

PROJECT NAME: X-NUCLEO-PLC01A1

BILL OF MATERIALS

							If this field is shown is mandatory to use this type		
Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Type / TECHNOLOGY informations	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Additional Notes
1	4	C9, C23, C24, C27	100nF	50V		SMD 0402	TDK Corporation	C1005X7R1H104K050BB	
2	9	C3, C13, C14, C20, C25, C26, C40, C44, C45	33pF	50V		SMD 0402	TDK Corporation	C1005C0G1H330J050BA	
3	17	C4, C5, C6, C7, C8, C10, C11, C12, C29, C30, C31, C32, C34, C35, C36, C37, C28	22nF	50V		SMD 0603	TDK Corporation	C1608X7R1H223K080AA	
4	2	C15, C19	4.7 nF	3kV		Through Hole 10mm lead spacing	Vishay / BC Components	VY1472M63Y5UQ63V0	NOT MOUNTED
5	2	C16, C21	1uF	50V		SMD 0603	TDK Corporation	C1608X5R1H105K080AB	
6	1	C17	100uF	50V		SMD	Panasonic Electronic Components	EEE-FTH101XAP	
7	1	C18	33nF	50V		SMD 0603	TDK Corporation	C1608X7R1H333K080AA	
8	1	C22	10uF	6.3V		SMD 1206	Kemet	T491A106M006AT	
9	2	C38, C39	10nF	50V		SMD 0402	TDK Corporation	C1005X7R1H103K050BB	
10	1	C33	10nF	50V		SMD 0603	TDK Corporation	C1608X7R1H103K080AA	
11	1	C41	470nF	10V		SMD 0603	TDK Corporation	C1608X5R1A474K080AA	
12	1	C42	4.7uF	10V		SMD 0603	TDK Corporation	CGB3B1X5R1A475K055AC	
13	1	C43	100pF	50V		SMD 0603	TDK Corporation	C1608C0G1H101J080AA	
14	3	C46, C47, C48	100pF	50V		SMD0402	TDK Corporation	C1005C0G1H101F050BA	
15	2	C1, C2	100nF	50V		SMD 0805	TDK Corporation	C2012X7R1H104K085AA	
16	2	CN7, CN10	Morpho Connectors			Through Hole 2.54mm	Samtec	SSQ-119-04-L-D	NOT MOUNTED
17	1	CN5	Header_10			Through Hole 2.54mm	Samtec	SSQ-110-03-L-S	Mount Female on top, male on bottom
18	2	CN6, CN9	Header_8			Through Hole 2.54mm	Samtec	SSQ-108-03-L-S	Mount Female on top, male on bottom
19	1	CN8	Header_6			Through Hole 2.54mm	Samtec	SSQ-106-03-L-S	Mount Female on top, male on bottom
20	3	D24, D23, D22	LED (Red)			SMD 0603	OSRAM Opto Semiconductors Inc	LS L29K-G1J2-1-Z	
21	17	D11, D12, D13, D14, D15, D16, D17, D18, D2, D25, D26, D27, D28, D29, D30, D31, D32	LED (Green)			SMD 0603	OSRAM Opto Semiconductors Inc	LG L29K-G2J1-24-Z	
22	1	D21	BAT48			SOD-123	ST	BAT48ZFILM	
23	1	D19	SM15T33CA			SMC_B	ST	SM15T33CA	
24	1	D20	STPS1H100A			SMA	ST	STPS1H100A	
25	1	J5	Jumper_2		2 WAYS STRIP LINE- MALE HEADER 2.54mm	Through Hole 2.54mm			Mount with female jumper (*)
26	1	J8	INPUT_Connector		10 ways Screw connector	Through Hole 2.54mm	Phoenix Contact	1725711	
27	1	J10	OUTPUT_Connector		8 ways Screw connector	Through Hole 2.54mm	Phoenix Contact	1725737	
28	1	J11	Jumper_3		3 WAYS STRIP LINE- MALE HEADER 2.54mm	TH 2.54mm pitch			Mount with female jumper (*)
29	1	L1	100uH			SMD	Bourns Inc.	SRN4018-101M	
30	1	R15	330R			SMD 0402	Panasonic Electronic Components	ERJ-2GEJ331X	
31	2	R28, R38	0E			SMD 0402	Panasonic Electronic Components	ERJ-2GE0R00X	
32	11	R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68	680R			SMD 0402	Panasonic Electronic Components	ERJ-2GEJ681X	
33	2	R25, R49	47k			SMD 0402	Panasonic Electronic Components	ERJ-2GEJ473X	
34	1	R26	15k			SMD 0402	Panasonic Electronic Components	ERJ-2GEJ153X	
35	9	R27, R39, R41, R45, R50, R51, R52, R56, R57	220R			SMD 0402	Panasonic Electronic Components	ERJ-2GEJ221X	
36	9	R29, R30, R32, R33, R34, R35, R36, R37, R42	2K2			SMD 1206	TE Connectivity	CRG1206F2K2	
37	4	R40, R46, R47, R48	10k			SMD 0402	Panasonic Electronic Components	ERJ-2GEJ103X	
38	1	R43	1M5			SMD 0204	Vishay Beyschlag	MMA02040C1504FB300	
39	1	R44	120k			SMD 0204	Vishay Beyschlag	MMA02040C1203FB300	
40	1	R53	2k			SMD 0603	Panasonic Electronic Components	ERJ-3EKF2001V	
41	1	R54	10K			SMD 0603	Panasonic Electronic Components	ERJ-3GEYJ103V	
42	1	R55	3K3			SMD 0603	Panasonic Electronic Components	ERJ-3EKF3301V	
43	1	U3	Si Digital Isolator	6 channael-NB		16 Pin Narrow Body SOIC	Silicon Laboratories Inc	SI8661BC-B-IS1	
44	1	U1	CLT01-38SQ7			QFN	ST	CLT01-38SQ7	
45	1	U2	VNI8200XP			PowerSSO-36	ST	VNI8200XP	
46	7	R1, R2, R3, R4, R5, R6, R13	0E		TIN DROP JUMPER				CLOSED
47	2	(*) Jumper			Female shunt jumper 2.54mm		3M	969102-0000-DA	