

Quantun Electronics, LLC						
				Format:ST-RD-003		
QP-650V1 (136-174MHz) BOM			ECO:		Ver : 01	
			NAME: QP-650V Unit BOM		NO:	
No:	P/N	Description	Specification	Ref.No.	Qty.	Note
1	1101040000	贴片电阻 0402 0Ω J 1/16W	RTT02000JTH	R100	10	
				R117		
				R244		
				R308		
				R317		
				R540		
				R700		
				R712		
				C222		
				C412		
2	1101042790	贴片电阻 0402 2.7Ω J 1/16W	RTT022R7JTH	R521	1	
3	1101044790	贴片电阻 0402 4.7Ω J 1/16W	RTT024R7JTH	R249	2	
				R255		
4	1101041000	贴片电阻 0402 10Ω J 1/16W	RTT02100JTH	R116	6	
				R241		
				R243		
				R247		
				R248		
				R323		
5	1101041800	贴片电阻 0402 18Ω J 1/16W	RTT02180JTH	R408	1	
6	1101042200	贴片电阻 0402 22Ω J 1/16W	RTT02220JTH	R401	2	
				R406		
7	1101044700	贴片电阻 0402 47Ω J 1/16W	RTT02470JTH	R410	2	
				R415		
8	1101041010	贴片电阻 0402 100Ω J 1/16W	RTT02101JTH	R108	9	
				R110		
				R202		
				R309		
				R510		
				R653		
				R654		
				R697		
				R698		
9	1101041510	贴片电阻 0402 150Ω J 1/16W	RTT02151FTH	R303	2	

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				R516		
10	1101042210	贴片电阻 0402 220Ω J 1/16W	RTT02221JTH	R518	1	
11	1101042710	贴片电阻 0402 270Ω J 1/16W	RTT02271JTH	R114	1	
12	1101043310	贴片电阻 0402 330Ω J 1/16W	RTT02331JTH	R206	5	
				R403		
				R407		
				R656		
				R689		
13	1101043910	贴片电阻 0402 390Ω J 1/16W	RTT02391JTH	R105	2	
				R106		
14	1101045110	贴片电阻 0402 510Ω J 1/16W	RTT02511JTH	R503	2	
				R517		
15	1101046810	贴片电阻 0402 680Ω J 1/16W	RTT02681JTH	R405	1	
16	1101041020	贴片电阻 0402 1KΩ J 1/16W	RTT02102JTH	R246	19	
				R250		
				R282		
				R310		
				R325		
				R326		
				R327		
				R636		
				R637		
				R650		
				R657		
				R672		
				R673		
				R674		
				R675		
				R676		
				R692		
				R694		
				R699		
17	1101011220	贴片电阻 0402 1.2KΩ J 1/16W	RTT02122JTH	R101	1	
18	1101041520	贴片电阻 0402 1.5KΩ J 1/16W	RTT02152JTH	R102	1	

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19	1101042220	贴片电阻 0402 2.2KΩ J 1/16W	RTT02222JTH	R201	6	
				R204		
				R235		
				R283		
				R438		
				R506		
20	1101042720	贴片电阻 0402 2.7KΩ J 1/16W	RTT02272JTH	R520	1	
21	1101043320	贴片电阻 0402 3.3KΩ J 1/16W	RTT02332TH	R111	6	
				R113		
				R115		
				R230		
				R236		
				R263		
22	1101043920	贴片电阻 0402 3.9KΩ J 1/16W	RTT02392TH	R404	2	
				R515		
23	1101044720	贴片电阻 0402 4.7KΩ J 1/16W	RTT02472JTH	R231	10	
				R242		
				R312		
				R441		
				R442		
				R642		
				R691		
				R693		
				R702		
				R630		
24	1101045620	贴片电阻 0402 5.6KΩ J 1/16W	RTT02562JTH	R112	1	
25	1101046820	贴片电阻 0402 6.8KΩ J 1/16W	RTT02682JTH	R284	2	
				R505		
26	1101048220	贴片电阻 0402 8.2KΩ J 1/16W	RTT02822JTH	R234	1	
27	1101041030	贴片电阻 0402 10KΩ J 1/16W	RTT02103JTH	R104	19	
				R212		
				R213		
				R256		
				R261		

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				R318		
				R400		
				R436		
				R439		
				R530		
				R643		
				R644		
				R703		
				R705		
				R710		
				R711		
				R328		
				R329		
				R330		
28	1101041230	贴片电阻 0402 12KΩ J 1/16W	RTT02123JTH	R222	3	
				R319		
				R504		
29	1101041530	贴片电阻 0402 15KΩ J 1/16W	RTT02153JTH	R210	2	
				R416		
30	1101041830	贴片电阻 0402 18KΩ J 1/16W	RTT02183JTH	R224	4	
				R233		
				R239		
				R288		
31	1101042230	贴片电阻 0402 22KΩ J 1/16W	RTT02223JTH	R214	3	
				R221		
				R412		
32	1101042730	贴片电阻 0402 27KΩ J 1/16W	RTT02273JTH	R216	1	
33	1101043030	贴片电阻 0402 30KΩ J 1/16W	RTT02303JTH	R218	1	
34	1101043330	贴片电阻 0402 33KΩ J 1/16W	RTT02333JTH	R417	1	
35	1101043630	贴片电阻 0402 36KΩ J 1/16W	RTT02363JTH	R226	1	
36	1101044730	贴片电阻 0402 47KΩ J 1/16W	RTT02473JTH	R237	13	
				R245		
				R267		
				R304		

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				R305		
				R307		
				R316		
				R402		
				R411		
				R695		
				R696,		
				R704		
				C317	1	
37	1101045630	贴片电阻 0402 56KΩ J 1/16W	RTT02563JTH	R219	1	
38	1101045680	贴片电阻 0402 68KΩ J 1/17W		R103	1	
39	1101048230	贴片电阻 0402 82KΩ J 1/16W	RTT02823JTH	R264	1	
40	1101049130	贴片电阻 0402 91KΩ F 1/16W	RTT02913FTH	R440	1	
41	1101041040	贴片电阻 0402 100KΩ J 1/16W	RTT02104JTH	R207	22	
				R208		
				R260		
				R262		
				R266		
				R311		
				R320		
				R321		
				R322		
				R500		
				R501		
				R502		
				R507		
				R508		
				R509		
				R511		
				R512		
				R513		
				R514		
				R652		
				R662		

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				R665		
42	1101041240	贴片电阻 0402 120KΩ J 1/16W	RTT02124JTH	R229	1	
43	1101041540	贴片电阻 0402 150KΩ F 1/16W	RTT02154FTH	R225	8	
				R306		
				R430		
				R431		
				R432		
				R433		
				R434		
				R435		
44	1101041840	贴片电阻 0402 180KΩ J 1/16W	RTT02184FTH	R107	2	
				R238		
45	1101042240	贴片电阻 0402 220KΩ J 1/16W	RTT02224JTH	R109	2	
				R631		
46	1101043940	贴片电阻 0402 390KΩ J 1/16W	RTT02394JTH	R217	4	
				R223		
				R227		
				R632		
47	1101045640	贴片电阻 0402 560KΩ J 1/16W	RTT02564JTH	R211	1	
48	1101046840	贴片电阻 0402 680KΩ J 1/16W	RTT02684JTH	R519	1	
49	1101048240	贴片电阻 0402 820KΩ J 1/16W	RTT02824JTH	R232	2	
				R240		
50	1101041050	贴片电阻 0402 1MΩ J 1/16W	RTT02105JTH	R437	1	
51	1101041850	贴片电阻 0402 1.8MΩ J 1/16W	RTT02185JTH	R228	1	
52	1101062710	贴片电阻 0603 270Ω J 1/10W	RTT03271JTH	R419	1	
53	1101061050	贴片电阻 0603 1MΩ J 1/16W	RTT03105JTH	R671	1	
54	1161041020	电阻排 0402 1K*4 J 1/16		RN4	3	
				RN5		
				RN6		
55	1101120590	贴片电阻 1206 0.5Ω J 1/4W	RTT060R5JTH	R420	3	
				R421		
				R422		
56	1401996830	可调电阻(2*2) 68KΩ(+25%)	MVR22HXB RN683	VR200	4	
				VR260		

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				VR300		
				VR602		
57	1501040590	贴片电容 0402 0.5PF B 50V	GRM1555C1HR50B	C112	1	
58	1501041590	贴片电容 0402 1.5PF B 50V	GRM1555C1H1R5B	C543	1	
59	1501040400	贴片电容 0402 4PF B 50V	GRM1555C1H4R0B	C122	2	
				C544		
60	1501040500	贴片电容 0402 5PF B 50V	GRM1555C1H5R0B	C123	4	
				C533		
				C535		
				C541		
61	1501045690	贴片电容 0402 5.6P B 50V	GRM1555C1H5R6B	C561	1	
62	1501040600	贴片电容 0402 6PF B 50V	GRM1555C1H6R0B	C454	1	
63	1501040700	贴片电容 0402 7PF B 50V	GRM1555C1H7R0B	C448	1	
64	1501040800	贴片电容 0402 8PF B 50V	GRM1555C1H8R0B	C113	3	
				C456		
				C505		
65	1501040900	贴片电容 0402 9PF B 50V	GRM1555C1H9R0B	C560	1	
66	1501041000	贴片电容 0402 10PF J 50V	GRM1555C1H100J	C132	9	
				C137		
				C141		
				C321		
				C322		
				C345		
				C446		
				C452		
				C521		
67	1501041200	贴片电容 0402 12PF J 50V	GRM1555C1H120J	C121	3	
				C451		
				C457		
67	1501041500	贴片电容 0402 15PF J 50V	GRM1555C1H150J	C133	8	
				C135		
				C413		
				C502		
				C532		

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				C534		
				C634		
				C638		
68	1501041800	贴片电容 0402 18PF J 50V	GRM1555C1H180J	C111	7	
				C114		
				C421		
				C445		
				C504		
				C522		
				C526		
69	1501042200	贴片电容 0402 22PF J 50V	GRM1555C1H220J	C136	4	
				C138		
				C411		
				C455		
70	1501042700	贴片电容 0402 27PF J 50V	GRM1555C1H270J	C453	4	
				C500		
				C523		
				C524		
71	1501043000	贴片电容 0402 30PF J 50V	GRM1555C1H300J	C120	2	
				C519		
72	1501043300	贴片电容 0402 33PF J 50V	GRM1555C1H330J	C130	4	
				C245		
				C447		
				C507		
73	1501043900	贴片电容 0402 39PF J 50V	GRM1555C1H390J	C501	1	
74	1501044700	贴片电容 0402 47PF J 50V	GRM1555C1H470J	C443	1	
75	1501045600	贴片电容 0402 56PF J 50V	GRM1555C1H560J	C110	4	
				C339		
				C343		
				C513		
76	1501046800	贴片电容 0402 68PF J 50V	GRM1555C1H680J	C219	6	
				C220		
				C221		
				C340		



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				C444		
				C103		
77	1501041010	贴片电容 0402 100PF J 50V	GRM1555C1H101J	C107	15	
				C266		
				C280		
				C289		
				C296		
				C303		
				C304		
				C305		
				C334		
				C346		
				C429		
				C503		
				C506		
				C518		
				C520		
78	1501041510	贴片电容 0402 150PF J 50V	GRM1555C1H151J	C213	3	
				C402		
				C508		
79	1501042210	贴片电容 0402 220PF J 50V	GRM1555C1H221J	C260	1	
80	1501043910	贴片电容 0402 390PF J 50V	GRM1555C1H391J	C228	2	
				C234		
81	1501044710	贴片电容 0402 470PF J 50V	GRM1555C1H471J	C134	30	
				C142		
				C201		
				C335		
				C337		
				C342		
				C347		
				C401		
				C410		
				C417		
				C430		

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No:	P/N	Description	Specification	Ref.No.	Qty.	Note
				C432		
				C435		
				C436		
				C437		
				C442		
				C512		
				C530		
				C536		
				C538		
				C539		
				C548		
				C635		
				C636		
				C654		
				C671		
				C675		
				R413		
				C630		
				C631		
82	1501048210	贴片电容 0402 820PF J 50V	GRM1555C1H821J	C206	1	
83	1501041020	贴片电容 0402 1000PF K 50V	GRM155R71H102K	C106	32	
				C131		
				C139		
				C140		
				C204		
				C250		
				C254		
				C265		
				C320		
				C323		
				C336		
				C341		
				C400		
				C403		

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No:	P/N	Description	Specification	Ref.No.	Qty.	Note
				C404		
				C405		
				C408		
				C414		
				C439		
				C450		
				C458		
				C509		
				C514		
				C531		
				C641		
				C644		
				C666		
				C667		
				C672		
				C674		
				C677		
				C694		
84	1501041520	贴片电容 0402 1500PF K 50V	GRM1555C1H152K	C224	2	
				C233		
85	1501041820	贴片电容 0402 1800PF K 50V	GRM1555C1H182K	C235	1	
86	1501042220	贴片电容 0402 2200pF K 50V	GRM155R71H222K	C243	2	
				C258		
87	1501044720	贴片电容 0402 4700PF K 50V	GRM155R71H472K	C683	2	
				C685		
88	1501045620	贴片电容 0402 5600PF K 25V	GRM155R71E562K	C244	2	
				C261		
89	1501046820	贴片电容 0402 6800PF K 25V	GRM155R71E682K	C239	1	
90	1501041030	贴片电容 0402 0.01UF K 25V	GRM155R71E103K	C105	22	
				C237		
				C259		
				C291		
				C300		
				C311		

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				C416		
				C419		
				C517		
				C527		
				C528		
				C529		
				C540		
				C542		
				C546		
				C547		
				C670		
				C682		
				C686		
				C688		
				C689		
				C690		
91	1501041230	贴片电容 0402 0.012UF K 25V	GRM155R71E123K	C238	1	
92	1501041830	贴片电容 0402 0.018UF K 25V	GRM155R71E183K	C207	1	
93	1501042230	贴片电容 0402 0.022UF K 25V	GRM155R71E223K	C215	4	
				C673		
				C680		
				C681		
94	1501044730	贴片电容 0402 0.047UF K 25V	GRM155R71E473K	C223	4	
				C225		
				C232		
				R220		
95	1501045630	贴片电容 0402 0.056UF K 25V	GRM155R71E563K	C236	1	
96	1501046830	贴片电容 0402 0.068UF K 25V	GRM155R71E683K	C227	1	
97	1501041040	贴片电容 0402 0.1UF K 16V	GRM155R71C104K	C118	37	
				C127		
				C143		
				C205		
				C217		
				C231		

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				C240		
				C249		
				C253		
				C255		
				C256		
				C257		
				C267		
				C272		
				C290		
				C315		
				C324		
				C325		
				C326		
				C329		
				C330		
				C331		
				C332		
				C333		
				C415		
				C418		
				C420		
				C433		
				C510		
				C511		
				C537		
				C549		
				C637		
				C642		
				C650		
				C655		
				C684		
98	1501042240	贴片电容 0402 0.22UF Z 25V	GRM155R71E224Z	C203	1	
99	1501044740	贴片电容 0402 0.47UF Z 25V	GRM155R71E474Z	C202	1	
100	1501041050	贴片电容 0402 1UF K 6.3V	GRM155R60J105K	C216	17	

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				C218		
				C226		
				C230		
				C241		
				C242		
				C246		
				C247		
				C301		
				C306		
				C307		
				C308		
				C309		
				C310		
				C318		
				C440		
				C441		
101	1501060590	贴片电容 0603 0.5PF B 50V	GRM1885C1HR50C	C116	2	
				C125		
102	1501061040	贴片电容 0603 0.1UF K 50V	GRM188R71H104K	C100	3	
				C117		
				C126		
103	1701081050	钽电容 0805 1UF M 16V		C101	2	
				C264		
104	1701082250	钽电容 0805 2.2UF M 10V		C302,	1	
105	1701084750	钽电容 0805 4.7UF M 10V		C200	9	
				C262		
				C314		
				C316		
				C434		
				C665		
				C668		
				C664		
				C669		
106	1701081060	钽电容 0805 10UF M 6.3V		C229	8	

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QP-650V1 (136-174MHz) BOM			ECO:		Ver : 01	
			NAME: QP-650V Unit BOM		NO:	
No:	P/N	Description	Specification	Ref.No.	Qty.	Note
				C252,		
				C312		
				C313,		
				C431		
				C652		
				C695		
				C632		
107	1701121060	钽电容 1206 0.1UF M 16V		C102	1	
108	1501122260	贴片电容1206 22uF +80%/-20%		C251	1	
109	1601991000	可调电容 3.2*2.5*1.25mm	TZY2Z100A001	TC100,	2	
				TC101		
110	2001041830	叠片电感 0402 18nH	LQG15HS18NS02	L116	1	
111	2001042730	叠片电感 0402 27nH	LQG15HS27NS02	L112	3	
				L113		
				L412		
112	2001043930	叠片电感 0402 39nH	LQG15HS39NS02	L530,	2	
				L532		
113	2001044730	叠片电感 0402 47nH	LQG15HS47NS02	L405	1	
114	2001048230	叠片电感 0402 82nH	LQG15HS82NS02	L114	3	
				L400		
				L401		
115	2001041040	叠片电感 0402 100nH	LQG15HSR10S02	L111	3	
				L115		
				L533		
116	2201042210	片状铁氧体磁珠 0402 220Ω	BLM15AG221SN1	L100	9	
				L200		
				L201		
				L202		
				L203		
				L402		
				L650		
				L651		
				L652		
117	2101061510	骨架电感 0603 15nH	C1608C-15NJ	L505	2	

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No:	P/N	Description	Specification	Ref.No.	Qty.	Note
				L531		
118	2001061040	叠片电感 0603 100nH	LQM18NNR10K00	L509	1	
119	2001063340	叠片电感 0603 330nH	LQM18NNR33K00	L303	2	
				L306		
120	2001065640	叠片电感 0603 560nH	LQM18NNR56K10	L304	2	
				L510		
121	2001061550	叠片电感 0603 1uH	MLF1608A1R0K	L301	2	
				L307		
122	2001063350	叠片电感 0603 3.3uH	MLF1608A3R3KT	L109	3	
				L110		
				L305		
123	2001066850	叠片电感 0603 6.8uH	MLF1608A6R8KT	L101	6	
				L102		
				L103		
				L105		
				L106		
				L108		
124	2101082730	骨架电感 0805 27nH	C2012C-27NJ	L107	1	
125	2101083330	骨架电感 0805 39nH	C2012C-39NJ	L104	1	
126	2101081840	骨架电感 0805 180nH	C2012C-R18J	L504	1	
127	2201086000	片状铁氧体磁珠 0805 60Ω±25%	BLM21PG600SN1	L404,	2	
				L407		
128	2001101050	叠片电感 1008 1uH	NLV25T1R0JPF	L403	1	
129	2001102250	叠片电感 1008 2.2uH		L408	1	
130	2101131050	叠片电感 1210 1uH	LQH32MN1R0M23	L454	1	
131	2301320030	空心电感 E2-0.30*1.0*3TL		L409,	1	
132	2301360030	空心电感 E2-0.35*1.6*3TR		L411	1	
133	2301360040	空心电感 E2-0.35*1.6*4TL		L410	1	
134	2301320050	空心电感 E2-0.30*1.2*5TL		L501	4	
				L502		
				L506		
				L507		
135	2301360060	空心电感 E2-0.35*1.6*6TR		L450	2	
				L452		



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136	2301360070	空心电感 E2-0.35*1.6*7TR		L451	1	
137	2301360080	空心电感 E2-0.35*1.6*8TR		L406	2	
				L500		
138	CF21990030	陶瓷滤波器 450KHz±6KHz	CFWKA450KFFA-R0	CF300	1	
139	CF21990020	陶瓷滤波器 450KHz±4KH	CDBKB450KCAY24-R0	U614	1	
140	C110128900	压控温补晶体	12.8MHz	X300	1	
141	C111966000	晶体	19.6608MHz	X602	1	
142	CF01990020	晶体滤波器	38.850MHz	XF1	1	
143	D201050030	变容二极管	HVC376BTRF-E R	D100	6	
				D101		
				D104		
				D105		
				D106		
				D107		
144	D201050020	变容二极管	HVC350BTRF-E	D102	3	
				D103		
				D504		
145	D201050060	变容二极管	HVC362TRF-E	D503	3	
				D506		
				D507		
146	D201020020	变容二极管	BB179	D108	1	
147	D101030020	开关二极管	MA2S07700L	D400	4	
				D500		
				D501		
				D502		
148	D101030040	开关二极管	HVU131	D401	1	
		开关二极管	MA2S11100L	D603	1	
149	D401050010	二极管	HSM88ASTL-E	D508	1	
150	D501090010	发光二极管	KPT-1608SGC	D601	1	
151	D501090020	发光二极管	KPT-1608SRC-PRV	D602	1	
152	F101010010	三极管	2SK508-K52-T1B-A	Q100	2	
				Q101		
153	T101020010	三极管	2SC5108-Y	Q102	6	
				Q103		

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No:	P/N	Description	Specification	Ref.No.	Qty.	Note
				Q104		
				Q105		
				Q400		
				Q502		
154	T101040050	三极管	DTC114EE(TL)	Q204	4	
				Q430		
				Q614		
				Q615		
155	T101040010	三极管	DTA114EE(TL)	Q300	1	
156	T101040020	三极管	DTA144EE	Q431	1	
		三极管	2SC4738GR	Q613	1	
157	T101050010	三极管	2SC4988FRTR-E	Q401	1	
158	T101130010	三极管	UFMMT717 PNP	Q205	1	
159	T101100010	三极管	AT-41511-TR1G	Q500	1	
160	T101040070	三极管	UMC4(NTR)	Q652	1	
161	T101040060	三极管	UMT1	U612	1	
162	F101010020	场效应管	2SK1824-T1-A	Q203	3	
				Q206		
				Q654		
163	F101030010	场效应管	RD01	Q402	1	
164	F101030020	场效应管	RQA0002	Q403	1	
165	F101050010	场效应管	3SK318YB-TL-E-Q	Q501	1	
166	F101010030	场效应管	2SJ243-T1-A	Q653	1	
167	3141170020	RF/IF解调芯片	AN29160AA	U200	1	
168	3031120010	运算放大器	1.7V TDA2822	U201	1	
169	3061130010	运算放大器	NJM2904V	U430	1	
170	3081110010	稳压器三极管	XC6201P502PR	U607	1	
171	3081110020	稳压器三极管	XC6201P302PR	U608	1	
172	3071080020	存储器	AT24C08	U609	1	
173	3051150020	锁相环	MB15E03SL	U610	1	
174	3011090030	单片机	R8C	U611	1	
175	1301040180	压敏电阻	AVLC18S02015	ZD208	4	
				ZD209		
				ZD275		

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No:	P/N	Description	Specification	Ref.No.	Qty.	Note
				ZD276		
176	P10012V030	PCB板	QP650V PCB板		1	