BOM

RF-ARS-Student

Layer	Material	Description	Unit	Qty	Mass(g)	Color	Ver.	RoHS	Remarks
1	PVC Key for student	PVC,BHS-01	PCS	1.0000				Y	Manufactured,B1-B19
2	ABS Case for student	ABS,BHS-01	PCS	1.0000				Y	Manufactured
3	Battery case for Student	ABS,BHS-01	PCS	1.0000				Y	Manufactured
4	BHS-01-S PCBA Assembly	BHS-01-S PCBA assembly	PCS	1.00000				Y	Manufactured
5	LCD socket	Socket,BHS-01, (ST7565)	PCS	1.00000			V02	Y	JP3
6	Battery contact	BTH-01-S	PCS	1.0000				Y	JP1
7	Resistor SMT	22KΩ ±1% 0402	PCS	1.00000				Y	R2
8	Resistor SMT	100KΩ 0.125W ±5% 0603	PCS	1.00000				Y	R50
9	Resistor SMT	1M 0.125W ±5% 0402	PCS	1.00000				Y	R1
10	Resistor SMT	0Ω 0.125W ±5% 0805	PCS	1.00000				Y	R5
	Resistor SMT	51KΩ ±5% 0603	PCS	2.00000				Y	R10,R11
12	Capacitor SMT	CAP-CHIP 1nF K(±10%) 25V C0402	PCS	1.00000			V02	Y	C8
13	Capacitor SMT	GRM155R71E103K 10nF,±10%,X7R, 0402	PCS	1.00000				Y	С9
14	Capacitor SMT	22pF ±2%,16V,0402 NPO	PCS	2.00000				Y	C1,C2
15	Capacitor SMT	33nF ±10%,50V,0603 N7R	PCS	1.00000				Y	C7
16	Capacitor SMT	0.1uF ±10%,25V 0603	PCS	4.00000			V02	Y	C51,C53,C54,C63
17	Capacitor	0.1uF ±10% 50V 0805	PCS	1.00000			V02	Y	C75
18	Capacitor SMT	2.2nF ±10% 16V 0402,N7R	PCS	1.00000				Y	C3
19	Capacitor	1uF ±10% 0603 SMD	PCS	9.00000				Y	CD1~CD9
20	Capacitor	100nF 0603,10V	PCS	1.00000				Y	C20
21	Capacitor	100uF,6.3V,7227	PCS	3.00000			V02	Y	C57,C62,C74
22	Capacitor	10uF +80%-20% 16V 3216	PCS	1.00000			V02	Y	C19
23	Capacitor SMT	4.7pF ±0.25pF,50V,0402 NPO	PCS	1.00000				Y	C4
24	Capacitor SMT	1.5pF ±0.1pF,50V,0402 NPO	PCS	1.00000			V02	Y	C5
25	Capacitor SMT	1.0pF ±0.1pF,50V,0402 NPO	PCS	1.00000				Y	C6
26	Capacitor SMT	10n	PCS	1.00000				Y	C21
27	IC	CAT809,SOT-23	PCS	1.00000				Y	U13
28	IC	P89LPC936,TSSOP-28,Philips	PCS	1.00000				Y	U8
29	IC	74HC595,SO-16,Philips	PCS	2.00000				Y	U11,U12
30	IC	NRF24L01,QFN20,NORDIC	PCS	1.00000				Y	U1
31	IC	AT24C64,SO-8,ATMEL	PCS	1.00000				Y	U10
32	Inductor SMT	LQG15HS8N2J02,8.2nH,0402,Murata	PCS	1.00000				Y	L1

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33	Inductor	Chip inductor 3.9nH ±5% 0402 LQG18HN3N9J00D	PCS	1.00000				Y	L3
34	Inductor	Chip inductor 2.7nH ±5% 0402 LQG18HN2N7J	PCS	1.00000				Y	L2
35	Inductor	100uH 1206	PCS	3.00000				Y	L6,L7,L9
36	Crystal Oscillator	16MHz ,±60ppm,Cl=12pF,XTAL3	PCS	1.00000				Y	X1
37	LCD	TG12832-COG1, liquid crystal display	PCS	1.00000				Y	Sourced
38	РСВ	FR4 double-layer, gold-coated, T=1.0mm for BHS-01-S	PCS	1.00000				Y	Sourced
39	Antenna	2.4GHZ antenna,50Ω,Chip ANT,SMT	PCS	1.0000				Y	Sourced