

TCL communication (International) Ltd.

Bill of Material

BOM Number:	00-218		
Description:	FRS using standard battery		
Customer Model:	TL-218		Section: 電子部份
Prepared by:	BENNY LAU		日期: 27/3/2001
Checked by:			日期:

Seq.	Type	Description	Qty	Location
Main PCB				
1	PCB	FR4 D.S., thickness= 1mm, 1oz copper 101 x 50.6 mm	1	
2	IC	DBL5020V	1	U4
3	IC	ELM99333A LOD regulator 3.3V	1	IC2
4	IC	LM386 Power Amplifier	1	U3
5	Electric Cap.	100uF 10V±20% 6*8MM	2	C108, 93
6	Electric Cap.	10uF 10V±20% 4*7MM	4	C92, 123, 124, 125
7	Electric Cap.	47uF 10V±20% 4*7MM	1	C94
8	Electric Cap.	0u47uF 10V±20% 4*7MM	1	C103
9	Chip Cap.	100nF 16V+80-20% Y5V 0603	3	C88, 111, 128
10	Chip Cap.	1nF 16V +80-20% Y5V 0603	1	C119
11	Chip Cap.	10nF 16V +80-20% Y5V 0603	3	C99, 98, 122
12	Chip Cap.	1uF 16V+80-20% Y5V 0603	3	C104, 105, 85
13	Chip Cap.	330nF 16V+80-20% Y5V 0603	1	C117
14	Chip Cap.	220nF 16V+80-20% Y5V 0603	1	C80
15	Chip Cap.	47nF 16V+80-20% Y5V 0603	6	C91, 76, 118, 97, 101, 95
16	Chip Cap.	22nF 16V+80-20% Y5V 0603	1	C120
17	Chip Cap.	22nF 16V+80-20% Y5V 0603	1	C82
18	Chip Cap.	820pF 16V+80-20% Y5V 0603	1	C78
19	Chip Cap.	6.8nF 16V+80-20% Y5V 0603	1	C74
20	Chip Cap.	4.7nF 16V+80-20% Y5V 0603	2	C90, 112
21	Chip Cap.	2.2uF 10V+80-20% Y5V 0805	2	C84, 79
22	Chip Cap.	10uF 10V+80-20% Y5V1206	1	C87
23	Chip Resistor	10Ω ±5% 1/10W 0603	1	R48
24	Chip Resistor	2.4KΩ ±5% 1/10W 0603	1	R123
25	Chip Resistor	3.3KΩ ±5% 1/10W 0603	2	R130, 65
26	Chip Resistor	1KΩ ±5% 1/10W 0603	1	R144
27	Chip Resistor	2KΩ ±5% 1/10W 0603	1	R66
28	Chip Resistor	10KΩ ±5% 1/10W 0603	5	R34, 36, 120, 52, 67
29	Chip Resistor	51KΩ ±5% 1/10W 0603	1	R35
30	Chip Resistor	15KΩ ±5% 1/10W 0603	2	R49, 50
31	Chip Resistor	47KΩ ±5% 1/10W 0603	3	R107, 40, 64
32	Chip Resistor	68KΩ ±5% 1/10W 0603	1	R119
33	Chip Resistor	22KΩ ±5% 1/10W 0603	1	R45
34	Chip Resistor	100KΩ ±5% 1/10W 0603	2	R121, 118
35	Chip Resistor	180KΩ ±5% 1/10W 0603	1	R55
36	Chip Resistor	470KΩ ±5% 1/10W 0603	1	R122
37	Chip Resistor	5.6KΩ ±5% 1/10W 0603	1	R37
38	Chip Resistor	3.9KΩ ±5% 1/10W 0603	1	R56
39	Chip Resistor	6.8KΩ ±5% 1/10W 0603	1	R54
40	Chip Resistor	0Ω ±5% 1/10W 0603	6	R47, R128, R132, R133, R131, C77
41	Chip Resistor	620Ω ±5% 1/10W 0603	1	R38
42	Chip Resistor	12KΩ ±5% 1/10W 0603	1	R68
43	Chip Resistor	1MΩ ±5% 1/10W 0603	1	R39
44	Chip Resistor	91KΩ ±1% 1/10W 0603	1	R104
45	Chip Resistor	220KΩ ±1% 1/10W 0603	1	R102
46	Chip Resistor	15KΩ ±1% 1/10W 0603	1	R103
47	Chip Resistor	1KΩ ±1% 1/10W 0603	1	R117
48	Chip Resistor	51KΩ ±1% 1/10W 0603	1	R101
49	Diode	LL4148 (SMD) SOD-80	4	D5, 6, 10, 11
50	Transistor	KTA1504Y SOT23	2	Q9, 14
51	Transistor	KTC3875G SOT-23	4	Q11, 12, 13, 15
52	Volume	F-09N B10K	1	VR2
53	Speaker	36B2508-1011C 8 ohm, 36mm, 0.25W	1	SPK1
54	Switch	TACT SWITCH RS-112GAI	1	SW1
55	Jack	EJ-2507A	1	JK1
56	LCD	PWT1001T-P1, 1/2 duty, 2com*6seg, 3V, 1/2 bias	1	LCD1
57	Heat Seal	HEAT SEAL 8 PIN, 1.8mm Pitch, 15mm	1	

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Seq.	Type	Description	Qty	Location
58	Flat Cable	19 pin cable, 1mm pitch, 20mm length 2+2	1	
59	MIC	2.2K ohm, 1.5V-42±2dB	1	MIC3
	RF Section			
60	IC	DBL5019V	1	U1
61	IC	M64082AGP	1	U2
62	Transistor	2SC5066Y SSM	3	Q1, 4, 5
63	(FET) Transistor	3SK320 USQ	1	Q3
64	Transistor	HMBT1015(A4G) SOT23	2	Q2, 7
65	Transistor	HMBT1815(C4G) SOT23	1	Q8
66	(FET) Transistor	2SK3078A SOT89	1	Q6
67	Diode	ISS381 ESC	3	D1, 2, 4
68	Vary Cap Diode	1SV214 USC	2	D3, 7
69	Diode	LL4148 (SMD) SOD-80	1	D13
70	Filter	SAW 465MHz	1	F1
71	Filter	XTAL 21.4MHZ	1	F2
72	Filter	450KHZ CERAMIC, 6dB BW±4.5 LTM450G	1	F3
73	Chip Cap.	1NF 50V ±10% 0603	13	C1, 4, 7, 13, 14, 23, 34, 42, 48, 51, 57, 61, 62
74	Chip Cap.	6PF 50V ±5% 0603	2	C2, 10
75	Chip Cap.	4PF 50V ±5% 0603	1	C3
76	Chip Cap.	9PF 50V ±5% 0603	1	C5
77	Chip Cap.	8PF 50V ±5% 0603	1	C6
78	Chip Cap.	10PF 50V ±5% 0603	2	C8, 60
79	Chip Cap.	3PF 50V ±5% 0402	1	C55
80	Chip Cap.	100NF 50V ±20% 0603	9	C11, 16, 17, 19, 20, 21, 28, 64, 134
81	Chip Cap.	22PF 50V ±5% 0603	3	C12, 36, 40
82	Chip Cap.	220PF 50V ±5% 0603	4	C67, 70, 71, 72
83	Chip Cap.	560PF 50V ±5% 0603	1	C15
84	Chip Cap.	47NF 50V ±20% 0603	1	C30
85	Chip Cap.	180PF 50V ±20% 0603	1	C22
86	Chip Cap.	1UF 50V ±20% 0603	2	C24, 35
87	Chip Cap.	39PF 50V ±20% 0603	2	C26, 27
88	Chip Cap.	56PF 50V ±20% 0603	1	C25
89	Chip Cap.	10NF 50V ±20% 0603	4	C29, 63, 132, 245
90	Chip Cap.	1.5PF 50V ±5% 0603	1	C33
91	Chip Cap.	4.7UF 10V ±20% 0805	1	C56
92	Chip Cap.	2.2PF 50V ±5% 0603	1	C37
93	Chip Cap.	2PF 50V ±5% 0603	1	C38
94	Chip Cap.	7PF 50V ±5% 0603	3	C39, 44, 50
95	Chip Cap.	33PF 50V ±5% 0603	2	C32, 41
96	Chip Cap.	1PF 50V ±5% 0603	1	C46
97	Chip Cap.	5PF 50V ±5% 0603	2	C9, 52
98	Chip Cap.	20PF 50V ±5% 0603	2	C58, 59
99	Chip Cap.	2.2NF 50V ±20% 0603	1	C135
100	Chip Cap.	10UF 10V ±20% 0603	1	C43
101	Chip Resistor	10KΩ ±5% 1/10W 0603	4	R1, 9, 26, 33
102	Chip Resistor	100Ω ±5% 1/10W 0603	3	R2, 20, 21
103	Chip Resistor	47KΩ ±5% 1/10W 0603	3	R3, 32, 136
104	Chip Resistor	3.3KΩ ±5% 1/10W 0603	6	R4, 5, 6, 18, 31, 129
105	Chip Resistor	330KΩ ±5% 1/10W 0603	1	R138
106	Chip Resistor	470KΩ ±5% 1/10W 0603	1	R7
107	Chip Resistor	22KΩ ±5% 1/10W 0603	4	R10, 12, 17, 19
108	Chip Resistor	100KΩ ±5% 1/10W 0603	1	R13
109	Chip Resistor	15Ω ±5% 1/10W 0603	2	R14, 27
110	Chip Resistor	1KΩ ±5% 1/10W 0603	4	R15, 16, 22, 23
111	Chip Resistor	330Ω ±5% 1/10W 0603	1	R24
112	Chip Resistor	6.2KΩ ±5% 1/10W 0603	1	R28
113	Chip Resistor	510Ω ±5% 1/10W 0603	2	R8, 30
114	Chip Resistor	8.2KΩ ±5% 1/10W 0603	1	R11

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115	Chip Resistor	1.8K Ω $\pm$ 5% 1/10W 0603	1	R135
116	Chip Resistor	33K Ω $\pm$ 5% 1/10W 0603	1	R137
117	Coil	Aircoil, WDia.=0.55mm, IDia.=1.5mm, CCW, 4T	2	L1, 9
118	Coil	Aircoil, WDia.=0.4mm, IDia.=1.5mm, CCW, 5T	1	L5
119	Coil	Aircoil, WDia.=0.55mm, IDia.=1.5mm, CW, 4T	2	L8, 10
120	Chip Inductor	27nH $\pm$ 5% 0603	2	L2, 4
121	Chip Inductor	2.2uH $\pm$ 10% 1210	1	L3
122	Chip Inductor	22nH $\pm$ 5% 0603	1	L6
123	Chip Inductor	18nH $\pm$ 5% 0603	1	L12
124	Chip Inductor	15nH $\pm$ 5% 0603	1	L7
125	Chip Inductor	100nH $\pm$ 5% 0603	1	L11
126	Crystal Oscillator	20.95MHz UM-1 temp. $\pm$ 5ppm	1	X1
127	Trimmer Cap.	20PF $\pm$ 50% -0%	1	VC1
128	Transformer	IF Transformer 450KHz	1	IFT1
		MCU PCB		
129	PCB	MCU PCB (62x43x 1)mm double side	1	
130	MCU Dies	KS57C2302 masked MCU dies	1	IC4
131	Chip Cap.	39PF 50V $\pm$ 5% NPO 0603	2	C27, 28
132	Chip Resistor	47K Ω $\pm$ 5% 1/10W 0603	4	R140, 141, 142, 143
133	Chip Resistor	100 Ω $\pm$ 5% 1/10W 0603	1	R27
134	Chip Resistor	270 Ω $\pm$ 5% 1/10W 0603	1	R33
135	Chip Resistor	0 Ω $\pm$ 5% 1/10W 0603	1	R32
136	Chip Resistor	22nF 25V+80-20% 0603	1	C29
137	Ceramic Resonator	3.58MHz $\pm$ 3%	1	X1
138	LED	L- 934GC GREEN 3MM	1	D4
139	LED	L- 934ID RED 3MM	1	D9