

# SHIELD NCS318-4 V1.3 B2

N	Designator	Qty	Value	Package	Comment
1	U1, U2	2	HV5122PJ-G	PLCC-44	HV Driver
2	U3	1	CD4504BM	SOIC-16	CD4504BM
3	U4	1	L78M05	DPAK	L78M05
4	U5	1	DS3231SN/DS3231MZ	SOIC-16W/SOIC-8	DS3231SN_DS3231MZ
5	U6	1	LM3478MAX/LM3478MA/ LM3478MM/LM3488MM	SOIC-8/VSSOP-8	Step-Up convertr
6	T2	1	BC817	SOT-23	N-ch Transistor 300V
7	T1	1	FDD6N25	DPAK	N-ch MOSFET Transistor
8	IR1	1	TSOP4836	DIP-3	IR_Receiver_TSOP48
9	R61	1	0.1 Ohm	2512	Resistor Shunt
10	R65	1	150 Ohm	0805	Resistor
11	R11, R12, R37, R38, R48, R54	6	1k	0805	Resistor
12	R1, R2, R3, R4	4	1k	1206	Resistor
13	R56	1	10k	0805	Resistor
14	R41, R42, R67	3	4.7k	0805	Resistor
15	R7, R8, R36	3	150k	0805	Resistor
16	R50	1	1.5 MOhm	0805	Resistor
17	D12	1	LED RED	1206	Power LED
18	D9	1	ES1J/ES1F/ES2J/ES2F	SMB	Fast diode
19	D1, D2, D3, D4, D5	5	SK6812-Mini	3535	Addressasable RGB LED
20	C18	1	100nF 250V	1206	Ceramic Capacitor
21	C15	1	10uF 250V Low ESR	TH & SMD D10mm	Alum Capacitor
22	C11, C16	2	220uF 16V	SMD 6.3x7.7mm	Alum Capacitor
23	C7	1	10uF 10V Size-A/B	Size-A/B (SMD3216/3528)	Tantalium Capacitor
24	C6, C13, C19	3	10uF 16V	0805	Ceramic Capacitor
25	C1, C2, C3, C4, C5, C8, C9, C10, C17, C21, C22, C23, C24, C25, C26	15	100nF 50V	0805	100nF 50V 0805
26	L1	1	220uH 1.2A/100uH 2.7A	SMD 12x7mm or TH 16x16mm	Inductor
27	B1	1	HCS0903G	SMD 8.5x8.5mm	Buzzer
28	BT1	1	CR1220 (KEYS1056)	SMD	Bat Holder CR1220
29	not marked on PCB	1	Li-ion Battery CR1220	CR1220	Install to BT1
30	DG3	1	PLS-4	PLS-4	PLS-4
31	AN1, PWR1	2	PLS-6	PLS-6	PLS-6
32	DG2	1	PLS-8	PLS-8	PLS-8
33	DG1	1	PLS-10	PLS-10	PLS-10
34	SPI1	1	PLD-4	PLD-4	PLD-4
35	GPS1-1, TEM1	2	Jack 3.5mm	ST-11M-030-00-0	Jack_3m5
36	GPS1	1	PH2.0-4p	Pich 2.0mm	PH2.0-4p_GPS
37	ExDOWN, ExMODE, ExUP	3	PH2.0-2p	Pich 2.0mm	PH2.0-2p
38	TEM1-1	1	PH2.0-3p Right	Pich 2.0mm	Connector for external DS18B20
39	DOWN, MODE, UP	3	SWT-3/13	SWT-3/13, h=13, L=9	Button Controls
40	DS1, DS2	2	NE-2H	PIN2	Lamp_Nixie
41	NX1, NX2, NX3, NX4	56	Socket pin	Socket pin	
42	not marked on PCB	4	IN-18	Nixie Tube 30mm	Options