

Bill of Materials PCB Tubes Board NCT318 v1.1 Rev. 1K

#	Designator	Quantity	Comment	Footprint	Comment
1	NX1, NX2, NX3, NX4, NX5, NX6	6	IN-18	NIXIE Tubes	NOT Include
2	not marked on PCB	84	Socket pin	Install to NX1-NX6	Socket for IN-18
3.0	DS2, DS3	2	IN-3	Options 1 -Without Column	Default Options
3.1	DS1, DS2, DS3, DS4	4	NE-2H/C2A	Options2 - With Column	Options
		2	Column 10x65mm	- DS2, DS4 solder legs at full length	Options
		2	Column Holder NCH1	- DS1, DS3 solder below DS2, DS4	Options
		8	Screw		Options
		8	Nut M2,5		Options
4	MAIN1	1	PLD-18	PLD-18, pitch 2.54mm	Connector
5	EDIT1	1	PBD-12R	PBD-12R. Socket Rotated by 90 deg, pitch 2.54mm	Options (Need for NCT818).
6	D1, D2, D3, D4, D5, D6, D7, D8	8	LED RGB 3528	3528 = 3.5x2.8mm	LED RGB
7	U2, U3	2	HV5122JP	PLCC-44	IC HV Driver
8	not marked on PCB	2	PLCC-44 DIP	Install to U2, U3	Socket for HV5122PJ
9	U1	1	CD4504BM	SOIC-16	IC Level Translator
10	C1, C2, C3, C4	4	100nF 50V	0805	Ceramic Capacitor
11	R11-R18, R27-34, R19-R26	24	150 Ohm	0805	Resistor
12	R5-R10	6	1k	1210/1206	Resistor
13	R1-R4	4	150k	0805	Resistor
14	not marked on PCB	4	Hex pillar M3x8mm	IN-OUT	Mechanical connection
15	not marked on PCB	4	Hex pillar M3x20mm	IN-IN	Mechanical connection
16	not marked on PCB	4	Hex pillar M3x30mm	IN-IN	Mechanical connection
17	not marked on PCB	8	Screw M3x6mm	L=6mm	Mechanical connection
18	PCB TUBES NCT318 v1.1	1			264x50x1.6mm

Bill of Materials PCB Tubes Board NCT818 v1.0 Rev. 1K

#	Designator	Quantity	Comment	Footprint	Comment
1	NX7, NX8	2	IN-18	NIXIE Tubes	NOT Include
2	not marked on PCB	28	Socket pin	Install to NX7, NX8	Socket for IN-18
3.0	DS2, DS3	1	IN-3	Options 1 -Without Column	Default Options
3.1	DS1, DS2, DS3, DS4	2	NE-2H/C2A	Options2 - With Column	Options
		1	Column 10x65mm	- DS2, DS4 solder legs at full length	Options
		1	Column Holder NCH8	DS1, DS3 solder below DS2, DS4	Options
		2	Screw		Options
		2	Nut M2,5		Options
4	U4	1	HV5122PJ-G	PLCC-44	IC HV Driver
5	not marked on PCB	1	PLCC-44 DIP	Install to U4	Socket for HV5122PJ
6	R811, R812, R813, R827, R828, R829, R819, R820, R821	9	150 Ohm	0805	Resistor
7	R85, R86	2	1k	1210 / 1206	Resistor
8	R81, R82	2	51k	0805	Resistor
9	EDIT1-1	1	PLD-12R	PLD-12R. Rotated by 90 deg. Pitch 2.54mm	Connector
10	D9, D10, D11	3	LED RGB 3528	3528 = 3.5x2.8mm	LED RGB
11	C83	1	100nF 50V	0805	Ceramic Capacitor
12	+12V, DATA_OUT2, DOUT3, GND, HV, LEO, SCKO	7	Test Point	Test Point	Measuring and testing, if necessary.
13	not marked on PCB	4	Hex pillar M3x30mm	IN-IN	Mechanical connection
14	not marked on PCB	4	Screw M3x6mm	L=6mm	Mechanical connection
15	PCB TUBES NCT818 v1.0	1			94x50x1.6mm