Knock Box Schematic

Rev: 1.0

by Mario Peraza and Leander Ullmann

2023-11-15

	Sour ced	Plac ed	References	Value	MFR Part Number	Supplier 1 Part Number	Qua nti ty
1			C3, C5, C10, C15, C16, C19, C21, C22, C23	10uF	GRM21BR61C106KE15K	490-6473-1-ND	9
2			C1, C4, C6, C7, C11, C12, C13, C14	1uF	GRM21BR71C105KA01L	490-1691-1-ND	8
3			C2, C18, C20	220pF	GRM21A5C2E221JW01D	490-13371-1-ND	3
4			C8, C9	22pF	GRM21A5C2D220JW01D	490-14650-1-ND	2
5			C17	0.1uF	GRM21B7U1A104JA01L	490-11592-1-ND	1
6			R2, R3, R4, R5, R6, R8, R12, R13	10K	RMCF0805FT10K0	RMCF0805FT10K0CT-ND	8
7			R9, R15, R16, R17, R20	1K	RMCF0805FT1K00	RMCF0805FT1K00CT-ND	5
8			R1, R10, R11, R23	100K	RMCF0805FT100K	RMCF0805FT100KCT-ND	4
9			R14, R19, R21	2.2K	RMCF0805FT2K20	RMCF0805FT2K20CT-ND	3
10			R7	68	RMCF0805JT68R0	RMCF0805JT68R0CT-ND	1
11			R18	6.8K	RMCF0805FT6K80	RMCF0805FT6K80CT-ND	1
12			R22	1M	RMCF0805JT1M00	RMCF0805JT1M00CT-ND	1
13			L1	10uH	CV201210-100K	CV201210-100KCT-ND	1
14			D3, D6	RED LED	LTST-C191KRKT	160-1447-1-ND	2
15			D1	D_Schottky	RB550VM-30TE-17	846-RB550VM-30TE- 17CT-ND	1
16			D2	ORANGE LED	LTST-C191KFKT	160-1445-1-ND	1
17			D4	NeoPixel_THT	1655	1528-1104-ND	1
18			D5	BLUE LED	LTST-C191TBKT	160-1647-1-ND	1
19			D7	GREEN LED	LTST-C191KGKT	160-1446-1-ND	1
20			U1	AP2112K-3.3	AP2112K-3.3TRG1	AP2112K-3.3TRG1DICT- ND	1
21			U2	ATSAMD51J19A -A	ATSAMD51J19A-AUT	ATSAMD51J19A-AUTCT- ND	1
22			U3	MCP73831-2- OT	MCP73831T-2ACI/OT	MCP73831T-2ACI/OTCT- ND	1
23			U4	ESP32-S3- WROOM-1- N16R8	ESP32-S3-WROOM-1- N16R8	1965-ESP32-S3-WROOM- 1-N16R8CT-ND	1
24			U5	74AHC1G125	SN74AHC1G125DBVR	296-8744-1-ND	1

	2.25, 15.29 Knock Box Schematic Bolvi						
	Sour ced	Plac ed	References	Value	MFR Part Number	Supplier 1 Part Number	Qua nti ty
25			U6	MAX98357AETE +T	MAX98357AETE+T	MAX98357AETE+TCT-ND	1
26			Y1	Crystal	ECS327-12.5-34B-TR	XC1617CT-ND	1
27			SW1	KMR231NG LFS	KMR231NG LFS	CKN10246CT-ND	1
28			H1, H2, H3, H4	MountingHole			4
29			FB1, FB2	FerriteBead	HI0805Q310R-10	240-2394-1-ND	2
30			TP1, TP2	TestPoint	5000	36-5000-ND	2
31			JP1	~			1
32			MK1	SPH0645LM4H	SPH0645LM4H-B	423-SPH0645LM4H-BCT- ND	1
33			Q1	BSS84	BSS84-7-F	BSS84-FDICT-ND	1
34			S1	SS-24E06- TG_5P_	SS-24E06-TG 5 (P)	CKN10394-ND	1
35			J2, J3, J8	Molex2	0022232021	900-0022232021-ND	3
36			J4, J11	B2B-PH-SM4- TB	B2B-PH-SM4-TB	455-B2B-PH-SM4-TBCT- ND	2
37			J7, J10	61300311121	61300311121	732-5316-ND	2
38			J 1	3221-10- 0300-00	3221-10-0300-00	1175-1735-ND	1
39			J5	61300911021	61300911021	732-5342-ND	1
40			Ј6	USB_C_Recept acle_USB2.0	U262-161N-4BVC11	C319148	1
41			J9	Molex3	0022232031	WM4201-ND	1
42			J12	OSTVN02A150	OSTVN02A150	ED10561-ND	1