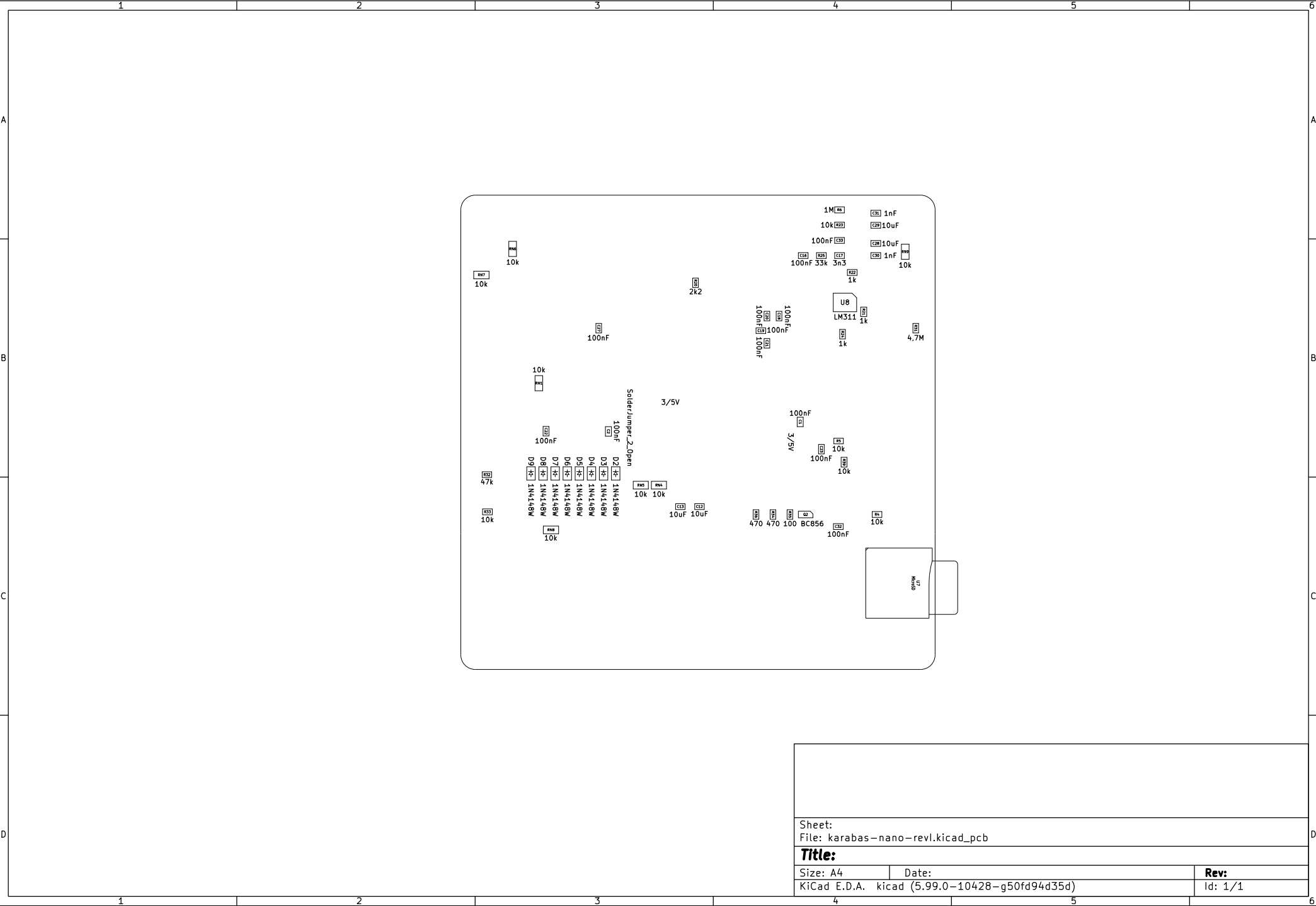


Sheet:
File: karabas-nano-rev1.kicad_pcb

Title:

Size: A4 Date:
KiCad E.D.A. kicad (5.99.0-10428-g50fd94d35d)

Rev:
Id: 1/1



Designator	Quantity	Designation	Package
C10,C11,C25,C12,C13,C28,C29	7	10uF	C_0805_2012Metric
C14	1	10uF	CP_EIA-3528-21_Kemet-B_Pad1.50x2.35mm_HandSolder
C17	1	3n3	C_0805_2012Metric
C30,C31	2	1nF	C_0805_2012Metric
C5,C6,C7,C24,C26,C16,C32,C18,C20,C21,C22,C23,C27,C19,C33,C1,C2	17	100nF	C_0805_2012Metric
C8	1	10p	C_0805_2012Metric
C9	1	220uF	CP_EIA-7343-31_Kemet-D_Pad2.25x2.55mm_HandSolder
D10	1	PWR	LED_0805_2012Metric_Pad1.15x1.40mm_HandSolder
D11	1	SD	LED_0805_2012Metric_Pad1.15x1.40mm_HandSolder
D12	1	MMC	LED_0805_2012Metric_Pad1.15x1.40mm_HandSolder
D2,D3,D4,D5,D6,D7,D8,D9	8	1N4148W	D_SOD-123
J1	1	USB_B_Micro	USB_Micro-B_AmphenoI_10118194_Horizontal
J10	1	PWR	PinHeader_1x02_P2.54mm_Vertical
J11,J8	2	AVR ISP	PinHeader_2x03_P2.54mm_Vertical
J2	1	TAPE IN/OUT	AUDIO_JACK_3.5MM_SMD_TRRS
J3	1	A/V	AUDIO_JACK_3.5MM_SMD_TRRS
J4	1	BUS	PinHeader_1x16_P2.54mm_Vertical
J5	1	KEYBOARD	PinHeader_2x10_P2.54mm_Vertical
J6	1	BUS	PinHeader_2x20_P2.54mm_Vertical
J7	1	JTAG	PinHeader_2x05_P2.54mm_Vertical
J9	1	RGB	PinHeader_1x06_P2.54mm_Vertical
JP2	1	ROMBANK0	PinHeader_1x02_P2.54mm_Vertical
JP3	1	ROMBANK1	PinHeader_1x02_P2.54mm_Vertical
JP4	1	FLASH	PinHeader_1x02_P2.54mm_Vertical
Q2	1	BC856	SOT-23
R16,R17,R18,R19	4	75	R_0805_2012Metric
R20	1	2k2	R_0805_2012Metric
R25	1	33k	R_0805_2012Metric
R31	1	4,7M	R_0805_2012Metric
R32	1	47k	R_0805_2012Metric
R34,R36	2	470	R_0805_2012Metric
R35	1	100	R_0805_2012Metric
R37,R38,R23,R33,R4,R39,R5	7	10k	R_0805_2012Metric
R6	1	1M	R_0805_2012Metric
R7,R10,R13	3	510	R_0805_2012Metric
R8,R11,R14,R24,R21,R22	6	1k	R_0805_2012Metric
R9,R12,R15	3	2k	R_0805_2012Metric
RN3,RN2,RN1,RN4,RN5,RN6,RN7,RN8,RN9	9	10k	R_Array_Convex_4x0612
SW1-SW42	42	SPST PTS810	small-btn
U1	1	Z80	TQFP-44_14x14mm_P0.8mm
U13	1	1117-3.3	SOT-223-3_TabPin2
U2	1	39F040	PLCC-32_11.4x14.0mm_P1.27mm-bigpads
U3	1	CY62167ELL	TSOP-I-48_18.4x12mm_P0.5mm
U4,U10	2	ATmega88	TQFP-32_7x7mm_P0.8mm
U5	1	ESP-12E	ESP-12E
U6	1	EPM3256ATC144	LQFP-144_20x20mm_P0.5mm
U7	1	MicroSD	Conn_uSDcard
U8	1	LM311	SO-8_3.9x4.9mm_P1.27mm
U9	1	AD724	SOIC-16W_7.5x10.3mm_P1.27mm
Y1	1	28MHz	Oscillator_SMD_EuroQuartz_XO91-4Pin_7.0x5.0mm
Y3	1	4.43MHz	Crystal_HC49-U_Vertical