

X-NUCLEO-IKA01A1 - BOM (1/1)

Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere / Type Tolerance / Technology informations	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Additional Notes
#	Quantity	Designator	Value	Part Number	Footprint	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Comment
1	4	C0, C1, C7, C14	0.1µF		SMD0603			
2	5	C2, C12, C17, C18, C23	22nF		SMD0603			
3	2	C3, C4	22pF		SMD0603			
4	7	C9, C15, C16, C19, C20, C21, C22	100pF		SMD0603			
5	1	C10	47pF		SMD0603			
6	1	C11	NOT MOUNTED		SMD0603			NOT MOUNTED
7	2	R8, R10	NOT MOUNTED		SMD0603			NOT MOUNTED
8	1	UV	NOT MOUNTED		SMD0805			NOT MOUNTED
9	1	C13	47nF		SMD0603			
10	2	Cf1, Cf2	3.3nF		SMD0603			
11	1	D1	Photodiode		Through Hole	Vishay	TEFD4300F	
12	1	D2	LED	Orange / Red	SMD0603			
13	2	D3, D4	Diode	BAT48JFILM	SOD-323	ST	BAT48JFILM	
14	1	Dusb	USB protection	ESDA7P60-1U1M	1610	ST	ESDA7P60-1U1M	
15	2	ESD1, ESD2	ESD Protection dual	ESDALCL6-2SC6	SOT23-6L	ST	ESDALCL6-2SC6	
16	1	ESD3	ESD Protection	ESDALC6V1-1M2	SOD882	ST	ESDALC6V1-1M2	
17	1	J1	USB A Connector					
18	1	J2	micro USB B Connector					
19	6	JP1, JP2, JP4, JP5, JP6, JP7	TSH 2.54mm		TSH 2,54			
20	1	JP3	TSH 2.54mm		TSH 2,54			
21	5	JP1, JP2, JP3, JP4, JP5	jumper					JP3 jumper must be set on "Internal 3.3V" position
22	1	P1	Potentiometer 100k					
23	1	P2	Potentiometer 500k					
24	4	Pr1, Pr2, Pr3, Pr4	connector					CAN BE REMOVED / NOT MOUNTED
25	10	LED_A, LED_K, OutA1, OutA2, OutB1, OutB2, Rgain_a, Rgain_b, TP0, TP1,	connector					CAN BE REMOVED / NOT MOUNTED
26	10	Buff_in, Buff_out, lin,lout, Inst_n, Inst_p, Rect_in, Rect_out, Vext, Win_in	connector					
27	1	Q1	NPN Transistor	NPN Transistor 30V 5A hFE 560 (max)	SOT-23	any		Mounted on board ST 3STR1630
28	4	R1, R2, R3, R4	Resistor	10k	SMD0603			
29	2	R5, R6	Resistor	47k	SMD0603			
30	4	R7, R9, R40,R47	Resistor	1M	SMD0603			
31	10	R11, R12, R13, R14, R15, R27, R28, R29, R31, R32	Resistor	10k	SMD0603			
32	2	R18, R25	Resistor	100k	SMD0603			
33	3	R19, R20, Rg	Resistor	1k	SMD0603			
34	1	R21	Resistor	33	SMD0603			
35	1	R22	Resistor	220k	SMD0603			
36	5	R23, R30, R33, R35, R37	Resistor	20k	SMD0603			
37	1	R24	Resistor	62k	SMD0603			
38	1	R26	Resistor	470k	SMD0603			
39	4	R34, R36, R38, R39	Resistor	39k	SMD0603			
40	2	Rf1, Rf2	Resistor	12k	SMD0603			
41	2	Rg1, Rg2	Resistor	100	SMD0603			
42	1	Rs	Resistor	20M	SMD0805			
43	1	TSU104IPT	OP Amp	TSU104IPT	TSSOP14	ST	TSU104IPT	
44	1	TSV734IPT	OP Amp	TSV734IPT	TSSOP14	ST	TSV734IPT	
45	1	TSZ124IPT	OP Amp	TSZ124IPT	TSSOP14	ST	TSZ124IPT	
46	1	CN5	2.54 mm pitch (10 pins)					
47	2	CN6, CN9	2.54 mm pitch (8 pins)					
48	1	CN8	2.54 mm pitch (6 pins)					