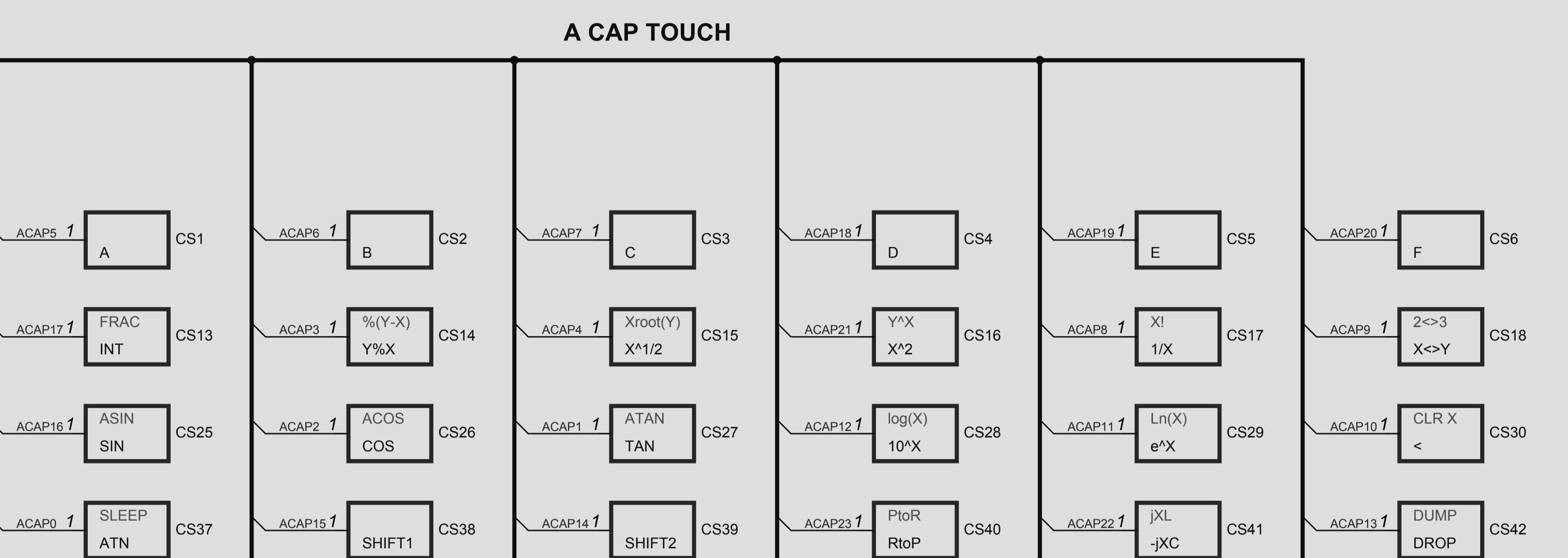
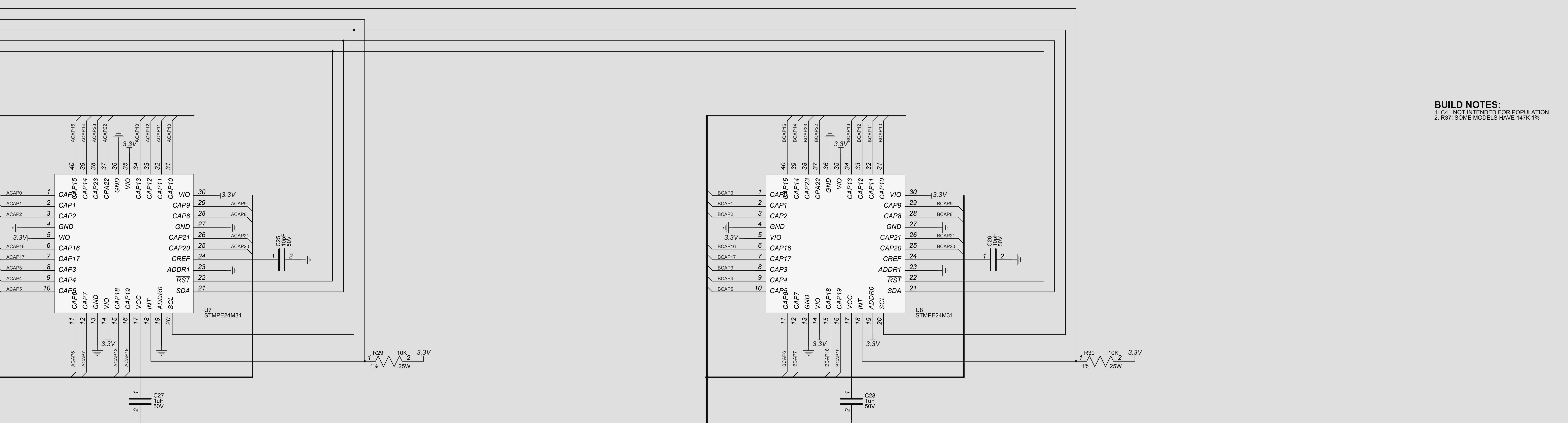
P0:14
NC

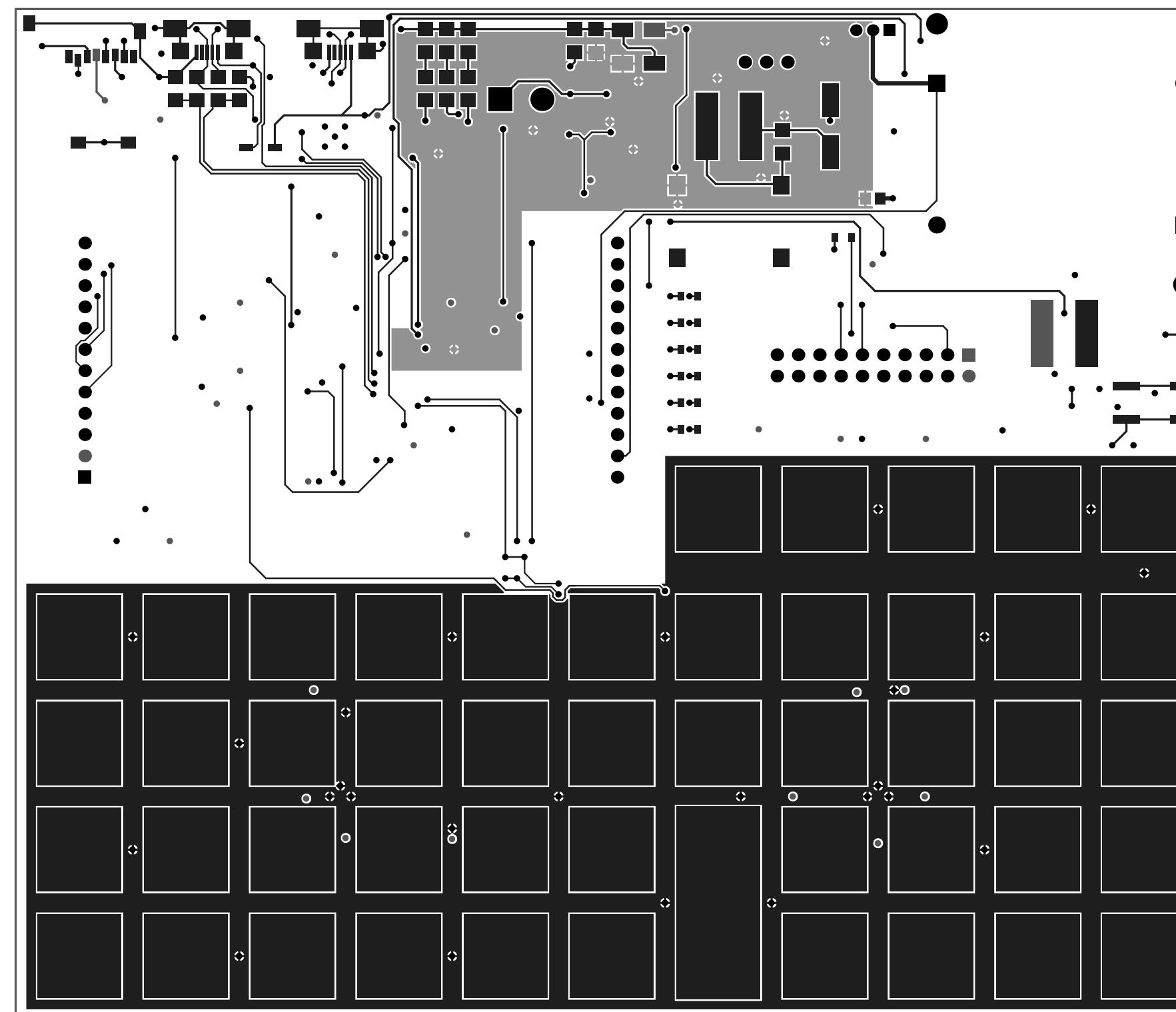
P0:13
NC

P0:12
NC

P0:11
NC

P





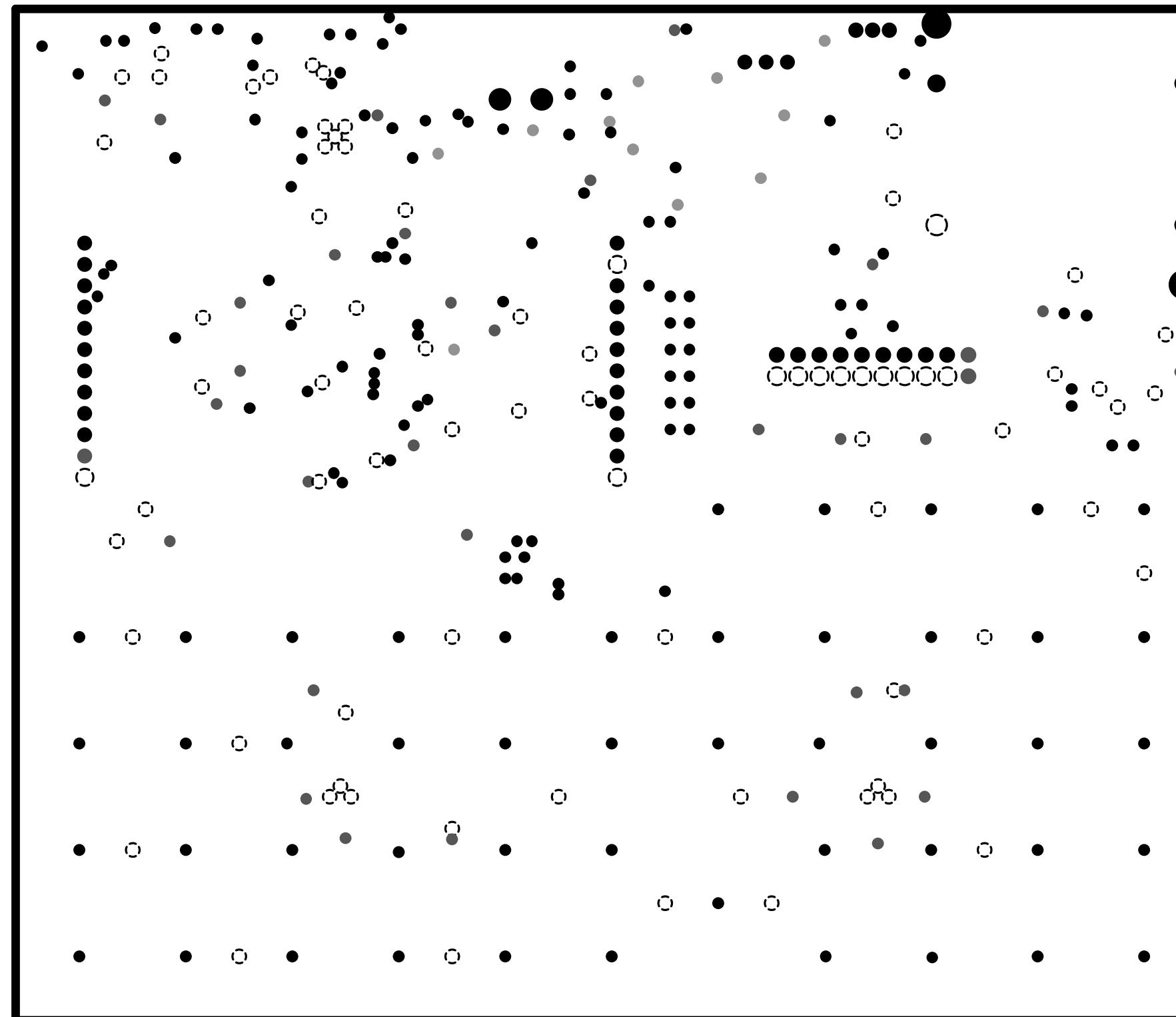
TOP

A	2	NA	CIRCUIT FIX, BAT1, J2, J3, J5, & U5 PKG FIX J4 ROTATE 180, X2, D16, D17, D23 NEW PKG	03/04/12	HSC	HSC	HSC							
	1	NA	NA	06/15/11	HSC	HSC	HSC							
REV	ECO	ECO DESCRIPTION:		DATE	PWR	CHK	APR	REV	ECO	ECO DESCRIPTION:	DATE	PWR	CHK	APR



INFORMATION HEREIN CONTAINED IS THE PROPERTY OF
SYNCHRONY LIGHTING CONTROLS AND IS TO BE HELD IN
CONFIDENCE.

SEE CDSEA00020 FOR MANUFACTURERS & DETAILED MATERIAL SPECS. NEMA RATED FR4, .06S", 1OZ CU X LAYERS, UL & CSA RECOGNIZED PCB TO BE MARKE 94V-0 BY PCB VENDOR	2 PLACE DECIMAL +/-0.01 3 PLACE DECIMAL +/-0.005 ANGLES +/-2 DEG	1:1	2
MATERIAL DESCRIPTION AND FINISH	TOLERANCE UNLESS NOTED	SCALE	REV
TITLE:	SHEET:	OF:	
MODEL: HC 15C	DRAWING NO:		
FILENAME:PCB-HC15C_REV2.PcbDoc	FILETYPE: ALTIUM	SHEET: B SIZE	



PLANE 1 GND

2	NA	CIRCUIT FIX, BAT1, J2, J3, J5, & U5 PKG FIX J4 ROTATE 180, X2, D16, D17, D23 NEW PKG	03/04/12	HSC	HSC	HSC			
1	NA	NA	06/15/11	HSC	HSC	HSC			



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SEE CDSEA00020 FOR MANUFACTURERS & DETAILED MATERIAL SPECS.
NEMA RATED FR4, .06S", 1OZ CU X LAYERS, UL & CSA RECOGNIZED
PCB TO BE MARKE 94V-0 BY PCB VENDOR

	MATERIAL DESCRIPTION AND FINISH
TITLE:	

MODULE. NO. 150

2 PLACE DECIMAL +/-0.01 3 PLACE DECIMAL +/-0.005 ANGLES +/-2 DEG	1:1	2
--	-----	---

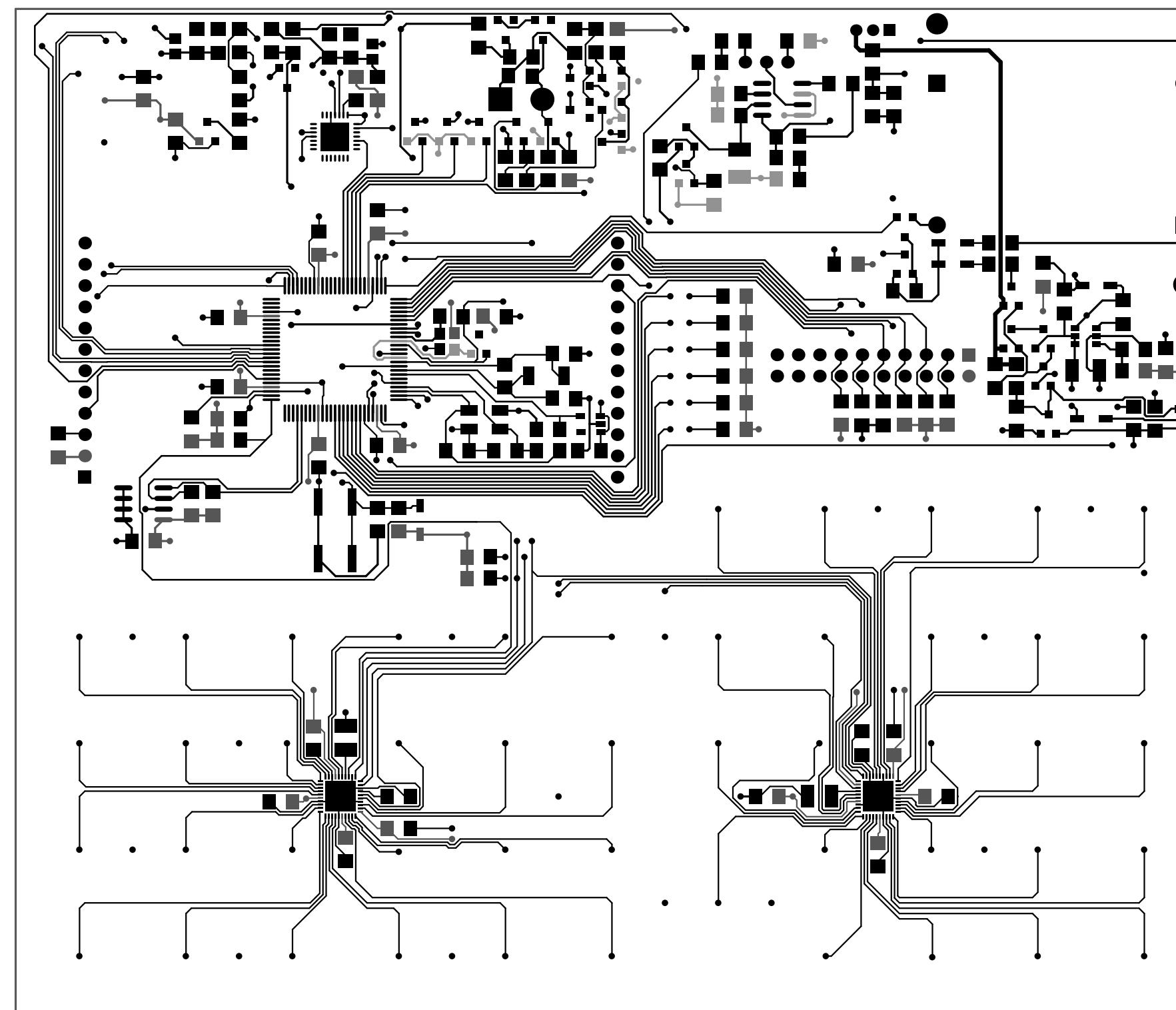
TOLERANCE UNLESS NOTED	SCALE	REV
SHEET:	OF:	
DRAWING NO.:		

DRAWING NO.
PCB-HC15C

This figure is a scatter plot illustrating the spatial distribution of data points across a grid. The x-axis and y-axis both range from 0 to 100, with major tick marks at intervals of 10. The data points are represented by small circles, where the color indicates the magnitude of the value at that specific coordinate. A grayscale legend is provided on the right side of the plot area, showing a gradient from white (representing the lowest values) through light gray, medium gray, and dark gray to black (representing the highest values). The distribution shows several distinct features: a dense vertical column of black points on the far left; a horizontal band of black points near the bottom center; and various scattered clusters of points throughout the middle and upper regions, with some points having a slight transparency.

PLANE 2 3.3V

B	SEE CDSEA00020 FOR MANUFACTURERS & DETAILED MATERIAL SPECS. NEMA RATED FR4, .06S", 1OZ CU X LAYERS, UL & CSA RECOGNIZED PCB TO BE MARKE 94V-0 BY PCB VENDOR												2 PLACE DECIMAL +/-0.01 3 PLACE DECIMAL +/-0.005 ANGLES +/-2 DEG	1:1	2			
	MATERIAL DESCRIPTION AND FINISH												TOLERANCE UNLESS NOTED	SCALE	REV			
A	 HabWorks Designed Electronic Solutions												TITLE:	SHEET:	OF:			
	MODEL: HC 15C												DRAWING NO:	PCB-HC15C				
	FILENAME: PCB-HC15C_REV2.PcbDoc												FILETYPE: ALTIUM	SHEET: B SIZE				
	REV	ECO	DESCRIPTION:			DATE	DWR	CHK	APR	REV	ECO	DESCRIPTION:			DATE	DWR	CHK	APR
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

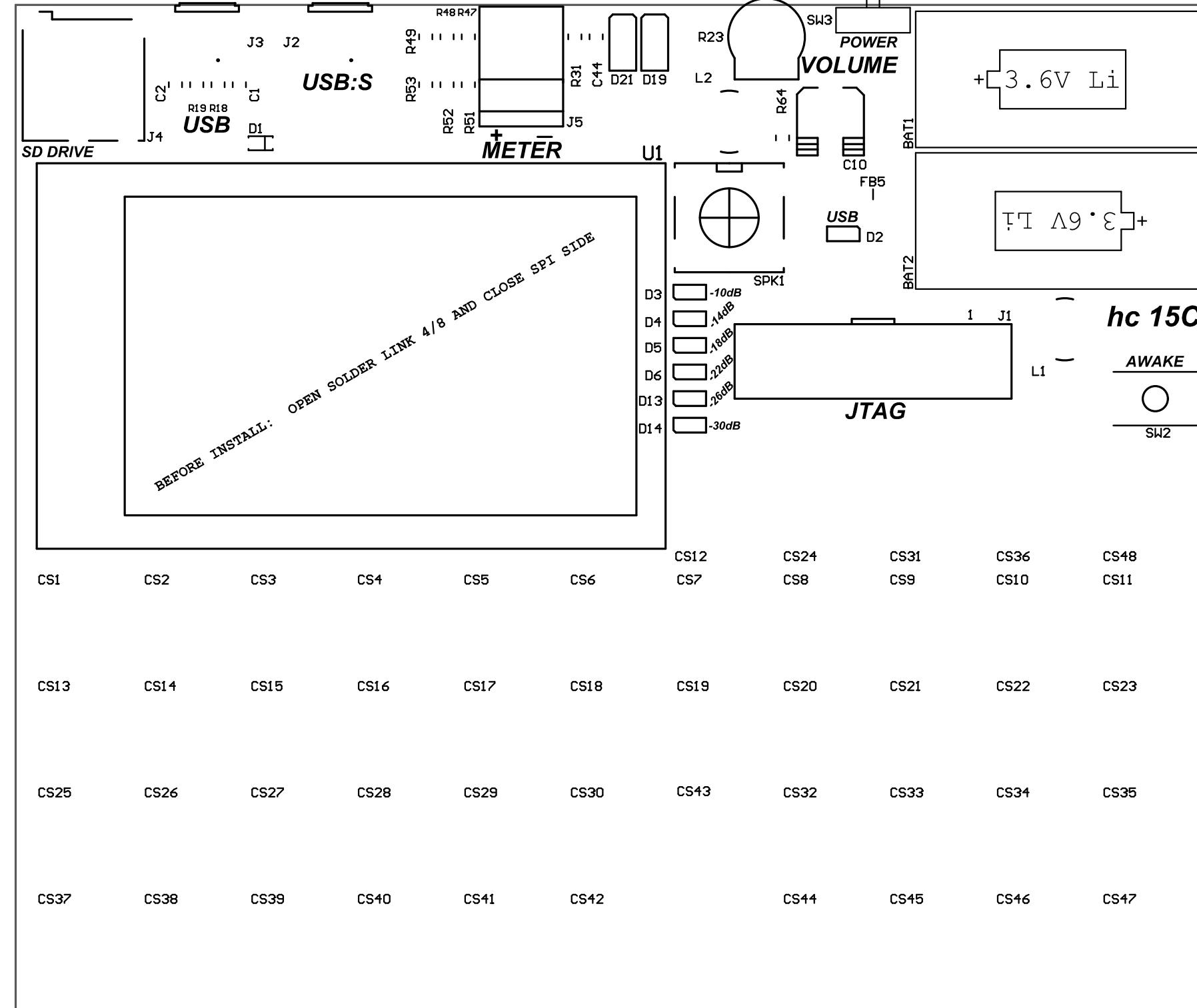


BOTTOM



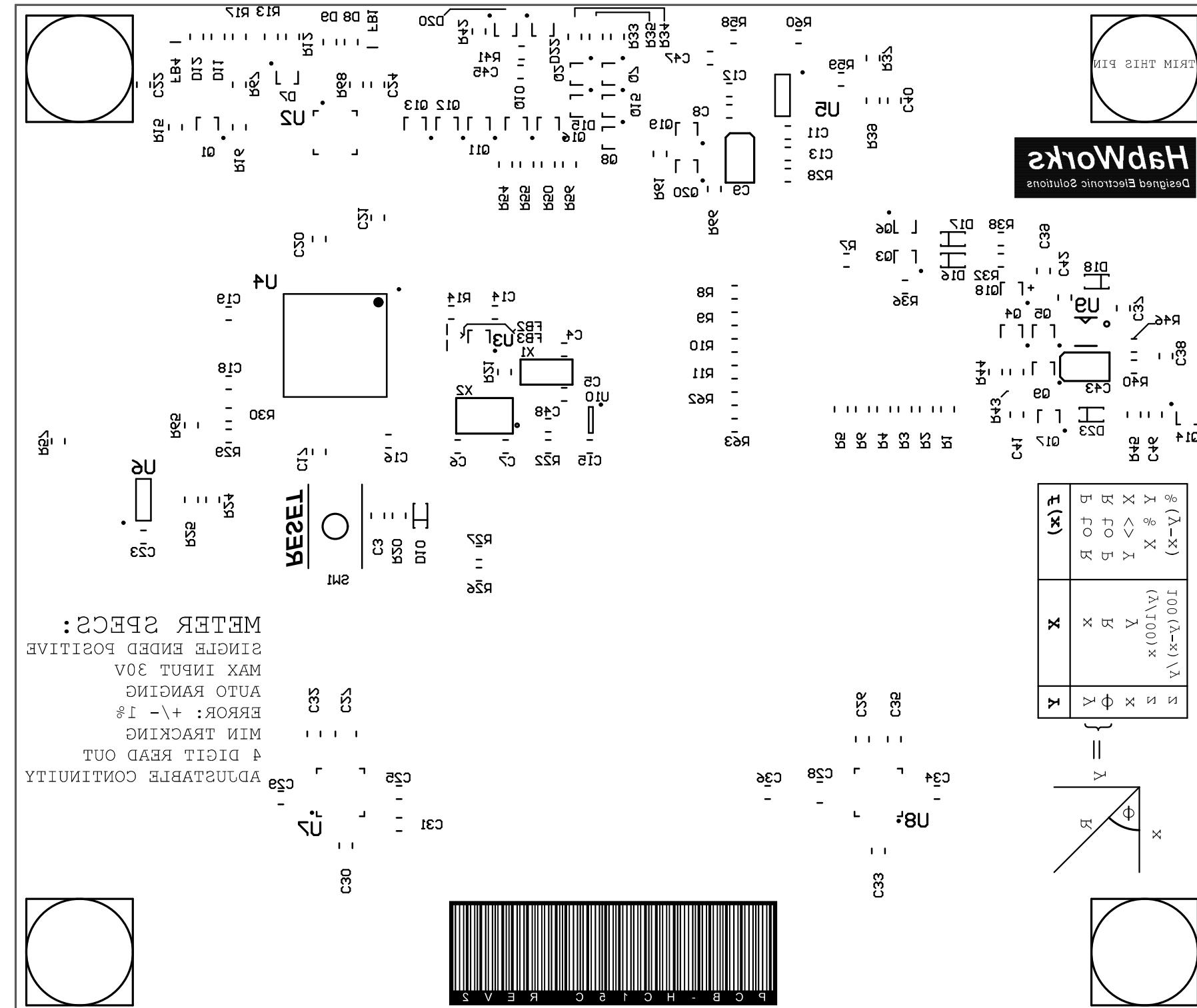
**INFORMATION HEREIN CONTAINED IS THE PROPERTY OF
SYNERGY LIGHTING CONTROLS AND IS TO BE HELD IN**

SEE CDSEA00020 FOR MANUFACTURERS & DETAILED MATERIAL SPECS. NEMA RATED FR4, .06S", 1OZ CU X LAYERS, UL & CSA RECOGNIZED PCB TO BE MARKE 94V-0 BY PCB VENDOR	2 PLACE DECIMAL +/-0.01 3 PLACE DECIMAL +/-0.005 ANGLES +/-2 DEG	1:1	2
MATERIAL DESCRIPTION AND FINISH	TOLERANCE UNLESS NOTED	SCALE	REV
TITLE: MODEL: HC 15C	SHEET: OF: DRAWING NO: PCB-HC15C		
FILENAME:PCB-HC15C_REV2.PcbDoc	FILETYPE: ALTIUM	SHEET: B SIZE	



TOP SILK

												SEE CDSEA00020 FOR MANUFACTURERS & DETAILED MATERIAL SPECS. NEMA RATED FR4, .06S", 1OZ CU X LAYERS, UL & CSA RECOGNIZED PCB TO BE MARKE 94V-0 BY PCB VENDOR				2 PLACE DECIMAL +/-0.01 3 PLACE DECIMAL +/-0.005 ANGLES +/-2 DEG	1:1	2
												MATERIAL DESCRIPTION AND FINISH				TOLERANCE UNLESS NOTED	SCALE	REV
												HabWorks Designed Electronic Solutions						
												INFORMATION HEREIN CONTAINED IS THE PROPERTY OF SYNERGY LIGHTING CONTROLS AND IS TO BE HELD IN COMPLETE CONFIDENCE. REPRODUCED WITH WRITTEN CONSENT ONLY.						
2	NA	CIRCUIT FIX, BAT1, J2, J3, J5, & U5 PKG FIX J4 ROTATE 180, X2, D16, D17, D23 NEW PKG			03/04/12	HSC	HSC	HSC										
1	NA	NA			06/15/11	HSC	HSC	HSC										
REV	ECO	ECO DESCRIPTION:			DATE	DWR	CHK	APR	REV	ECO	ECO DESCRIPTION:			DATE	DWR	CHK	APR	
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BOTTOM SILK

SEE CDSEA00020 FOR MANUFACTURERS & DETAILED MATERIAL SPECS.
NEMA RATED FR4, .06S", 1OZ CU X LAYERS, UL & CSA RECOGNIZED
PCB TO BE MARKE 94V-0 BY PCB VENDOR

MATERIAL DESCRIPTION AND FINISH

2 PLACE DECIMAL +/-0.01
3 PLACE DECIMAL +/-0.005
ANGLES +/-2 DEG

1:1 2

TOLERANCE UNLESS NOTED SCALE REV

TITLE:
MODEL: HC 15C
DRAWING NO:
PCB-HC15C

FILENAME: PCB-HC15C_REV2.PcbDoc

FILETYPE: ALTIUM SHEET: B SIZE

J

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H

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A

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REV ECO ECO DESCRIPTION: DATE DWR CHK APR REV ECO ECO DESCRIPTION: DATE DWR CHK APR

2 NA CIRCUIT FIX, BAT1, J2, J3, J5, & U5 PKG FIX
J4 ROTATE 180, X2, D16, D17, D23 NEW PKG

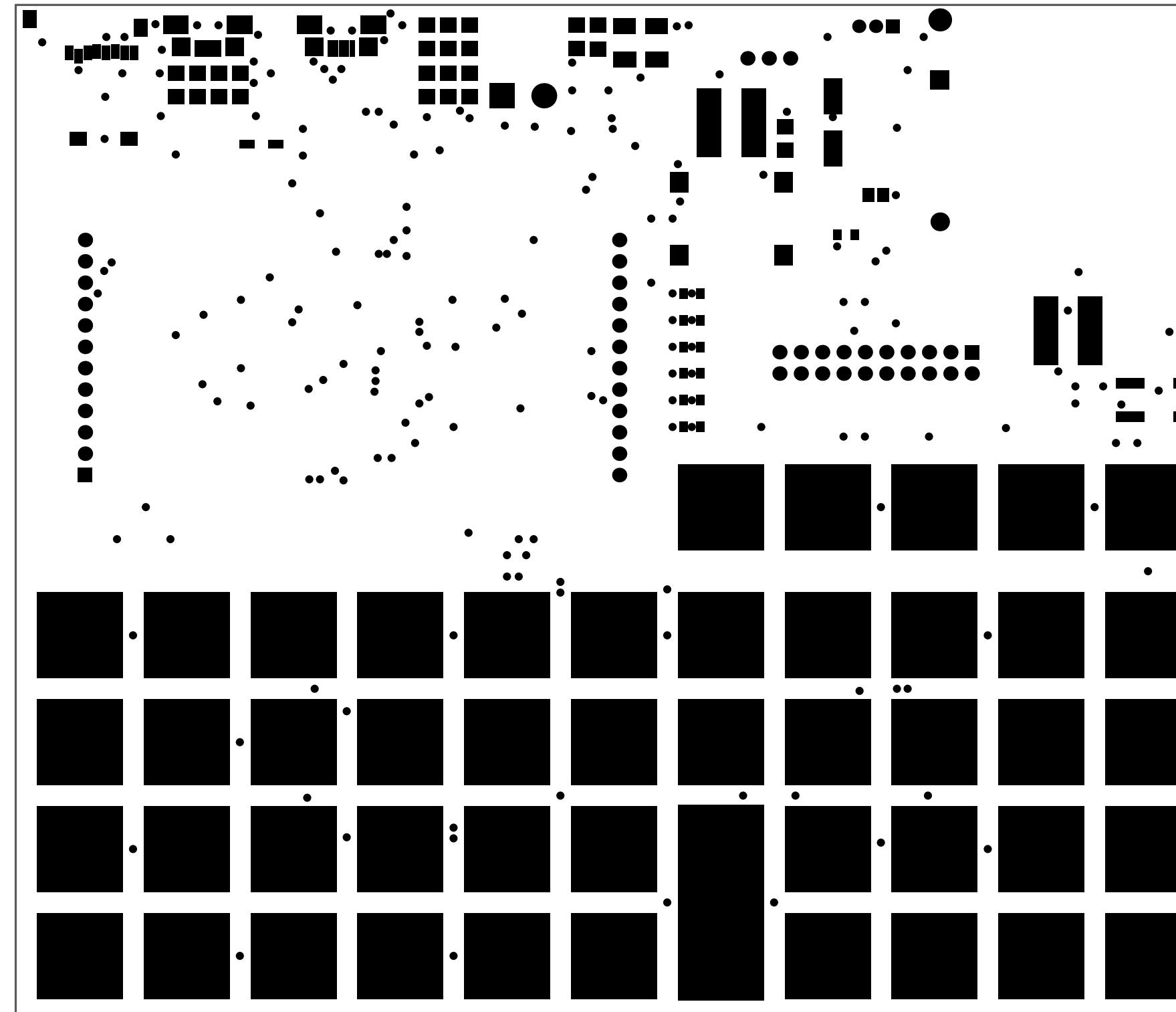
03/04/12 HSC HSC HSC

1 NA NA

06/15/11 HSC HSC HSC



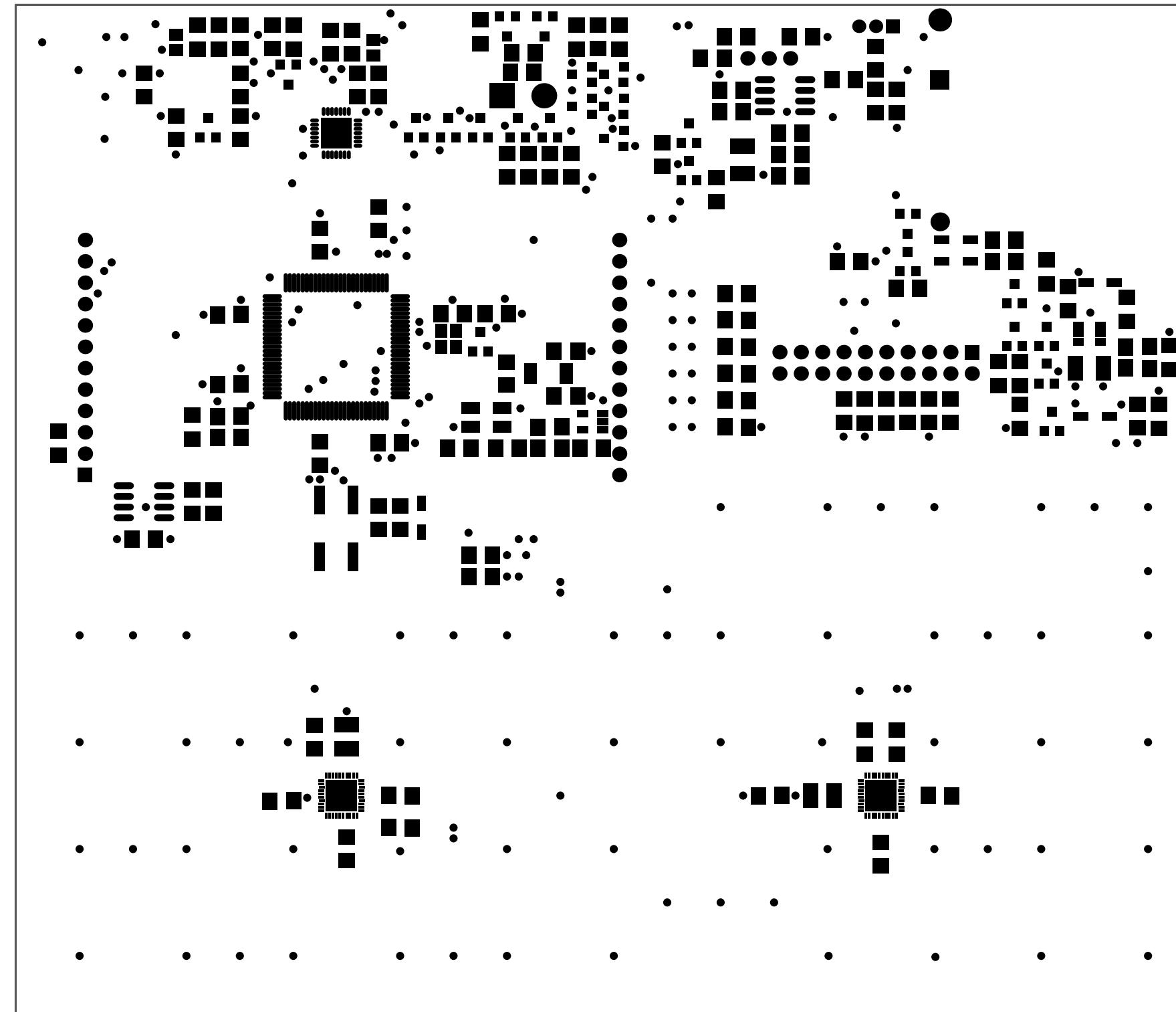
INFORMATION HEREIN CONTAINED IS THE PROPERTY OF
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COMPLETE CONFIDENCE.
REPRODUCE WITH WRITTEN CONSENT ONLY.



TOP SOLDER MASK

												SEE CDSEA00020 FOR MANUFACTURERS & DETAILED MATERIAL SPECS. NEMA RATED FR4, .06S", 1OZ CU X LAYERS, UL & CSA RECOGNIZED PCB TO BE MARKE 94V-0 BY PCB VENDOR				2 PLACE DECIMAL +/-0.01 3 PLACE DECIMAL +/-0.005 ANGLES +/-2 DEG	1:1	2
												MATERIAL DESCRIPTION AND FINISH				TOLERANCE UNLESS NOTED	SCALE	REV
												HabWorks Designed Electronic Solutions						
												INFORMATION HEREIN CONTAINED IS THE PROPERTY OF SYNERGY LIGHTING CONTROLS AND IS TO BE HELD IN COMPLETE CONFIDENCE. REPRODUCED WITH WRITTEN CONSENT ONLY.						
2	NA	CIRCUIT FIX, BAT1, J2, J3, J5, & U5 PKG FIX J4 ROTATE 180, X2, D16, D17, D23 NEW PKG			03/04/12	HSC	HSC	HSC										
1	NA	NA			06/15/11	HSC	HSC	HSC										
REV	ECO	ECO DESCRIPTION:			DATE	DWR	CHK	APR	REV	ECO	ECO DESCRIPTION:			DATE	DWR	CHK	APR	
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TITLE: **MODEL: HC 15C**
 SHEET: OF:
 DRAWING NO:
PCB-HC15C
 FILENAME:**PCB-HC15C_REV2.PcbDoc**
 FILETYPE: ALTIUM SHEET: B SIZE



BOTTOM SOLDER MASK

												SEE CDSEA00020 FOR MANUFACTURERS & DETAILED MATERIAL SPECS. NEMA RATED FR4, .06S", 1OZ CU X LAYERS, UL & CSA RECOGNIZED PCB TO BE MARKE 94V-0 BY PCB VENDOR				2 PLACE DECIMAL +/-0.01 3 PLACE DECIMAL +/-0.005 ANGLES +/-2 DEG	1:1	2
												MATERIAL DESCRIPTION AND FINISH				TOLERANCE UNLESS NOTED	SCALE	REV
												HabWorks Designed Electronic Solutions						
												INFORMATION HEREIN CONTAINED IS THE PROPERTY OF SYNERGY LIGHTING CONTROLS AND IS TO BE HELD IN COMPLETE CONFIDENCE. REPRODUCED WITH WRITTEN CONSENT ONLY.						
2 NA CIRCUIT FIX, BAT1, J2, J3, J5, & U5 PKG FIX J4 ROTATE 180, X2, D16, D17, D23 NEW PKG												TITLE: MODEL: HC 15C						SHEET: OF: DRAWING NO: PCB-HC15C
1 NA NA												FILENAME:PCB-HC15C_REV2.PcbDoc						FILETYPE: ALTIUM SHEET: B SIZE
REV	ECO	ECO DESCRIPTION:		DATE	DWR	CHK	APR	REV	ECO	ECO DESCRIPTION:		DATE	DWR	CHK	APR			
1	2	3		4	5	6	7	8	9	10		11	12	13	14	15	16	

Symbol	Hit Count	Tool Size	Plated	Hole Type
□	258	15mil <0.381mm>	PTH	Round
▽	27	30mil <0.762mm>	PTH	Round
○	3	31.496mil <0.8mm>	PTH	Round
◊	20	35mil <0.889mm>	PTH	Round
×	4	45mil <1.143mm>	PTH	Round
✗	2	66.929mil <1.7mm>	PTH	Round
✚	2	100mil <2.54mm>	NPTH	Round
316 Total				

PCB FABRICATION NOTES:

MATERIAL:

FR4 (GF per MIL-P-13949) MIN UL 94V0

Cu WEIGHT:

OUTER LAYER: 1oz
INNER LAYER: STANDARD

SOLDER MASK:

TYPE: LPI (LQUID PHOTO-IMAGE)
COVER: SMOBC (SOLDER MASK OVER BARE Cu)
COLOR: GREEN

OVERALL PCB THICKNESS:

PCB: 62MIL
TOLERANCE: 7MIL

PCB ELECTRICAL TEST

TESTED TO GERBER DATA
PURCHASE ORDER TO OVERRIDE

HOLE DIAMETER TOLERANCE:

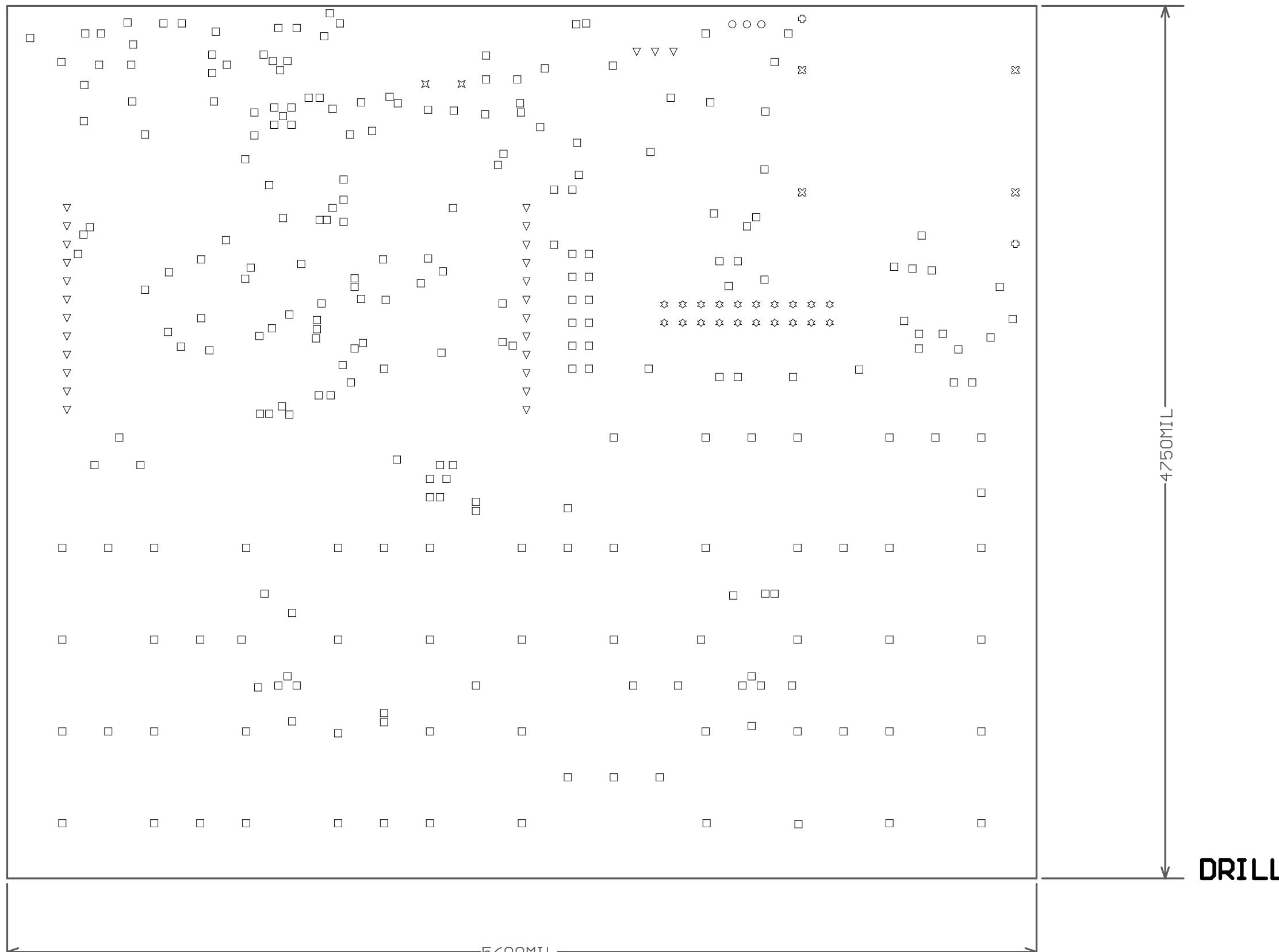
PLATED HOLE TOLERANCE: 3MIL
NON PLATED HOLE TOLERANCE: 3MIL

SILK SCREEN

SIDES: TOP AND BOTTOM
COLOR: WHITE

ACCEPTABILITY:

STANDARD: IPC-A-600 (LATEST REV)
MFG TO ADD: DATE CODE, UL FLAME CODE



SEE CDSEA00020 FOR MANUFACTURERS & DETAILED MATERIAL SPECS.
NEMA RATED FR4, .06S", 1OZ CU X LAYERS, UL & CSA RECOGNIZED
PCB TO BE MARKE 94V-0 BY PCB VENDOR

MATERIAL DESCRIPTION AND FINISH

2 PLACE DECIMAL +/-0.01
3 PLACE DECIMAL +/-0.005
ANGLES +/-2 DEG

1:1 2

TOLERANCE UNLESS NOTED

SCALE REV



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COMPLETE CONFIDENCE.
REPRODUCED WITH WRITTEN CONSENT ONLY.

TITLE:

MODEL: HC 15C

SHEET: OF:

DRAWING NO:

PCB-HC15C

FILENAME:PCB-HC15C_REV2.PcbDoc

FILETYPE: ALTIUM SHEET:
B SIZE

REV	NA	CIRCUIT FIX, BAT1, J2, J3, J5, & U5 PKG FIX J4 ROTATE 180, X2, D16, D17, D23 NEW PKG				03/04/12	HSC	HSC	HSC						
REV	ECO	ECO DESCRIPTION:		DATE	DWR	CHK	APR	REV	ECO	ECO DESCRIPTION:		DATE	DWR	CHK	APR
2	NA														
1	NA	NA		06/15/11	HSC	HSC	HSC								

Comment	Quantity	Description	Designator	MFG	MFG_PN	Supplier 1	Supplier Part Number
CDEVA00082_3	2	BAT HOLDER 1/2AA TH ROHS	BAT1, BAT2	KEYSTONE	108	Digi-Key	108KK-ND
CDECA00095	4	CAP, CERAMIC, NPO, 18PF, 50V, 1206, 5%, RoHS	C1, C2, C6, C7	YAGEO	CC1206JRNPO9BN180	Digi-Key	311-1152-1-ND
			C3, C8, C12, C14 C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C29, C30, C31, C32, C33, C34, C35, C36, C38, C42, C44,				
CDECA00070	27	CAP, CERAMIC CHIP 0.1UF 10% 50V X7R ROHS	C47, C48	AVX	12065C104KAT2A	Digi-Key	478-1556-1-ND
CDECA00143_4	2	CAP, CERAMIC, X7R, 22PF, 50V, 1206, 10%, RoHS	C4, C5	YAGEO	CC1206JRNPO9BN220	Digi-Key	311-1154-1-ND
CDECA00139_2	1	CAP, TANT, 220UF, 6.3V, 20%, LOW ESR, 3528, ROHS	C9	KEMET	T520B227M006ATE070	Digi-Key	399-5756-1-ND
CDECA00110_2	1	CAP, ALE, 220UF, 10V, 20%, SM ROHS	C10	NICHICON	UWX1A221MCL1GB	Digi-Key	493-2098-1-ND
CDECA00143_3	1	CAP, CERAMIC, X7R, 33NF, 50V, 1206, 10%, RoHS	C11	YAGEO	CC1206KRX7R9BB333	Digi-Key	311-1177-1-ND
CDECA00143_2	1	CAP, CERAMIC, X7R, 47NF, 50V, 1206, 10%, RoHS	C13	YAGEO	CC1206KRX7R9BB473	Digi-Key	311-1178-1-ND
CDECA00143	2	CAP, CERAMIC, NPO, 10PF, 50V, 1206, 5%, RoHS	C25, C26	AVX	12065A100DAT2A	Digi-Key	478-5053-1-ND
CDECA00122	2	CAP, CERAMIC CHIP 1UF 10% 50V X7R ROHS	C27, C28	AVX	GRM32RR71H105K	Digi-Key	490-1863-1-ND
CDECA00143_1	1	CAP, CERAMIC, X7R, 150NF, 50V, 1206, 10%, RoHS	C37	KEMET	C0805C154K5RACTU	Digi-Key	399-3489-1-ND
CDECA00139_1	1	CAP, TANT, 22UF, 6.3V, 20%, LOW ESR, 1206ROHS	C39	AVX	TAJA226K006RNJ	Digi-Key	478-3865-1-ND
CDECA00085	4	CAP, CERAMIC CHIP 0.01UF 10% 50V X7R ROHS	C40, C41, C45, C46	PANASONIC	ECJ-1VB1H103K	Digi-Key	PCC1784CT-ND
CDECA00110_1	1	CAP, TANT, 47UF, 25V, 20%, 3528 ROHS	C43	AVX	TAJB476M010RNJ	Digi-Key	478-3891-1-ND
			CS1, CS2, CS3, CS4, CS5, CS6, CS7, CS8, CS9, CS10, CS11, CS12, CS13, CS14, CS15, CS16, CS17, CS18, CS19, CS20, CS21, CS22, CS23, CS24, CS25, CS26, CS27, CS28, CS29, CS28, CS31, CS32, CS33, CS34, CS35, CS36, CS37, CS38, CS39, CS40, CS41, CS42, CS44, CS45, CS46, CS47, CS48				
CAP_SENSOR	47	CAP SENSOR FOR PCB					
CAP_SENSOR_T	1	CAP SENSOR FOR PCB	CS43				
CDEDA00019_1	5	Diode, Schottky rectifier, 20V, 0.5A, SOD-123 package, Pb free	D1, D16, D17, D23	FAIRCHILD SEMI	MBR0520L	Digi-Key	MBR0520LCT-ND
CDELA00016_1	6	DIODE,LED GREEN 0805 SMD	D2, D4, D5, D6, D13, D14	OSRAM	LG M67K-H1J2-24-Z	Digi-Key	475-2730-1-ND
CDELA00015_1	1	DIODE,LED RED 0805 SMD	D3	OSRAM	LS M67K-H2L1-1-Z	Digi-Key	475-2510-1-ND
CDEDA00043	1	DIODE, ZENER, 5.1V, 225MW, SOT-23, ROHS	D7	ON SEMICONDUCTOR	PZV84CEV1LT1C	Digi-Key	PZV84CEV1LT1COSCT

CDELA00016_1	0	DIODE,LED GREEN 0805 SMD	D13, D14	OSRAM	LG M67K-H1J2-24-Z	Digi-Key	475-2730-1-ND
CDELA00015_1	1	DIODE,LED RED 0805 SMD	D3	OSRAM	LS M67K-H2L1-1-Z	Digi-Key	475-2510-1-ND
CDEDA00043	1	DIODE, ZENER, 5.1V, 225MW, SOT-23, ROHS	D7	ON SEMICONDUCTOR	BZX84C5V1LT1G	Digi-Key	BZX84C5V1LT1GOSCT
CDEDA00037_1	4	VARISTOR, TVS, 5.5VDC, 1206, 150A, .60J, RoHS	D8, D9, D11, D12	LITTLEFUSE	V5.5MLA1206NH	Digi-Key	F2219TR-ND
CDEDA00020	1	DIODE, 150MA, 100V, SOD123	D10	DIODES INC	1N4148W-7-F	Digi-Key	1N4148W-FDICT-ND
CDEDA00055_1	1	DIODE, ZENER, 18V, 225MW, SOT-23, ROHS	D15	ON SEMICONDUCTOR	BZX84C18LT1G	Digi-Key	BZX84C18LT1GOSCT-1
CDEDA00055_3	2	DIODE, 1A, 100V, SMA, ROHS	D19, D21	FAIRCHILD SEMICONDUCTOR	SRB	Digi-Key	S1BFSCT-ND
CDEDA00055_2	2	DIODE, ZENER, 33V, 225MW, SOT-23, ROHS	D20, D22	ON SEMICONDUCTOR	BZX84C33LT1G	Digi-Key	BZX84C33LT1GOSCT-1
CDEVA00115	5	FERRITE, 1KOHM AT 100MHZ, 220MA, .450DCR	FB1, FB2, FB3, FB4, FB5	MURATA	BLM21AG102SN1D	Digi-Key	490-1041-1-ND
CDTDA00013	1	CONN, HDR, 2X10, 100MIL, TH, ROHS	J1	TYCO ELECTRONICS	5103309-5	Digi-Key	A33166-ND
CDTDA_1	2	CONN, RCPTL MICRO USB TYPE AB, SM RA	J2, J3	TYCO	1981584-1	Digi-Key	A97799CT-ND
CDTDA_2	1	CONN, MICRO SD, SM, ROHS	J4	3M	2908-05WB-MG	Digi-Key	3M5607CT-ND
CDTTB001	1	CONN, HDR, 2PIN, 5MM PHONIX CONTACT, ROHS	J5	PHOENIX CONTACT	1933189	Digi-Key	277-1645-ND
CDEHA00005_1	1	INDUCTOR, 33UH, 10%, SMT, NON-SHIELDED, FERRITE CORE, ROHS	R1	BOURNS	SDR0805-330KL	Digi-Key	SDR0805-330KLCT-ND
CDEHA00005_2	1	INDUCTOR, 100UH, 10%, SMT, NON-SHIELDED, FERRITE CORE, ROHS	R2	BOURNS	SDR0805-101KL	Digi-Key	SDR0805-101KLCT-ND
CDENA00031	5	MOSFET P CHN, VDS=30V, RDSON = .60HM, SOT 23	Q1, Q3, Q10, Q11, Q19	INTERNATIONAL RECTIFIER	IRRLML5103	Digi-Key	IRRLML5103PBFCT-ND
CDENA00031_1	1	MOSFET P CHN, VDS=50V, RDSON = 100HM, SOT 23	Q2	DIODES INC	BSS84-7-F	Digi-Key	P59.0KFCT-ND
CDENA00031_3	3	MOSFET P CHN, VDS=12V, RDSON = .050HM, SOT 23	Q4, Q5, Q14	INTERNATIONAL RECTIFIER	IRRLML6401TRPBF	Digi-Key	IRRLML6401PBFCT-ND
CDENA00030	7	MOSFET N CHN, VDS=60V, 115 mA, SOT 23	Q6, Q7, Q8, Q9, Q15, Q17, Q20	DIODES INC	2N7002-7-F	Digi-Key	2N7002-FDICT-ND
CDENA00031_2	4	MOSFET N CHN, VDS=60V, 115 mA, SOT 23	Q11, Q12, Q13, Q16	INTERNATIONAL RECTIFIER	IRRLML2803TRPBF	Digi-Key	IRRLML2803PBFCT-ND
CDERA00170	17	RESISTOR, CHIP 1206 10K OHM 1% 1/4W THICK FILM ROHS	R1, R2, R3, R4, R5, R6, R24, R25, R26, R27, R29, R30, R35, R40, R45, R59, R65	PANASONIC	ERJ-8GEYJ103V	Digi-Key	P10KECT-ND
CDERA00276_1	7	RESISTOR, CHIP 1206 750 OHM 1% 1/4W THICK FILM ROHS	R7, R8, R9, R10, R11, R62, R63	PANASONIC	ERJ-8ENF7500V	Digi-Key	P750FCT-ND
CDERA00276_5	3	RESISTOR, CHIP 1206 11K OHM 0.1% 1/4W THICK FILM ROHS	R12, R13, R41	SUSUMU	RG3216P-1102-B-T1	Digi-Key	RG32P11.0KBCT-ND
CDERA00275_6	2	RESISTOR, CHIP 1206 357 OHM 1% 1/4W THICK FILM ROHS	R14, R52	PANASONIC	ERJ-8ENF3570V	Digi-Key	P357FCT-ND
CDERA00198	5	RESISTOR, CHIP 1206 100K OHM 1% 1/4W THICK FILM ROHS	R15, R20, R43, R54, R66	PANASONIC	ERJ-8ENF1003V	Digi-Key	P100KFCT-ND
CDERA00179	1	RESISTOR, CHIP 1206 1.5K OHM 1% 1/4W THICK FILM ROHS	R16	PANASONIC	ERJ-8GEYJ152V	Digi-Key	P1.5KECT-ND
CDERA00169	2	RESISTOR, CHIP 1206 4.7K OHM 1% 1/4W THICK FILM ROHS	R17, R67	PANASONIC	ERJ-8GEYJ472V	Digi-Key	P4.7KECT-ND
CDERA00207	2	RESISTOR, CHIP 1206 33 OHM 1% 1/4W THICK FILM ROHS	R18, R19	PANASONIC	ERJ-8ENF33R0V	Digi-Key	P33.0FCT-ND
CDERA00191	2	RESISTOR, CHIP 1206 1MOHM 1% 1/4W THICK FILM ROHS	R21, R22	PANASONIC	ERJ-8GEYJ105V	Digi-Key	P1.0MECT-ND
CDERA00207_2	1	RESISTOR, POT 10K OHM 20% THUMBWHELL, CERM, TH, ROHS	R23	BOURNS	3352T-1-103LF	Digi-Key	3352T-103LF-ND
CDERA00142	1	RESISTOR, CHIP 1206 10 OHM 1% 1/4W THICK FILM ROHS	R28	PANASONIC	ERJ-8ENF10R0V	Digi-Key	P10.0FCT-ND
CDERA00176	1	RESISTOR, CHIP 1206 100 OHM 1% 1/4W THICK FILM ROHS	R31	PANASONIC	ERJ-8GEYJ101V	Digi-Key	P100ECT-ND
CDERA00154	1	RESISTOR, CHIP 1206 330 OHM 1% 1/4W THICK FILM ROHS	R32	PANASONIC	ERJ-8ENF3300V	Digi-Key	P330FTR-ND

CDERA00142	1	RESISTOR, CHIP 1206 10 OHM 1% 1/4W THICK FILM ROHS	R28	PANASONIC	ERJ-8ENF10K0V	Digi-Key	P10.0CF4D
CDERA00176	1	RESISTOR, CHIP 1206 100 OHM 1% 1/4W THICK FILM ROHS	R31	PANASONIC	ERJ-8GEYJ101V	Digi-Key	P100ECT-ND
CDERA00154	1	RESISTOR, CHIP 1206 330 OHM 1% 1/4W THICK FILM ROHS	R32	PANASONIC	ERJ-8ENF3300V	Digi-Key	P330FTR-ND
CDERA00275_8	6	RESISTOR, CHIP 1206 300K OHM 1% 1/4W THICK FILM ROHS	R33, R34, R36, R44, R56, R61	PANASONIC	ERJ-8ENF3003V	Digi-Key	P300KFCT-ND
CDERA00276_9	1	RESISTOR, CHIP 1206 150K OHM 0.1% 1/4W THIN FILM ROHS	R37	VISHAY	TNPW1206150KBEEA	Digi-Key	TNP150KACCT-ND
CDERA00273_2	1	RESISTOR, CHIP 1206 220 OHM 1% 1/4W THICK FILM ROHS	R38	PANASONIC	ERJ-8ENF2200V	Digi-Key	P220FCT-ND
CDERA00198_1	1	RESISTOR, CHIP 1206 100K OHM 0.1% 1/4W THIN FILM ROHS	R39	BOURNS	CRT1206-BY-1003ELF	Digi-Key	CRT1206-BY-1003ELF ND
CDERA00276_6	1	RESISTOR, CHIP 1206 59K OHM 0.1% 1/4W THICK FILM ROHS	R42	SUSUMU	RG3216P-5902-B-T1	Digi-Key	RG32P59.0KBCT-ND
CDERA00276_3	1	RESISTOR, CHIP 1206 3.01K OHM 1% 1/4W THICK FILM ROHS	R46	PANASONIC	ERJ-8ENF3011V	Digi-Key	P3.01KFCT-ND
CDERA00276_4	1	RESISTOR, CHIP 1206 30K OHM 0.1% 1/4W THIN FILM ROHS	R47	SUSUMU	RG3216P-3002-B-T1	Digi-Key	RG32P30.0KBCT-ND
CDERA00276_7	1	RESISTOR, CHIP 1206 12K OHM 0.1% 1/4W THICK FILM ROHS	R48	VISHAY	TNPW120612K0BEEA	Digi-Key	TNP12.0KACCT-ND
CDERA00276_8	1	RESISTOR, CHIP 1206 7.5K OHM 0.1% 1/4W THICK FILM ROHS	R49	VISHAY	TNPW12067K50BEEA	Digi-Key	TNP7.50KACCT-ND
CDERA00181	5	RESISTOR, CHIP 1206 0.0 OHM 1% 1/4W THICK FILM ROHS	R50, R51, R58, R64, R68	PANASONIC	ERJ-8GEYJ122V	Digi-Key	P0.0ECT-ND
CDERA00209	1	RESISTOR, CHIP 1206 270 OHM 1% 1/4W THICK FILM ROHS	R53	PANASONIC	ERJ-8ENF2700V	Digi-Key	P270FCT-ND
CDERA00195	2	RESISTOR, CHIP 1206 1K OHM 1% 1/4W THICK FILM ROHS	R55, R60	PANASONIC	ERJ-8ENF1001V	Digi-Key	P1.00KFCT-ND
CDERA00153	1	RESISTOR, CHIP 1206 470 OHM 1% 1/4W THICK FILM ROHS	R57	PANASONIC	ERJ-8ENF4700V	Digi-Key	P470FTR-ND
CDEVA_2	1	SPEAKER 8OHM .7W 88DB 13MM SMD	SPK1	PUI AUDIO	SMS-1308MS-R	Digi-Key	668-1206-1-ND
CDESA00095	2	SWITCH, MOM, NO, SM	SW1, SW2	PANASONIC	EVQ-QXS02W	Digi-Key	P13612SCT-ND
CDESA00095_1	1	SWITCH, SPST, SLIDE, TH	SW3	COPAL ELECTRONICS	CSS-1210MC	Digi-Key	563-1090-ND
CDELA00023_1	1	LCD, 4X20 WITH ICONS, SERIAL INTERFACE, 5X8DOT, WHITE BACKLIGHT		ELECTRONIC ASSEMBLY	EA DIP204J-6NLW		
CDEUA00070_1	1	IC, TXRX USB TO UART BRIDGE, ROHS, 28QFN	U2	SILICON LABS	CP2101-GM	Digi-Key	336-1162-ND
CDEUA00049	1	IC, SHUNT VOLTAGE REFERENCE	U3	TEXAS INSTRUMENTS	LM4040C30IDBZR	Digi-Key	296-20887-1-ND
CDEUA00069_2	1	IC, MICRO CONTROLLER, 512KB FLASH, 64K, ARM CORTEX M3, 100LQFP	NXP		LPC1769FBD100	Digi-Key	568-4966-ND
CDEUA00071_1	1	IC AUDIO AMP, CLASS AB, 325mW, 8SOIC, ROHS	U5	NATIONAL SEMICONDUCTOR	LM386M-1/ NOPB	Digi-Key	LM386M-1-ND
CDEUA00020	1	IC, EEPROM, I2C, 256x8, 8PIN SO8, ROHOS	U6	ATMEL	AT24C02N-10SU-2.7	Digi-Key	AT24C02N-10SU-2.7-ND
CDEUA00052_1	2	IC, TOUCHKEY CONTROLLER, 24CH, I2C, 40QFN	U7, U8	ST	STMPE24M31	Digi-Key	497-10380-1-ND
CDEUA00014_1	1	IC, BUCK REGULATOR, 0.6A, TSOT23-6	U9	NATIONAL SEMICONDUCTOR	LM2842XMK-ADJL/NOPB	Digi-Key	LM2842XMK-ADJLCT-ND
CDEUA00071_2	1	IC 3.0V LDO REGULATOR SOT-23-5, ROHS	U10	MICROCHIP	MCP1801T-3002I/OT	Digi-Key	MCP1801T-3002I/OTC ND
CDEKA00015_1	1	CRYSTAL, 32.768KHZ, 12.5PF, SMT SM	X1	ABRACON CORP	ABS10-32.768KHZ-T	Digi-Key	535-9536-1-ND
CDEKA00019_1	1	CRYSTAL, 12.000MHZ, 18PF, SMT	X2	TCX CORP	7B-12.000MAAJ-T	Digi-Key	887-1099-1-ND