

BOM

Model	SH02T	Ver	A1
Item	Description	QTY	Remark
1	SH02T Camera PCBA	1	
2	Resistor 1/10W OR $\pm 5\%$ 0603	1	R4
3	Resistor 1/8W 2R0 $\pm 5\%$ 0805	1	R3
4	Resistor 1/10W 10K $\pm 5\%$ 0603	1	R5
5	Resistor 1/10W 1M $\pm 5\%$ 0603	1	R8
6	Resistor 1/10W 270R $\pm 5\%$ 0603	1	R12
7	Resistor 1/10W 330K $\pm 5\%$ 0603	1	R17
8	Resistor 1/10W 330R $\pm 5\%$ 0603	1	R9
9	Resistor 1/10W 33K $\pm 5\%$ 0603	3	R30-31
10	Resistor 1/10W 75R $\pm 5\%$ 0603	1	R10
11	Capacitor 33pF $\pm 5\%$ 50V NPO 0603	2	C30-31
12	Capacitor 200pF $\pm 10\%$ 50V X7R 0603	1	C33
13	Capacitor 10nF $\pm 10\%$ 50V X7R 0603	2	C32, 35
14	Capacitor 0.1uF +80%~-20% 25V Y5V 0603	4	C36, 38, 40, 42
15	Capacitor 1uF +80%~-20% 16V Y5V 0603	6	C14, 24, 26-29
16	Capacitor 10uF +80%~-20% 16V Y5V 1206	4	C34, 37, 41, 43
17	Tan Capacitor 100uF $\pm 20\%$ 6.3V B 3528	2	C5, 6
18	FB 600 Ω $\pm 25\%$ 100MHz 1000mA 0603	1	L1
19	IC CMOS Sensor OV7949-C20A Ovmision CLCC-48	1	U5
20	IC LDO RT9161/A RichTek SOT-89	1	U6
21	Transistor NPN SMT3904 SOT-23	2	Q4-5
22	Transistor PNP 2SB1132 SOT-89	1	Q2
23	Xtal 14.31818MHz ± 15 PPM CL=16PF $\phi 3 \times 8$	1	X1
24	Connector 1 \times 3Pin P=2.0mm 180°	1	J5
25	Connector 1 \times 2Pin P=1.27mm 180°	2	J3-4
26	IR LED 850 $\phi 3$ 45	1	D11
27	PCB FR4 SH02TMBA0 114 \times 100 \times T0.8mm 1 \times 5	1	PCB
28	SH02T IR PCBA	1	
29	LLS $\phi 5$ mm	1	R38
30	IR LED 850 $\phi 6$ 60°	7	D6-10, 12-13
31	PCB FR4 SH02TIRA0 84 \times 84 \times T0.8mm 1 \times 5	1	PCB
32	SH02T Power PCBA	1	
33	Resistor 1/10W OR $\pm 5\%$ 0603	1	R13
34	Resistor 1/8W OR47 $\pm 5\%$ 0805	2	R2, 18
35	Resistor 1/8W 1R2 $\pm 5\%$ 0805	1	R14
36	Resistor 1/10W 3R9 $\pm 5\%$ 0603	2	R20-21
37	Resistor 1/10W 100R $\pm 5\%$ 0603	1	R6
38	Resistor 1/10W 10K $\pm 5\%$ 0603	2	R23, 27
39	Resistor 1/10W 1K $\pm 5\%$ 0603	2	R7, 25
40	Resistor 1/10W 20K $\pm 5\%$ 0603	1	R19

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41	Resistor 1/10W 330R ±5% 0603	1	R28
42	Resistor 1/10W 30K ±5% 0603	2	R22, 26
43	Resistor 1/10W 47K ±5% 0603	2	R1, 29
44	Capacitor 470pF±5% 50V NPO 0603	1	C21
45	Capacitor 1nF ±10% 50V X7R 0603	1	C20
46	Capacitor 10nF ±10% 50V X7R 0603	2	C3, 19
47	Capacitor 0.1uF +80%~-20% 25V Y5V 0603	3	C4, 9, 25
48	Capacitor 1uF +80%~-20% 16V Y5V 0603	2	C2, 18
49	Capacitor 1uF +80%~-20% 25V Y5V 0805	2	C1, 13
50	Tan Capacitor 2.2uF±20% 25V B 3528	4	C8, 15-17
51	Tan Capacitor 22uF ±20% 16V B 3528	2	C7, 23
52	Inductor 22uH >1.5A (DRB53) SMD	1	L4
53	Diode RB491D(D2E) SMD3 Rohm	1	D4
54	Diode SS14 SMA	2	D1, 3
55	Transistor PNP 2SB1132 SOT-89	1	Q3
56	FET N ch APM2300AAC SOT-23	1	Q6
57	FET P ch A03415 SOT-23	2	Q1, 7
58	IC LM3485 MSOP8 NS	1	U4
59	IC R5402N110KD SOT-23-6 Ricoh	1	U2
60	IC VA7205DF MSOP-8	1	U1
61	IC A09926A SOP-8	1	U3
62	Capacitor 1×3Pin P=2.0mm 90°	2	J7
63	Li-Battery 1200mAh 3.7V 40.5×23×17.8mm	1	BAT
64	SH02T Connector PCBA	1	
65	Resistor 1/10W 220R ±5% 0603	1	R33
66	Resistor 1/10W 33K ±5% 0603	3	R32
67	Diode 1N4148 LL-34	2	D14-15
68	LED Green+Red φ3	1	D2
69	Capacitor 1×5Pin P=1.27mm 180°	1	J2
70	Capacitor 1×2Pin P=1.27mm 180°	1	J17
71	DC Capacitor 3pin 90° φ4.5×φ1.3 DC-002-RS, DC-313-D, DS-313	1	J1
72	Transistor NPN SMBT3904 SOT-23	1	Q8
73	Power Switch 2 2.9×3.6×2.3mm PB-22E60	1	SW1
74	Transmitting Module 2.4GHz PCBA	1	TX
75	PCB RT01 1.0mm FR-4 22.7X17.5	1	PCB
76	Capacitor 1R0±0.1P 50V NPO 0402	1	C2
77	Capacitor 100±5% 50V NPO 0402	2	C1, C7
78	Capacitor 330±5% 50V NPO 0402	2	
79	Capacitor 390±5% 50V NPO 0402	1	
80	Capacitor 103±10% 50V X7R 0402	4	C3, C103

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81	Capacitor 153±10% 25V X7R 0402	1	
82	Capacitor 104±20% 16V X7R 0402	1	C24
83	Capacitor 474±80%~-20% 6.3V Y5V 0402	1	C21
84	Capacitor 105±80%~-20% 6.3V Y5V 0402	1	C13
85	Capacitor 105±+80%~-20% 16V Y5V 0603	2	
86	Capacitor 475+80%~-20% 10V Y5V 0805	1	C18
87	Capacitor 106+80%~-20% 16V Y5V 0805	2	C19, C25
88	Resistor 1/16W 000±5% 0402	1	R1
89	Resistor 1/16W 390±5% 0402	1	R2
90	Resistor 1/16W 680±5% 0402	1	
91	Resistor 1/16W 750±5% 0402	1	
92	Resistor 1/16W 101±5% 0402	1	R21
93	Resistor 1/16W 122±5% 0402	2	
94	Resistor 1/16W 103±5% 0402	7	R19, R20, R30, R33, R34, R35, R36
95	Resistor 1/16W 203±5% 0402	1	R10
96	Resistor 1/16W 104±5% 0402	1	R22
97	Inductor 3.3nH±0.3nH 0402	1	L3
98	Inductor 4.7nH±0.3nH 0402	1	L2
99	Inductor 8.2nH±0.3nH 0402	1	L1
100	XYAL 8.000MHz Φ3×8 ±30PPM/15pF	1	
101	Filter 2400MHz 3.2×1.6mm BF3216-B2R4DABT/LF	1	F1
102	IC RT9167A-33PB SOT-23-5	1	
103	IC RTC6701 QFN32	1	U2