

## Touch Key Solution for Air-con 空调控制器触摸按键应用

### BOM List

Item	Ref	Value	Type / Package	Manufacture	Description
1	Q251	3904		SMT	Transistor
2	Q251	3904		SMT	Transistor
3	Q231	3906		SMT	Transistor
4	Q232	3906		SMT	Transistor
5	Q233	3906		SMT	Transistor
6	Q234	3906		SMT	Transistor
7	Q335	3906		SMT	Transistor
8	Q253	3906		SMT	Transistor
9	HA251		BUZZER-12V		BUZZER
10	C1	0.1uF		SMT	Capacitor
11	C101	0.1uF		SMT	Capacitor
12	C121	0.1uF		SMT	Capacitor
13	C123	0.1uF		SMT	Capacitor
14	C151	0.1uF		SMT	Capacitor
15	C153	0.1uF		SMT	Capacitor
16	C161	0.1uF		SMT	Capacitor
17	C163	0.1uF		SMT	Capacitor
18	C181	0.1uF		SMT	Capacitor
19	C231	0.1uF		SMT	Capacitor
20	C263	0.1uF		SMT	Capacitor
21	C282	0.1uF		SMT	Capacitor
22	C291	0.1uF		SMT	Capacitor
23	C111	18pF		SMT	Capacitor
24	C112	18pF		SMT	Capacitor
25	C261	18pF		SMT	Capacitor
26	C262	18pF		SMT	Capacitor
27	C251	100uF/50V			Capacitor
28	C122	10uF/25V			Capacitor
29	C152	10uF/25V			Capacitor
30	C281	10uF/25V			Capacitor
31	C292	47uF/16V			Capacitor
32	C162	100uF/50V			Capacitor
33	C164	47uF/16V			Capacitor
34	ROOM	CN-2-2.54			Connector
35	TUBE	CN-2-2.54			Connector
36	CN161	12V-3			Power connector
37	CN101	CN-5-2.54			Connector
38	CN171	CN-10-2.54			Connector
39	DEB	CN-14-2.54			Debugger Interface

40	D281	IN4148			DIODE
41	U231	ULN2003A		SMT	IC
42	U101	ULN2003A		SMT	IC
43	U181	AT24C02		SMT	IC
44	IC1	R5F21368SNFA		SMT	IC
45	KEY281	4pin-key			Key
46	4V	LED_0805	RED	SMT	LED
47	COMP	LED_0805	RED	SMT	LED
48	COOL	LED_0805	RED	SMT	LED
49	DRY	LED_0805	RED	SMT	LED
50	FAN	LED_0805	RED	SMT	LED
51	HEAT	LED_0805	RED	SMT	LED
52	HIGH	LED_0805	RED	SMT	LED
53	LOW	LED_0805	RED	SMT	LED
54	MED	LED_0805	RED	SMT	LED
55	OFAN	LED_0805	RED	SMT	LED
56	PG	LED_0805	RED	SMT	LED
57	POWER	LED_0805	RED	SMT	LED
58	LED1	LED_0805	RED	SMT	LED
59	LED2	LED_0805	RED	SMT	LED
60	LED3	LED_0805	RED	SMT	LED
61	LED4	LED_0805	RED	SMT	LED
62	LED5	LED_0805	RED	SMT	LED
63	LED6	LED_0805	RED	SMT	LED
64	LED7	LED_0805	RED	SMT	LED
65	LED8	LED_0805	RED	SMT	LED
66	LED9	LED_0805	RED	SMT	LED
67	LED10	LED_0805	RED	SMT	LED
68	LED11	LED_0805	RED	SMT	LED
69	LED12	LED_0805	RED	SMT	LED
70	LED13	LED_0805	RED	SMT	LED
71	LED14	LED_0805	RED	SMT	LED
72	LED15	LED_0805	RED	SMT	LED
73	OSC	OSC-20M			OSC
74	REC291	SDP8600-001	Carrier-38K		Infrared Receive
75	R161	2K		SMT	Resistance
76	R171	2K		SMT	Resistance
77	R172	2K		SMT	Resistance
78	R173	2K		SMT	Resistance
79	R174	2K		SMT	Resistance
80	R181	470		SMT	Resistance
81	R182	470		SMT	Resistance
82	R183	10K		SMT	Resistance
83	R184	10K		SMT	Resistance
84	R231	100		SMT	Resistance
85	R232	100		SMT	Resistance
86	R233	100		SMT	Resistance
87	R234	100		SMT	Resistance
88	R235	100		SMT	Resistance
89	R236	100		SMT	Resistance
90	R237	100		SMT	Resistance
91	R262	1K		SMT	Resistance
92	R263	1K		SMT	Resistance
93	R264	1K		SMT	Resistance
94	R265	1K		SMT	Resistance
95	R266	1K		SMT	Resistance

96	R267	1K		SMT	Resistance
97	R268	1K		SMT	Resistance
98	R269	1K		SMT	Resistance
99	R2313	1K		SMT	Resistance
100	R2610	1K		SMT	Resistance
101	R2611	1K		SMT	Resistance
102	R2612	1K		SMT	Resistance
103	R2613	1K		SMT	Resistance
104	R2614	1K		SMT	Resistance
105	R2615	1K		SMT	Resistance
106	R2616	1K		SMT	Resistance
107	R291	100		SMT	Resistance
108	R293	10K		SMT	Resistance
109	R281	10K		SMT	Resistance
110	R257	150		SMT	Resistance
111	R292	150		SMT	Resistance
112	R151	15K		SMT	Resistance
113	R111	1K		SMT	Resistance
114	R238	1K		SMT	Resistance
115	R239	1K		SMT	Resistance
116	R2310	1K		SMT	Resistance
117	R2311	1K		SMT	Resistance
118	R2312	1K		SMT	Resistance
119	R261	1K		SMT	Resistance
120	R251	2.7K		SMT	Resistance
121	R252	2.7K		SMT	Resistance
122	R253	2.7K		SMT	Resistance
123	R254	2.7K		SMT	Resistance
124	R255	2.7K		SMT	Resistance
125	R256	2.7K		SMT	Resistance
126	R122	20K		SMT	Resistance
127	R131	4.7K		SMT	Resistance
128	R132	4.7K		SMT	Resistance
129	R121	510		SMT	Resistance
130	R152	510		SMT	Resistance
131	V121	10K			Variable Resistance
132	V151	10K			Variable Resistance
133	SEG231	CAI5202BH			7-Segment
134	DOWN	LED_1206	RED	SMT	LED
135	FANSPEED	LED_1206	RED	SMT	LED
136	HEALTH	LED_1206	RED	SMT	LED
137	MODE	LED_1206	RED	SMT	LED
138	ONOFF	LED_1206	RED	SMT	LED
139	SET	LED_1206	RED	SMT	LED
140	SLIDE2	LED_1206	RED	SMT	LED
141	SLIDE3	LED_1206	RED	SMT	LED
142	SLIDE4	LED_1206	RED	SMT	LED
143	SLIDE5	LED_1206	RED	SMT	LED
144	SLIDE6	LED_1206	RED	SMT	LED
145	SLIDE7	LED_1206	RED	SMT	LED
146	TIMEROFF	LED_1206	RED	SMT	LED
147	TIMERON	LED_1206	RED	SMT	LED
148	UP	LED_1206	RED	SMT	LED
149	IC_7805	L7805C2T		SMT	IC