RutAdptBoard-TextToSpeech-REV2.0 Bill Of Materials

Item # Designator	Part Description	Value	Footprint		Ougntitu	Manufacturer	Manufacturer Part No.	Supplier Supplier part number
		100nF			,			Rutronik KKK21419
1 C1, C2, C6, C11, C13, C19, C20, C21, C22, C23, C27, C28, C29	Ceramic Capacitor		C0402	X7R, 16V, 10%			CL05B104KO5NNNC	
2 C3, C10	Ceramic Capacitor	10nF	C0402	X7R, 16V, 10%			CL05B103KO5NNNC	Rutronik KKK22033
3 C4, C5, C15, C25, C26, C30, C31	Ceramic Capacitor	4.7uF	C0402	X5R, 6.3V, 20%		•	CL05A475MQ5NRNC	Rutronik KKS1042
4 C7, C12, C14	Ceramic Capacitor	1uF	C0402	X7R, 16V, 10%		•	CL05A105KO5NNNC	Rutronik KKS1052
5 C8, C9	Ceramic Capacitor	39nF	C0402	X7R, 16V, 10%			KC39N0603X7R050K	Rutronik KKK14359
6 C16	Ceramic Capacitor	4.7nF	C0402	X7R, 50V, 10%		Yageo	CC0402KRX7R9BB472	
7 C17	Ceramic Capacitor	33pF	C0402	NP0, 50V, 5%		Yageo	CC0402JRNPO9BN330	
8 C18, C24	Ceramic Capacitor	10pF	C0402	NP0, 50V, 5%		Yageo	CC0402JRNPO9BN120	
9 D1, D2, D6	Typical SMD LED	LT QH9G-Q2OO-25-2Z4Y	PICOLED	Green, 5mA	3	OSRAM	LT QH9G-Q2OO-25-2Z	
10 D3	Typical SMD LED	VLMS1500-GS08	PICOLED	Red, 5mA		Vishay	VLMS1500-GS08	Rutronik LED24641
11 D4, D5	Low VF Schottky Barrier Rectifier	RSX201LAM30TR	SOD323	30V, 2A		ROHM	RSX201LAM30TR	Rutronik RB168VAM150TR
12 GND1	SMT Test Point	5019	5019_KEYSTONE	3.81*2.03	1	Keystone Electrin	5019	Rutronik BAT4950
13 J1	Micro USB Connector	MCR-B-S-RA-TSMT-CS4A-T/R	MCR-B-S-RA-TSMT	- Туре В	1	ADAM TECH	MCR-B-S-RA-TSMT-CS	4 Rutronik CONIO1874
14 L1, L2	noise suppression inductor	NFZ15SG331SN11	0402-A	DCR0.3Ω, 0.65A,	2	Murata	NFZ15SG331SN11	Rutronik NFZ15SG331SN11D
15 L3	noise suppression inductor	NFZ15SG101SN11	0402-A	DCR0.1Ω, 1.1A, 1	1 1	Murata	NFZ15SG101SN11	Rutronik NFZ15SG101SN11D
16 P1	Arduino Connectors KIT	RS1-10-G-413	HDR1X10_3	10 pos. 2,54mm	1	ADAM TECH	RS1-10-G-413	Rutronik CONN1443
17 P2,P6	Arduino Connectors KIT	RS1-08-G-413	HDR1X8_3D	8 pos. 2,54mm	2	ADAM TECH	RS1-08-G-413	Rutronik CONN2043
18 P5	Arduino Connectors KIT	RS1-06-G-413	HDR1X6_3D	6 pos. 2,54mm	1	ADAM TECH	RS1-06-G-413	Rutronik CONN2042
21 R1, R4	Thick Film Resistor	49.9K	R0402	1% 0,063W	2	Yageo	RC0402FR-0749K9L	Rutronik WRC34049
20 R2, R3	Thick Film Resistor	510	R0402	5% 0,063W	2	Yageo	RC0402JR-071ML	Rutronik WRC33904
21 R5, R6, R8, R16	Thick Film Resistor	1K	R0402	5% 0,063W	4	ASJ, Yageo	CR10-221-JK, RC0402J	Rutronik WRC35108, WRC33833
22 R7, R9, R10, R11, R15, R19, R21, R23, R24, R25, R28, R29	Thick Film Resistor	10K	R0402	5% 0,063W	12	ASJ, Yageo	CR10-103-JK, RC0402J	Rutronik WRC40976, WRC33854
23 R12	Thick Film Resistor	1M	R0402	5% 0,063W	1	Yageo	RC0402JR-071ML	Rutronik WRC33904
24 R13	Thick Film Resistor	200K	R0402	5% 0,063W	1	ASJ	AF0402JR-07200KL	Rutronik AF0402JR-07200KL
25 R14	Thick Film Resistor	10M	R0402	5% 0,063W	1	ASJ	AC0603JR-0710ML	Rutronik WRC53565
26 R26	Thick Film Resistor	100K	R0402	5% 0,063W	1	Yageo	RC0402JR-07100KL	Rutronik WRC33855
27 R27	Thick Film Resistor	2.2K	R0402	5% 0,063W	1	Yageo	RC0402JR-072K2L	Rutronik WRC33840
28 S1	SWITCH SLIDE DIP SPST 25MA 24V	A6H-8102	SOIC127P670X195-	18 pos. 2,54mm	1	Omron	A6H-8102	Rutronik A6H-8102
29 SB2, SB6, SB9, SB12, SB14	JUMPER	0R	SB_0402	1/16W	5	Yageo	RC04020R	Rutronik WRC52534
30 U1	Amplifier IC Class D	DFN8	SON65P300X300X6	55.5V 2.8W x 1 @		STMicroelectronic		Rutronik ICOP6251
31 U2	USB Bridge, USB to I ² C USB 2.0 UART Interface	-	QFN50P500X500X1				CY7C65215-32LTXI	Rutronik CY7C65215-32LTXI
32 U3	1.2 A current limited high-side power switch with therm	ST890DTR	DFN8L 3X3	2.7 5.5V, 1.2A		STMicroelectronic		Rutronik ST890DTR
33 U4	Ultra large bandwidth ESD protection	USBULC6-2M6	MICRO QFN 6L	6V, 0.6pF		STMicroelectronic		Rutronik DTRL11259
34 U5	300 mA low quiescent current very low noise LDO	LDK130M33R	SOT23-5L	3.3V, 300mA		STMicroelectronic		Rutronik ICSPR9313
35 U6	Text-to-Speech IC	S1V3G340F01A900	LQFP12-48	, -			S1V3G340F01A900	Rutronik ICPER6856
36 U7	IC FLASH 64M SPI 108MHZ	-	SOIC127P800X216-	864Mb (8M x 8)			S25FL064LABMFN010	Rutronik S25FL064LABMFN010
37 X1	XTAL 3.2x1.5mm	X1A000141000312	XTAL 3215	32.768 kHz, 12.5r		, i	X1A000141000312	Rutronik QUARZ6278
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