

EPROM Socket U5 Socket U6 W2 W3

2716	6116	blank	closed	A,D
2732	6116	6116	closed	A,C
2764	6264	blank	open	B,D
27128	6264	6264	open	B,D

W1 VCC = development system (W7 = open)
W7 VCC = VUSB (W1 = open)
W5 W4 B - default
W6 C.A - default
W6 2764 C-close, A=open

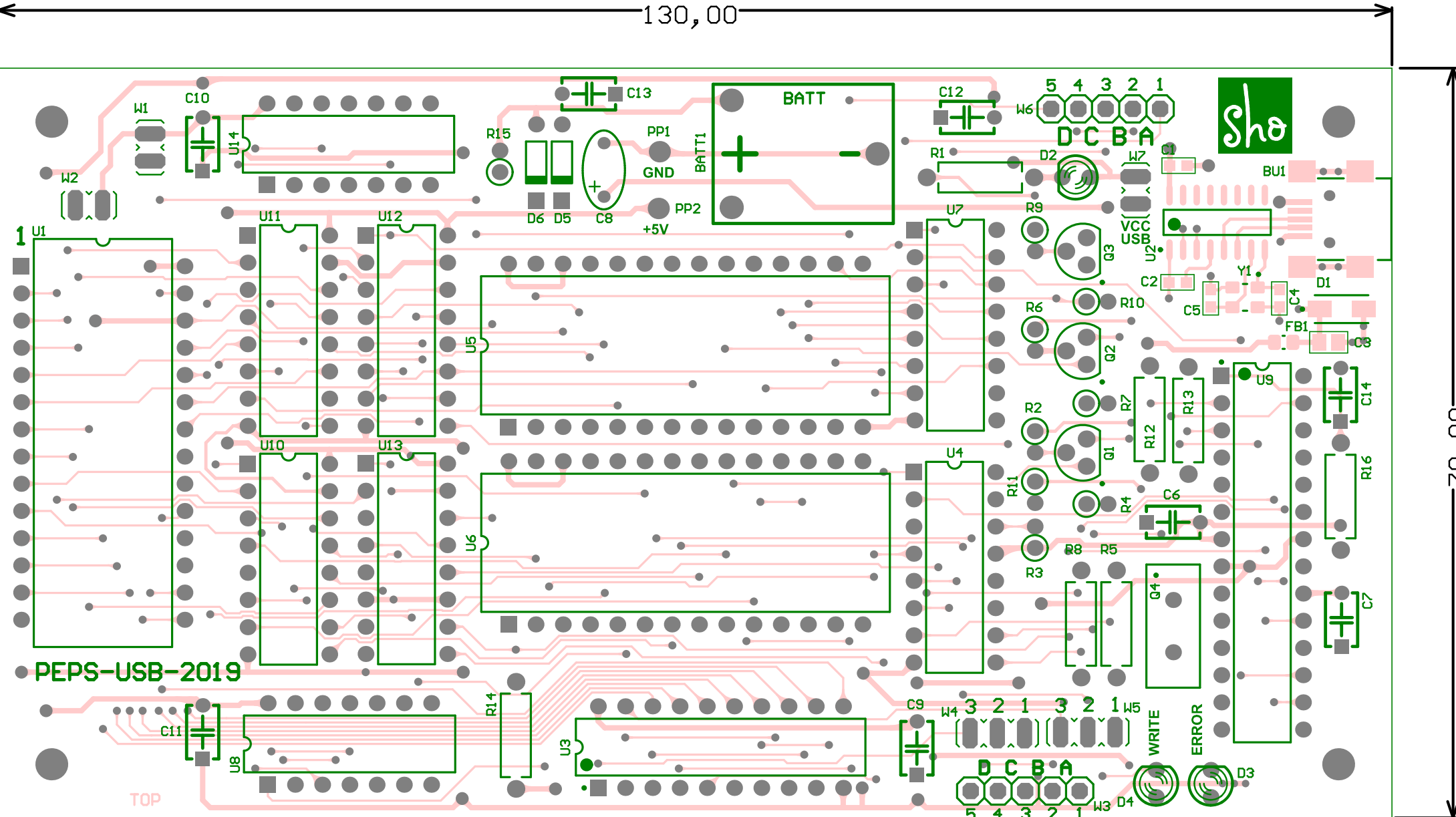
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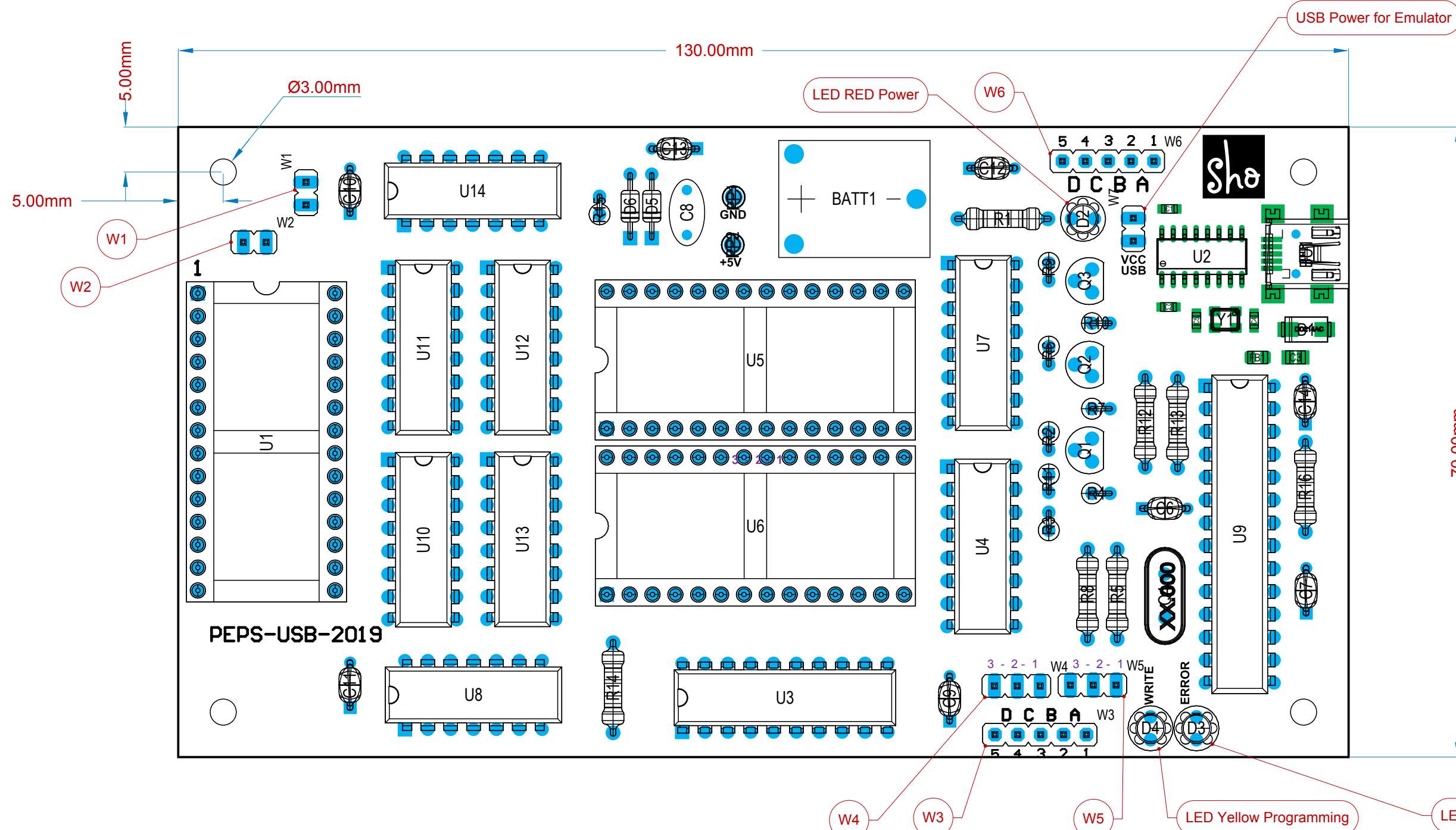
70,00

Sho

PEPS-USB-2019

TOP



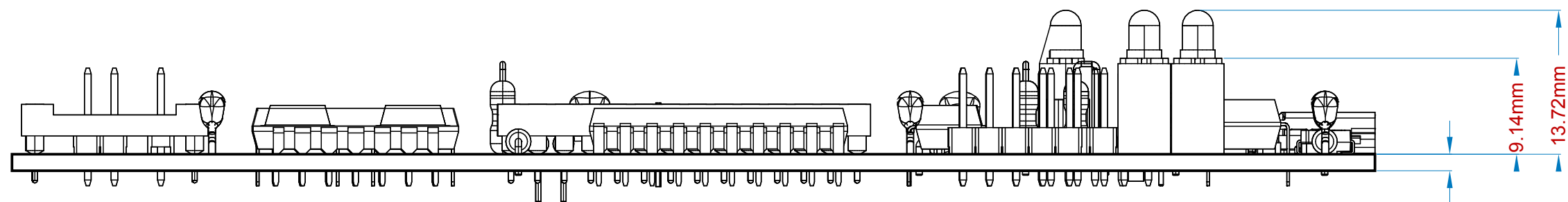


EPROM Simulator Table

EPROM	Socket U5	Socket U6	W2	W3	W3 - PIN
2716	6116	blank	closed	A / D	1-2 / 4-5
2732	6116	6116	closed	A / C	1-2 / 3-4
2764	6264	blank	open	B / D	2-3 / 4-5
27128	6264	6264	open	B / D	2-3 / 4-5

Table Jumper universally

W1	Power Development System (W7 open)
W4	B (1-2) default, for later development
W5	B (1-2) default, for later development
W6	C (3-4) and A (1-2) default
W6	2764 C=close and A=open

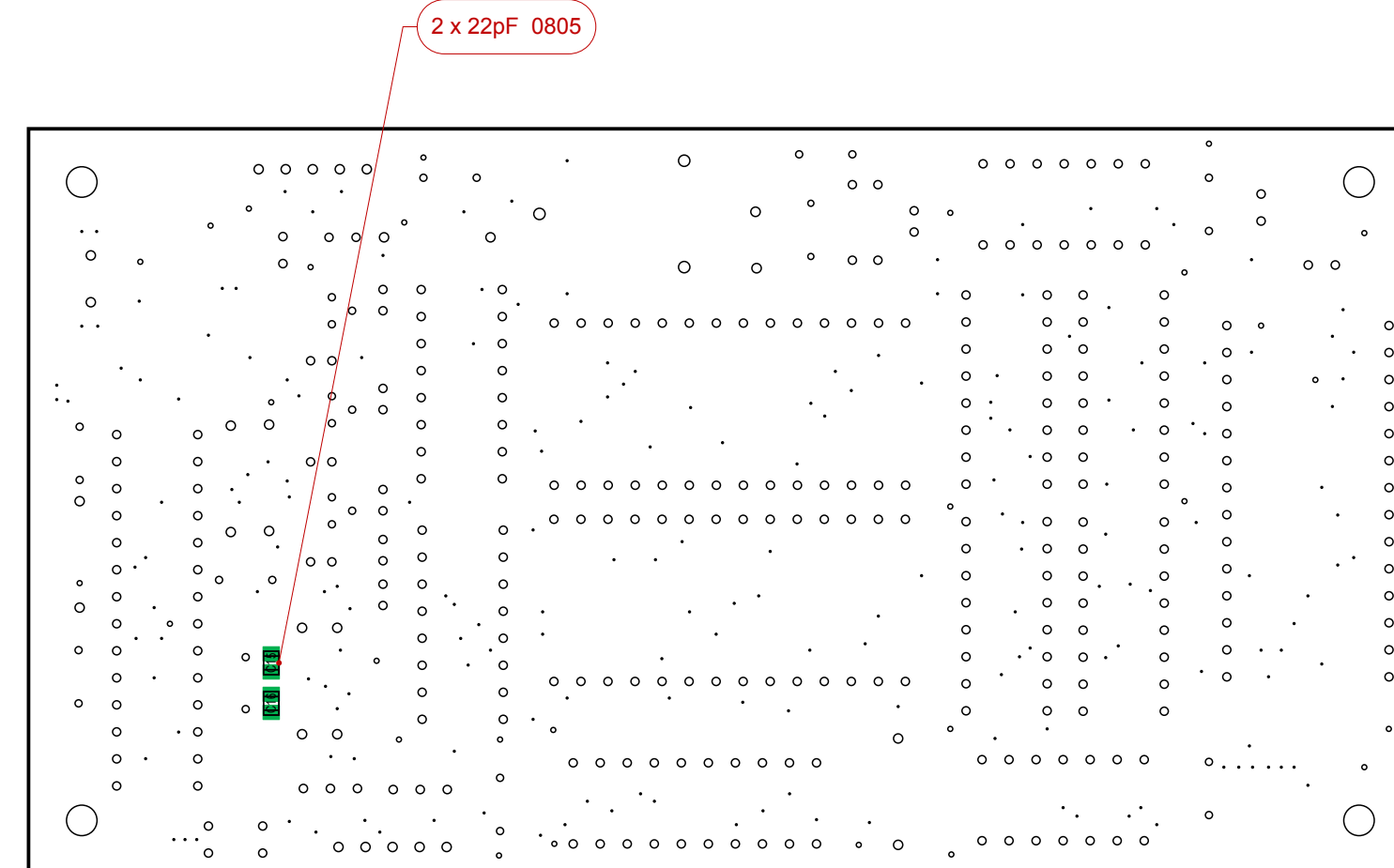


Bill of Materials

Item	Designator	Comment	Quantity
1	BATT1	3/V80H-243	1
2	BU1	10033526_N3212LF	1
3	C1	100nF	1
4	C6, C7, C9-C13	100nF/50V	7
5	C14	47nF	1
6	C4, C5, C15, C16	22pF	4
7	C2	10nF	1
8	C3	4.7µF/16V	1
9	C8	10µF/16V	1
10	D1	SMAJ5.0A	1
11	D2, D3	LED_3mm ROT	2
12	D4	LED_3mm Gelb	1
13	D5, D6	BAT46	2
14	FB1	BLM21PG221SN1D	1
15	PP1, PP2	Prüfpunkt	2
16	Q1-Q3	BC237B	3
17	Q4	11,059200MHz	1
18	R1	220R	1
19	R4, R7, R10	47k	3
20	R11	68R	1
21	R5, R8, R12, R13	1k	4
22	R2, R3, R6, R9, R14, R15	2k2	6
23	R16	10k	1
24	U10-U13	SN74LS158N	4
25	U8, U14	CD74HCT4024E	2
26	U2	CH340G	1
27	U3	SN74LS540N	1
28	U4	SN74LS139AN	1
29	U1, U5, U6	RAM-Fassung	3
30	U7	CD74HCT4094E	1
31	U9	ATmega328P	1
32	W4, W5	Jumper	2
33	W3, W6	Jumper 5pin	2
34	W1, W2, W7	Jumper 2pol	3
35	Y1	XTAL	1

Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Paste			Paste Mask	GTP
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0.04mm		Signal	GTL
		1.50mm	FR-4	Dielectric	
Copper	Bottom Layer	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
	Bottom Paste			Paste Mask	GBP
Total thickness: 1.59mm					



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UNLESS OTHERWISE SPECIFIED:		NAME	DATE	shotech Steffen Hofmann	
DIMENSIONS ARE IN INCHES		DRAWN	19.11.2019	TITLE	
TOLERANCES:		CHECKED		Eprom Emulator - 2716 - 27128	
FRACTIONAL ±		ENG APPR.		SIZE DWG. NO.	
ANGULAR: MACH ± BEND ±		MFG APPR.		00222019	
TWO PLACE DECIMAL ±		Q.A.		SCALE: 1:1 WEIGHT: SHEET 1 OF 1	
THREE PLACE DECIMAL ±		COMMENTS:			
INTERPRET GEOMETRIC TOLERANCING PER:					
MATERIAL					
FINISH					
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			



Bearbeiter: S. Hofmann
Tel: 040 /
Fax: 040 / 76906856
Email: shop@shotech.de

Bill of Materials

Datum:	19. November 2019
Zeit:	22:50:56
Variante:	None
Bezeichnung:	EPROM Emulator USB
Revision:	0.6

Quantity	Designator	Footprint	Bemerkung	Value	MFT	Order-Code	shotech
1	BU1	USB_10033526_N3212LF	05P MINI USB B RECPTACLE	10033526-N3212LF	FCI	10033526-N3212LF	000354
1	C1	C0603_N	SMD-Vs-Kond 100nF 16V 10% X7R 0603	100nF	DARFON	CVNF100K0603	
1	C2	C0603_N	SMD-Vs-Kond 10nF 16V 10% X7R 0603	10nF	YAGEO (PHYCOMP)	CC0603KRX7R8BB103	
1	C3	C0805_N	KONDENSATOR,0805,X7R,16V,4.7UF	4,7µF/16V	Murata	GRM21BR71C475KA73L	
2	C4, C5	C0603_N	KONDENSATOR, 0603, NP0, 50V, 22PF, 5%	22pF	TDK Corporation	C1608C0G1H220J080AA	
2	C15, C16	C0805_N	CAPACITOR, 0805, NPO, 22pF, 100V	22pF	AVX	08051A220JAT2A	
1	D1	DIOM5126X223N	SMD-TVS-Diode bip 400W 5V SMA	SMAJ5.0A	TAIWAN SEMICONDUCTOR (TSC)	SMAJ5.0A	000372
1	FB1	I0805_NC		BLM21PG221SN1D	Murata	BLM21PG221SN1D	
1	U2	SOP127P600X175-16N	USB-RS232-Bridge TTL , SO16	CH340G	WCH	CH340G	000849
1	Y1	OSCC320X250X70N	Quarz -SMD 12.000MHz 3.2x2.5mm, 20pF, 30R, 10ppm	12,0000MHz	China	627870671 - X32FG20QSA12000	000850
12							



Bearbeiter: S. Hofmann
 Tel: 040 /
 Fax: 040 / 76906856
 Email: shop@shotech.de

Bill of Materials

Datum:	19. November 2019
Zeit:	22:51:12
Variante:	None
Bezeichnung:	EPROM Emulator USB
Revision:	0.6

Quantity	Designator	Footprint	Bemerkung	Value	MFT	Order-Code	shotech
1	BATT1	3-V80H	NiMH-Akku 2,4V 80mAh 3 Lötflächen	3/V80H-243	Varta	3/V80H-243	
7	C6, C7, C9, C10, C11, C12, C13	CAP_Radial_5MM	Keramik-Vielschichtkondensator MLCC – bedrahtet 0.1uF 50volts 10% X7R 5mm LS	100nF/50V	Vishay / BC Components	K104K15X7RF53H5	001347
1	C8	CAPNTO5.08-7.37x3.94	Tantal-kondensator 10 µF, 16 V, Baureihe 489D, ± 20%, Radial bedrahtet	10µF/16V	VISHAY	489D106X0016C6VE3	
1	C14	CAP_Radial_5MM	Keramik-Vielschichtkondensator MLCC – 100volts 0.047uF 10% X7R Radial	47nF	TDK	FA24X7R2A473KNU00	001348
2	D2, D3	LED3MM - spacer - red		ROT	frei		001321
1	D4	LED3MM - spacer - yellow		GELB	frei		001322
2	D5, D6	DO-35	Schottky 100V 0,15A DO35	BAT46	ST-Microelectronic	BAT46	001240
1	LP1			LP-EPROM-EMU	shotech	EPROM-Emulator-USB-SMD	001056
2	PP1, PP2	VERO_Testpoint_Blue	Prüfpunkt				
3	Q1, Q2, Q3	SC_TO-92	NPN 45V 0,1A 0,5W B:200-450 TO92	BC237B	frei	BC237B	001069
1	Q4	HC49/4H_SMX	Quarze +/-30ppm, 20pF, 40Ohm, 11,059200MHZ FUNDAMENTAL	11,059200MHz	HKC Europe	9SM1105920E20F3FZ000	001320
1	R1	RES10-7.8x2.8 - 220R	WIDERSTAND, 207, axial, 1%	220R	frei	RMGE220	001239
5	R2, R3, R6, R9, R15	RESADV200W55L630D240P	WIDERSTAND, 207, axial, 1%	2k2	frei	RMGK002.2	001238
3	R4, R7, R10	RESADV200W55L630D240P	WIDERSTAND, 207, axial, 1%	47k	frei	RMGK047	001237
4	R5, R8, R12, R13	RES10-7.8x2.8 - 1k	Metallsch. 0207 1/4W 1%	1k	frei	RMGK001	001235
1	R11	RESADV200W55L630D240P	WIDERSTAND, 207, axial, 1%	68R	frei	RMGE068	001234
1	R14	RES10-7.8x2.8 - 2k2	WIDERSTAND, 207, axial, 1%	2k2	frei	RMGK002.2	001238
1	R16	RES10-7.8x2.8 - 10k	WIDERSTAND, 207, axial, 1%	10k	frei	RMGK010	001233
3	U1, U5, U6	PDIP28	RAM Fassung				001328
1	U3	N0020A	Tri-St. Inv Oct Buff DIP20	SN74LS540N	Texas Instruments	SN74HCT540N	001232
1	U4	N016	2x 2 to 4 Decoder/Demux DIP16	SN74LS139AN	Texas Instruments	LS139N	001231
1	U7	N016		CD74HCT4094E	Texas Instruments	CD4094BE	001058
2	U8, U14	N014		CD74HCT4024E	Texas Instruments	CD4024BE	001230
1	U9	28P3		ATmega328P	Atmel		001319
4	U10, U11, U12, U13	N016	Quadruple 2-Line To 1-Line Data Selectors/Multiplexers	SN74LS158N	frei	SN74LS158N	001317
3	W1, W2, W7	JP1	Jumper RM2,54, rot	JUMP-RT		JUMP-RT	
2	W3, W6	1X5	Jumper 3pin	Jumper 5pin	frei	frei	
2	W4, W5	JP2					