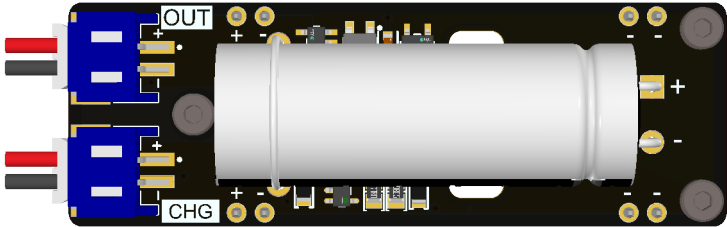
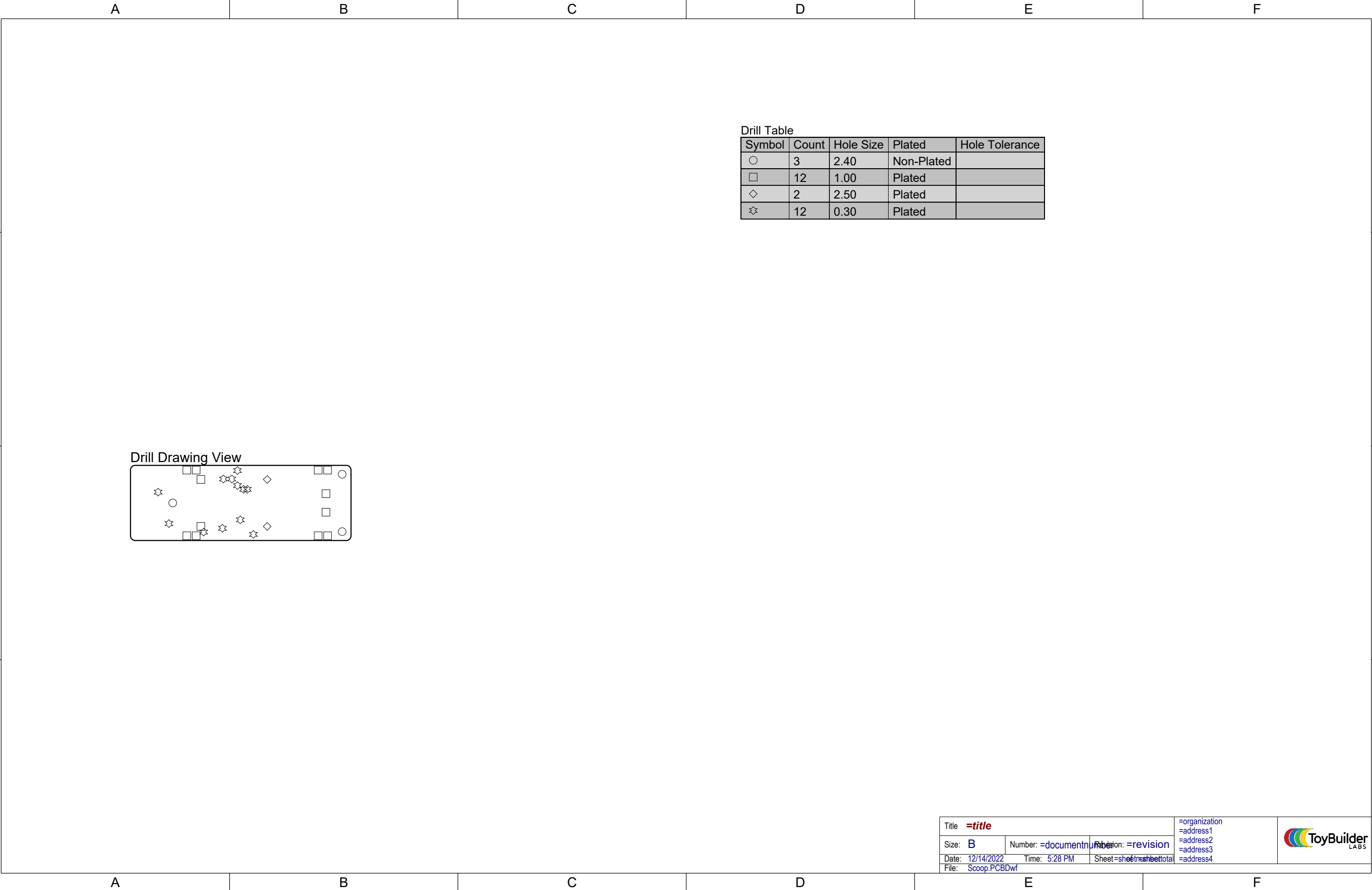


Realistic View (Top)



Realistic View (Bottom)





Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
	Surface Material	0.03mm	SM-001	Solder Mask	GTS
PbSn	Top Surface Finish	0.02mm		Surface Finish	
CF-004	Top Layer	0.04mm		Signal	GTL
	Core	1.50mm	Core-043	Dielectric	
CF-004	Bottom Layer	0.04mm		Signal	GBL
PbSn	Bottom Surface Finish	0.02mm		Surface Finish	
Surface Material	Bottom Solder	0.03mm	SM-001	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 1.66mm					

A

B

C

D

E

F

1

1

2

2

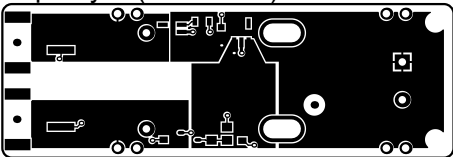
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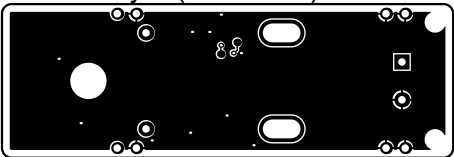
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Top Layer (Scale: 1:1)



Bottom Layer (Scale: 1:1)



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A

B

C

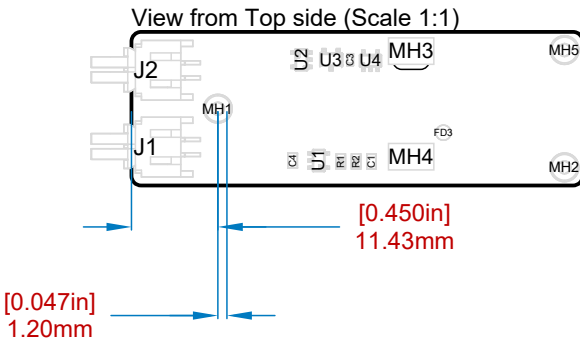
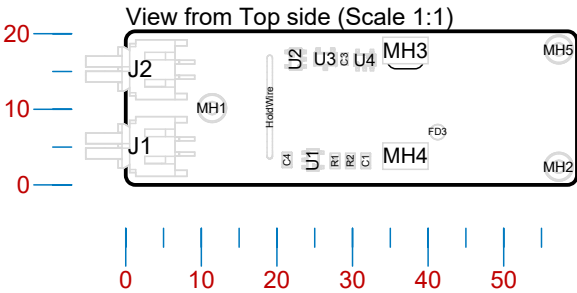
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E

F

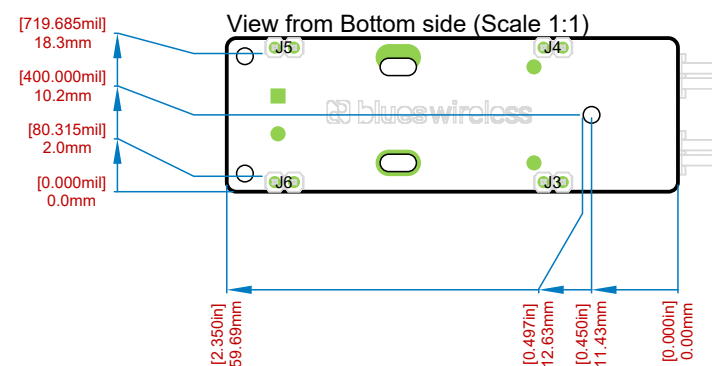
Bill Of Materials


Line #	Design Item Id	Designator	Name	Quantity	Supplier 1	Supplier Part Number 1	Layer	Center-X(mm)	Center-Y(mm)	Manufacturer Part Number 1
	BAT-PH-ADAFRUIT-SMT-RA	J1, J2	S2B-PH-SM4-TB(LF)(SN)	2			Top	4.893	5.08, 15.24	20404
	CL21B105KBFNNNG	C1, C4	CL21B105KBFNNNG	2	Avnet	CL21B105KBFNNNG	Top	31.75, 21.336	3.175, 3.302	CL21B105KBFNNNG
	CMP-05714-000007-1	U2, U4	MAX40203AUK+T	2			Top	22.479, 31.623	16.637, 16.51	MAX40203AUK+T
	CMP-07128-000004-1	U1	NCP718BSNADJT1G	1			Top	24.765	3.302	NCP718BSNADJT1G
	CMP-2006-04499-2	C3	0603YC105KAT2A	1			Top	28.956	16.637	0603YC105KAT2A
	RC0805FR-07178KL	R1	178k	1	DigiKey	311-178KCRCT-ND	Top	27.686	3.175	RC0805FR-07178KL
	RC0805FR-0782KL	R2	82k	1	DigiKey	311-82.0KCRCT-ND	Top	29.718	3.175	RC0805FR-0782KL
	ROHM_BD49K25G-TL	U3	BD49K25G-TL	1	Digi-Key	BD49K25G-TLCT-ND	Top	26.416	16.637	BD49K25G-TL
	VINA_VEL13353R8257G	C2	VEL13353R8257G	1			Top	52.909	10.16	VEL13353R8257G

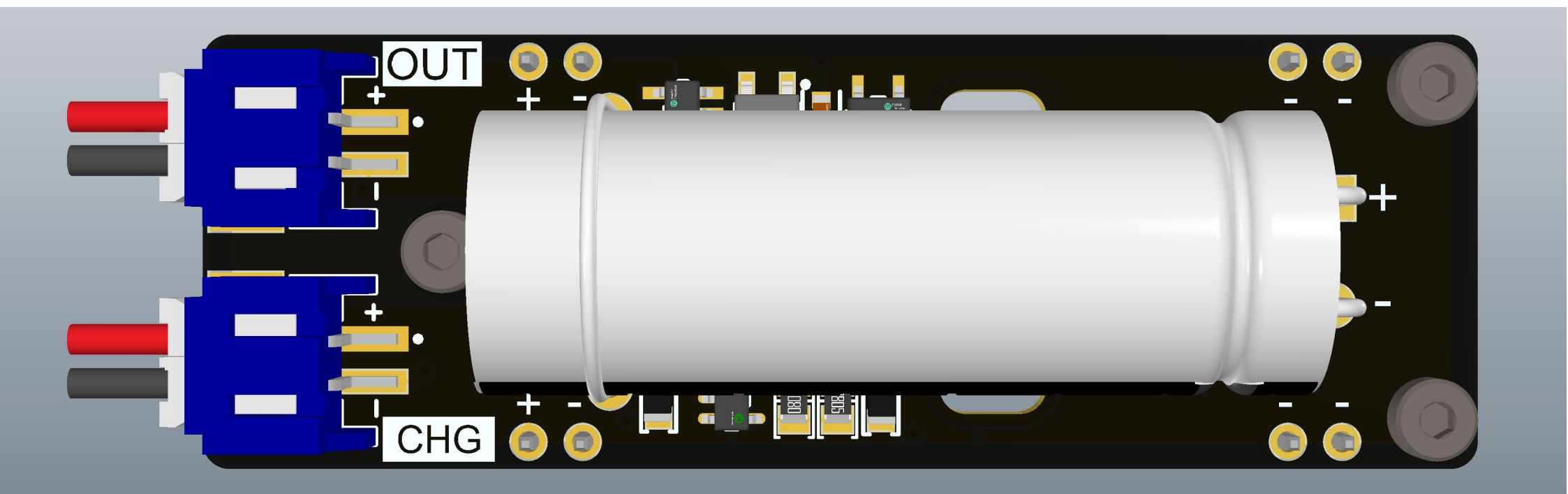


Bill Of Materials

Line #	Designator	Name	Ref-X(mm)	Ref-Y(mm)	Design Item Id	Supplier Part Number 1	Description	Manufacturer Part Number 1
	J1, J2	S2B-PH-SM4-TB(LF)(SN)	4.318	5.08, 15.24	BAT-PH-ADAFRUIT-SMT-RA		Battery Connector PH-2POS wired for Adafruit style packs. SMD RA JST S2B-PH-SM4-TB(LF)(SN)	20404
	C1, C4	CL21B105KBFNNNG	31.75, 21.336	3.175, 3.302	CL21B105KBFNNNG	CL21B105KBFNNNG	Cap Ceramic 1uF 50V X7R 10% SMD 0805 125°C Embossed Plastic T/R	CL21B105KBFNNNG
	U2, U4	MAX40203AUK+T	22.479, 31.623	16.637, 16.51	CMP-05714-000007-1		IC IDEAL DIODE	MAX40203AUK+T
	U1	NCP718BSNADJT1G	24.765	3.302	CMP-07128-000004-1		300 MA LOW IQ WIDE INPUT	NCP718BSNADJT1G
	C3	0603YC105KAT2A	28.956	16.637	CMP-2006-04499-2		General Purpose Ceramic Capacitor, 0603, 1uF, 10%, X7R, 16V	0603YC105KAT2A
	R1	178k	27.686	3.175	RC0805FR-07178KL	311-178KCRCT-ND	RES 178K OHM 1% 1/8W 0805	RC0805FR-07178KL
	R2	82k	29.718	3.175	RC0805FR-0782KL	311-82.0KCRCT-ND	RES 82K OHM 1% 1/8W 0805	RC0805FR-0782KL
	U3	BD49K25G-TL	26.416	16.637	ROHM_BD49K25G-TL	BD49K25G-TLCT-ND	Voltage Supervisor, 2.50V (Pin 1 GND) Push-Pull SSOP3 (SOT-23)	BD49K25G-TL
	C2	VEL13353R8257G	52.909	10.16	VINA_VEL13353R8257G		Hybrid Polarized Capacitor/Battery (Radial) VEL13353R8257G	VEL13353R8257G



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Blues Wireless Scoop 1.0 v4

Version (Release Date) Comment


v1 (2022-08-22) Initial Version
v2 (2022-08-23) Serigraphy changes to add negative stripe mark.

Variant Name	Description
Normal	Normal product configuration

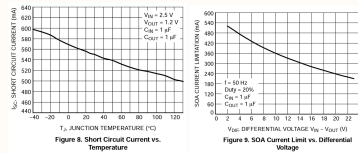
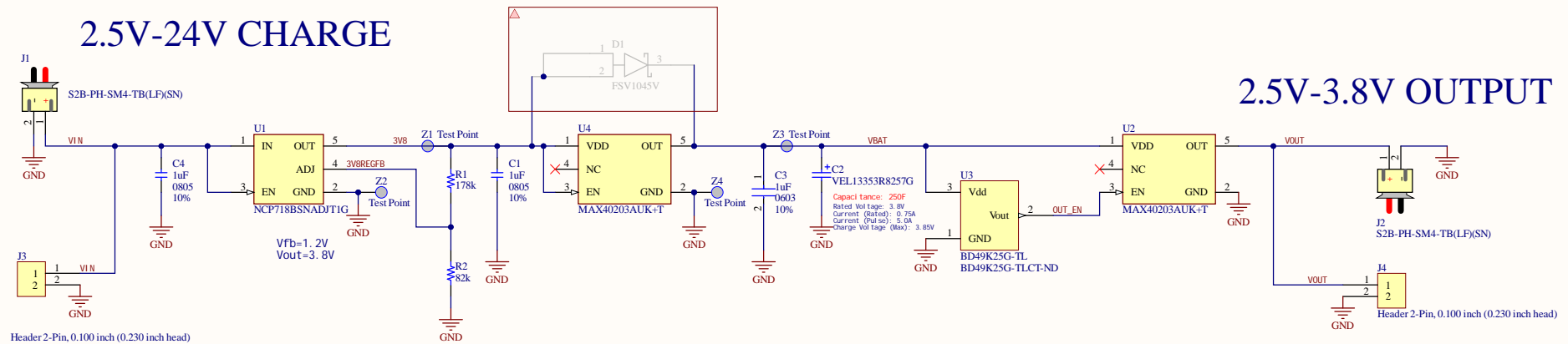
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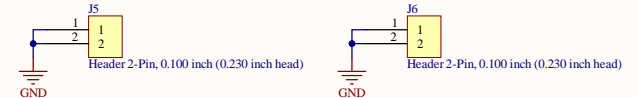
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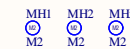
2.5V-24V CHARGE



Mounting Headers




Mounting Screws



Mounting Slots



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