



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4G WiFi/5G WiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	36%@2.4G; 33%@5G
Peak Gain	1.3dBi@2.4G; 2.7dBi@5G

1.2 Physical Properties

Characteristics	Specifications
Operating Temp	-10°C~+60°C
Storage Temp	-10°C~+70°C
Humidity	10~95%RH

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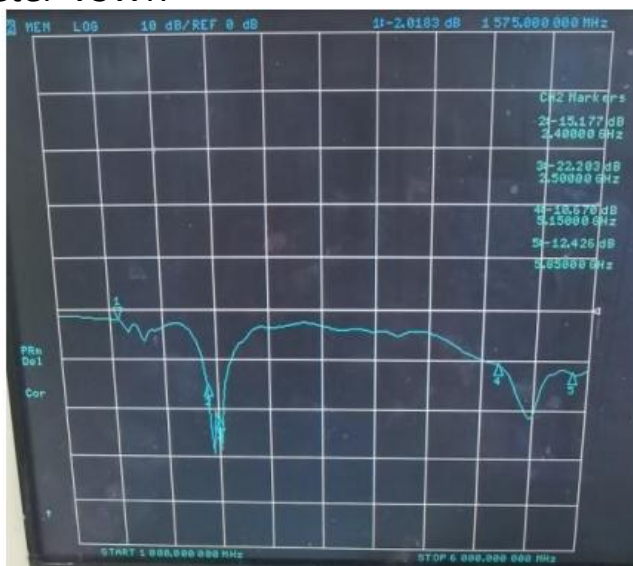
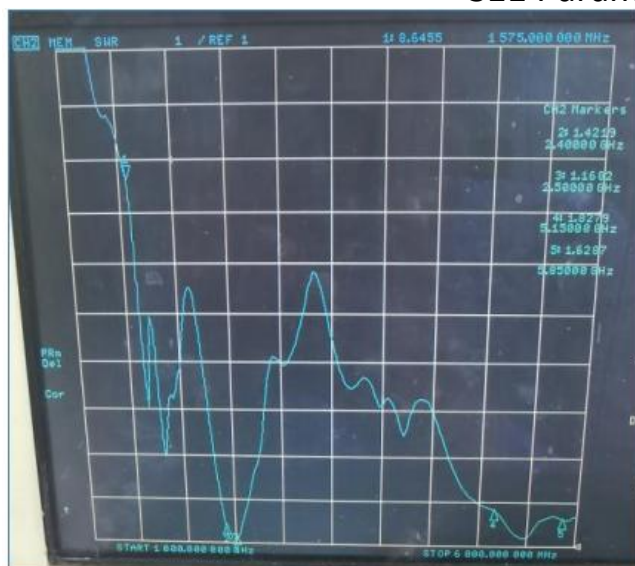
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Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.42	1.16	1.82	1.62
Return Loss (DB)	-15.17	-22.20	-10.67	-12.42

WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	12.77	CH1 11Mbps	-83.61
	2437	CH6 11Mbps	12.21	CH6 11Mbps	-83.12
	2467	CH11 11Mbps	12.14	CH11 11Mbps	-82.03
802.11a		TRP		TIS	
	5180	CH36 6Mbps	11.17	CH36 54Mbps	-74.10
	5300	CH60 6Mbps	11.81	CH60 54Mbps	-72.89
	5805	CH161 6Mbps	12.28	CH161 54Mbps	-73.0

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Efficiency Table

Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	36.24	-4.41	1.35	-0.8	16.502	19.742	1.35	-20.47	5.76	60	52.44	52.61
2410	31.86	-4.97	0.51	-1.64	14.58	17.28	0.51	-18.59	5.48	60	52.37	52.53
2420	32.71	-4.85	0.31	-1.84	15.063	17.648	0.31	-19.26	5.16	60	52.38	52.56
2430	31.99	-4.95	-0.27	-2.42	14.814	17.176	-0.27	-17.9	4.68	60	52.56	52.67
2440	32.43	-4.89	0.05	-2.1	15.053	17.382	0.05	-17.22	4.94	90	52.86	53.02
2450	31.33	-5.04	0.14	-2.01	14.535	16.799	0.14	-18.11	5.18	90	52.73	52.84
2460	29.59	-5.29	0.04	-2.11	13.715	15.878	0.04	-19.27	5.33	90	52.67	52.76
2470	29.59	-5.29	0.35	-1.8	13.806	15.779	0.35	-19.19	5.64	90	52.57	52.66
2480	31.74	-4.98	0.54	-1.61	14.832	16.903	0.54	-18.09	5.52	90	52.78	52.88
2490	34.72	-4.59	0.91	-1.24	16.304	18.413	0.91	-19.59	5.5	90	53.06	53.25
2500	35.03	-4.56	0.57	-1.58	16.527	18.504	0.57	-21.41	5.13	90	52.92	53.06
Passive Test For 5G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	26.98	-5.69	0.38	-1.77	16.201	10.78	0.38	-20.42	6.07	15	62.66	62.14
5170	24.76	-6.06	0.16	-1.99	15.063	9.695	0.16	-19.83	6.22	30	62.13	61.73
5190	21.43	-6.69	-0.1	-2.25	13.247	8.182	-0.1	-23.49	6.59	30	61.9	61.56
5210	25.12	-6	1.03	-1.12	15.623	9.498	1.03	-21.18	7.03	30	62.58	62.08
5230	24.83	-6.05	1.28	-0.87	15.484	9.343	1.28	-25.83	7.34	30	62	61.81
5250	24.69	-6.07	1.62	-0.53	15.463	9.231	1.62	-30.22	7.69	30	61.89	61.7
5270	23.84	-6.23	1.72	-0.43	14.911	8.927	1.72	-21.59	7.95	30	61.76	61.41
5290	25.22	-5.98	2.1	-0.05	15.824	9.394	2.1	-22.46	8.08	30	61.94	61.89
5310	21.9	-6.6	1.38	-0.77	13.763	8.136	1.38	-21.85	7.98	30	61.61	61.56
5330	22.08	-6.56	1.33	-0.82	13.938	8.141	1.33	-26.65	7.89	30	61.83	61.76
5350	22.16	-6.55	1.11	-1.04	14.121	8.035	1.11	-23.16	7.66	30	62.08	62.46
5370	24.2	-6.16	1.35	-0.8	15.51	8.687	1.35	-22.99	7.51	30	62.14	62.36
5390	22.26	-6.52	1.14	-1.01	14.354	7.907	1.14	-24.75	7.67	30	61.64	61.88
5410	27.24	-5.65	1.92	-0.23	17.735	9.503	1.92	-18.63	7.57	30	62.69	63.01
5430	28.76	-5.41	2.15	0	18.843	9.914	2.15	-19.98	7.56	30	62.41	62.93
5450	29.21	-5.34	2.28	0.13	19.279	9.936	2.28	-20.26	7.62	15	62.21	62.94
5470	29.09	-5.36	2.27	0.12	19.388	9.701	2.27	-23.62	7.63	15	62.56	63.24
5490	28.92	-5.39	2.1	-0.05	19.368	9.552	2.1	-22.04	7.49	0	63.06	63.84
5510	28.07	-5.52	1.94	-0.21	18.875	9.195	1.94	-20.82	7.45	15	63.46	64.44
5530	31.13	-5.07	2.01	-0.14	20.909	10.219	2.01	-26.07	7.08	15	63.75	64.89
5550	32	-4.95	2.45	0.3	21.487	10.51	2.45	-24.1	7.4	15	64.34	65.2
5570	31.87	-4.97	2.75	0.6	21.17	10.697	2.75	-18.73	7.72	15	64.38	65.25
5590	30.96	-5.09	2.45	0.3	20.457	10.5	2.45	-20.56	7.54	15	64.47	64.74
5610	31.15	-5.07	2.76	0.61	20.416	10.732	2.76	-21.46	7.82	15	64.28	65.11
5630	33.31	-4.77	2.9	0.75	21.468	11.846	2.9	-22.49	7.67	15	64.52	65.32
5650	32.96	-4.82	2.69	0.54	20.903	12.06	2.69	-18.67	7.51	15	64.43	65.08
5670	30.9	-5.1	2.36	0.21	19.299	11.598	2.36	-20.87	7.47	15	64.58	65.06
5690	33.2	-4.79	2.59	0.44	20.651	12.548	2.59	-17.64	7.38	30	64.65	66
5710	30.25	-5.19	2.54	0.39	18.844	11.408	2.54	-16.85	7.74	30	65.18	65.08
5730	34.11	-4.67	2.74	0.59	20.844	13.264	2.74	-17.91	7.41	30	64.91	65.55
5750	29.49	-5.3	1.98	-0.17	18.204	11.283	1.98	-21.04	7.28	30	64.64	64.89
5770	29.67	-5.28	1.95	-0.2	18.348	11.32	1.95	-23.63	7.23	30	64.61	65.28
5790	28.66	-5.43	2.08	-0.07	17.763	10.894	2.08	-22.59	7.51	30	64.83	64.78
5810	31.19	-5.06	2.46	0.31	19.207	11.979	2.46	-22.06	7.53	0	64.97	65.66
5830	30.56	-5.15	2.49	0.34	18.866	11.694	2.49	-21.33	7.64	0	65.45	66.02
5850	31.94	-4.96	2.76	0.61	19.486	12.452	2.76	-22.55	7.72	30	65.65	66.39

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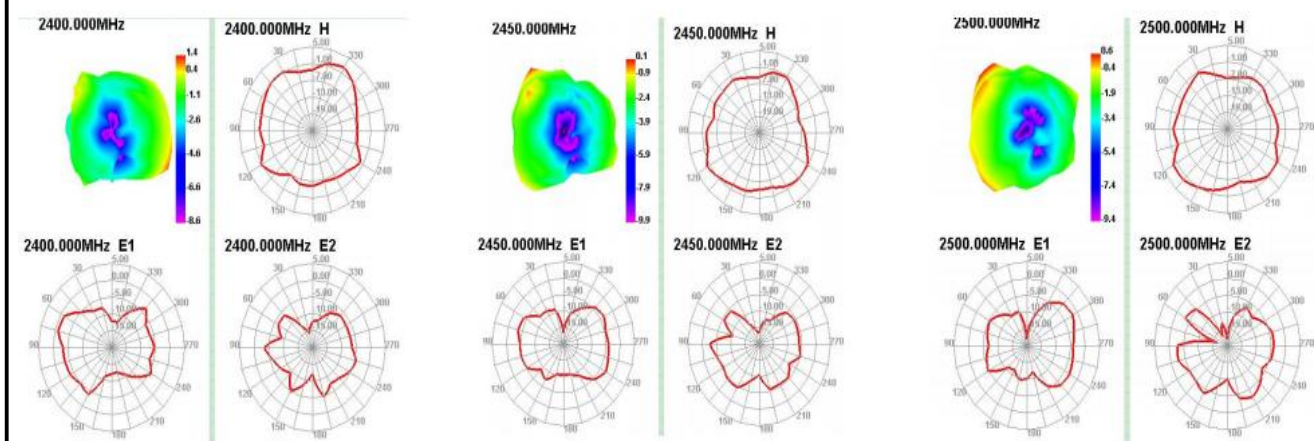
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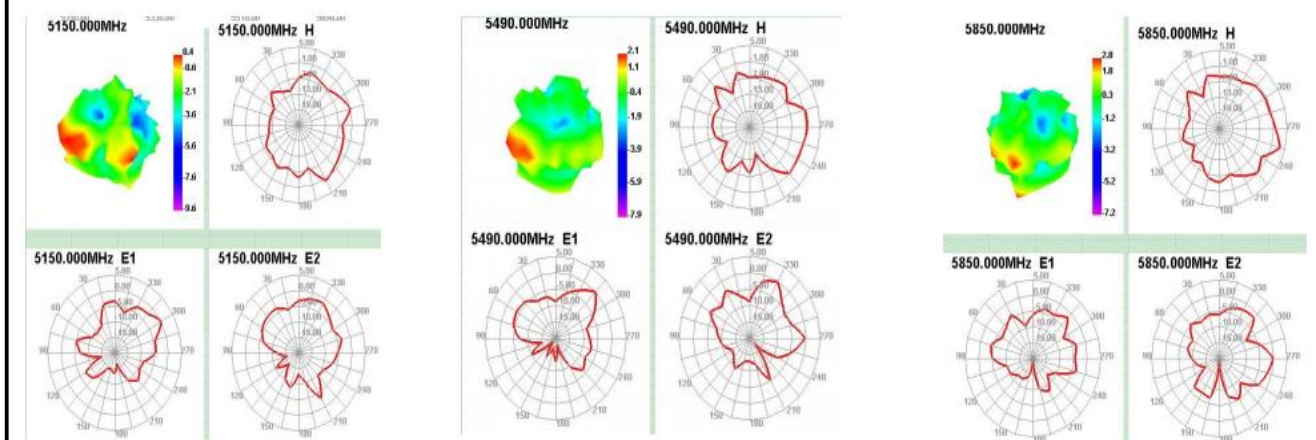
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Radiation Pattern (2.4G)



Radiation Pattern (5G)



BT Test

测试环境：开放空间（通道）

Testing environment: Open space (passageway)

测试工具：蓝牙音响

Testing tool: Bluetooth speaker

测试距离：10+m

Testing distance: More than 10 meters

结果：播放音乐流畅，无杂音

Result: The music plays smoothly without any noise

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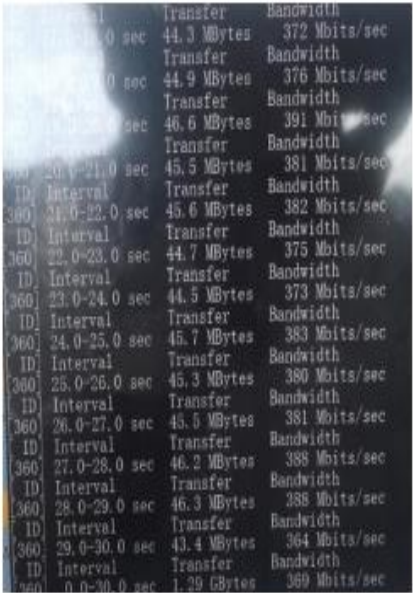
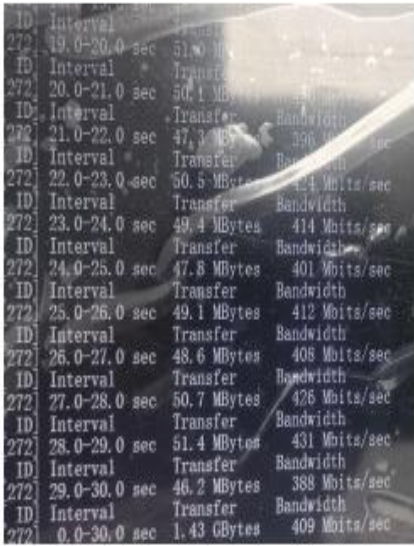
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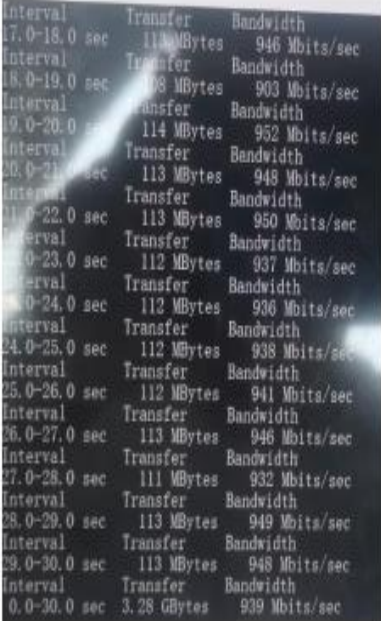
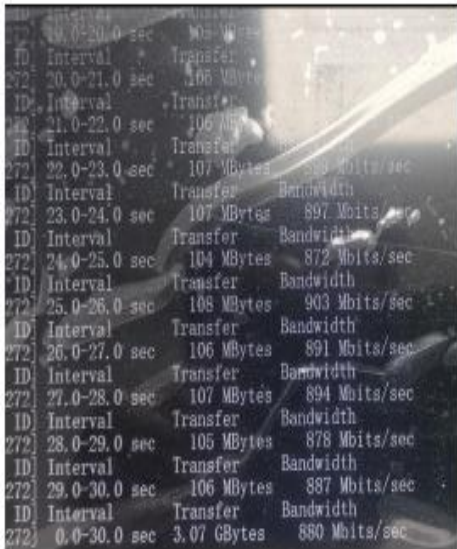
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Throughput Test(2.4G)

上行 Upload	369M	下行 Downstream	409M
图片 Pic.		图片 Pic.	

Throughput Test(5G)

上行 Upload	939M	下行 Downstream	880M
图片 Pic.		图片 Pic.	

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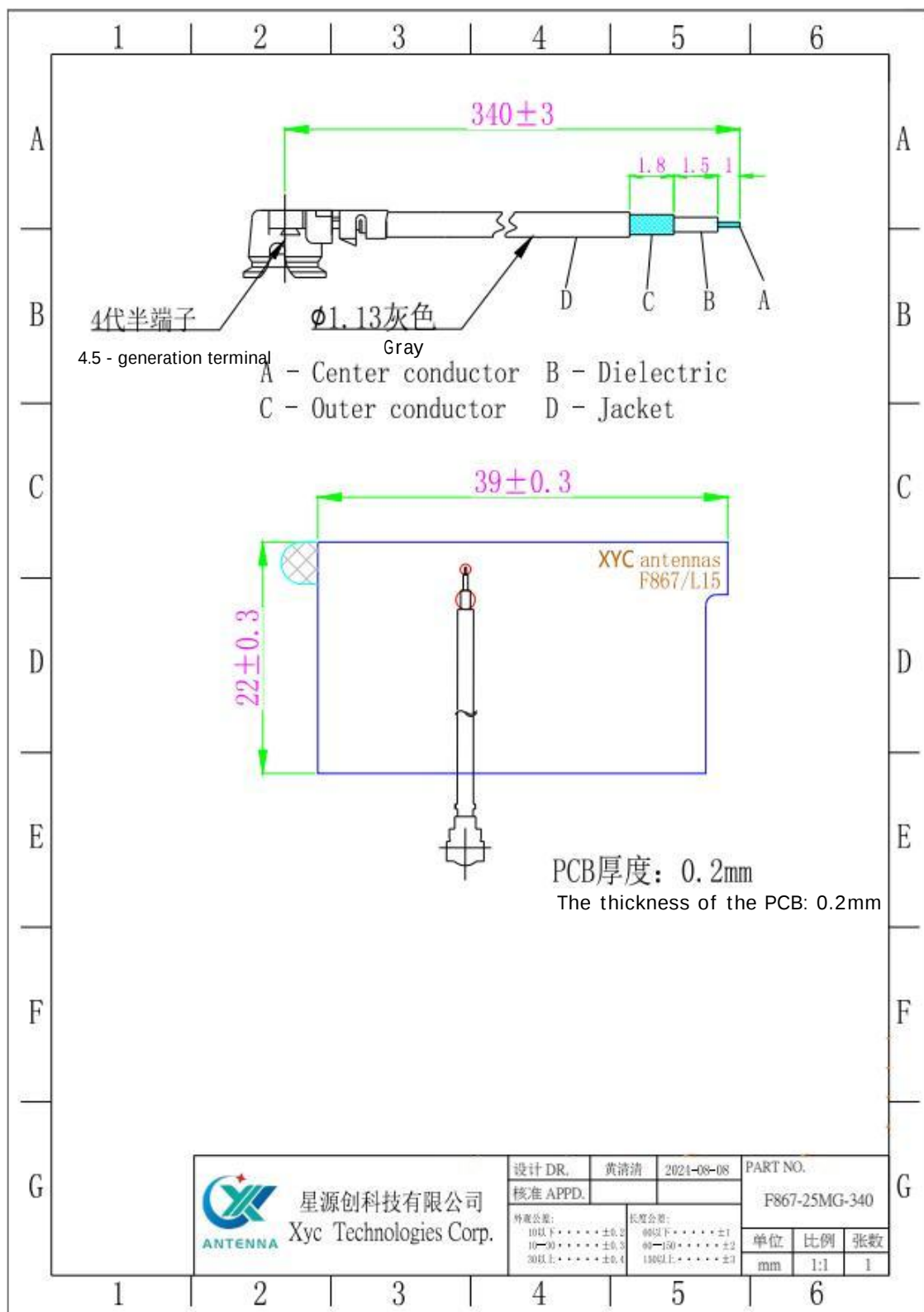
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Antenna Assembly



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Inspection Standard

Shenzhen Xingyuan Chuang Technology Co., Ltd.	Document Code	XYC-WI-PZ-02	Page
	Document Version	A0	1 of 1
Document Name	Sampling Plan		

Sampling Level Comparison Table

Special Inspection Level				General Inspection Level			Lot Size Range	Sample Code Letter	Sample Size	0.65		1.0		1.5		2.5		4.0		6.0	
S-1	S-2	S-3	S-4	I	II	III				AC	RE	AC	RE	AC	RE	AC	RE	AC	RE	AC	RE
A	A	A	A	A	A	B	2---8	A	2	0	1	0	1	0	1	0	1	0	1	0	1
A	A	A	A	A	B	C	9---15	B	3	0	1	0	1	0	1	0	1	0	1	0	1
A	A	B	B	B	C	D	16---25	C	5	0	1	0	1	0	1	0	1	0	1	1	2
A	B	B	C	C	D	E	26---50	D	8	0	1	0	1	0	1	0	1	1	2	1	2
B	B	C	C	C	E	F	51---90	E	13	0	1	0	1	0	1	1	2	1	2	2	3
B	B	C	D	D	F	G	91---150	F	20	0	1	0	1	1	2	1	2	2	3	3	4
B	C	D	E	E	G	H	151---280	G	32	0	1	1	2	1	2	2	3	3	4	5	6
B	C	D	E	F	H	J	281---500	H	50	1	2	1	2	2	3	3	4	5	6	7	8
C	C	E	F	G	J	K	501---1200	J	80	1	2	2	3	3	4	5	6	7	8	10	11
C	D	E	G	H	K	L	1201---3200	K	125	2	3	3	4	5	6	7	8	10	11	14	15
C	D	F	G	J	L	M	3201---10000	L	200	3	4	5	6	7	8	10	11	14	15	21	22
C	D	F	H	K	M	N	10001---35000	M	315	5	6	7	8	10	11	14	15	21	22	21	22
D	E	G	J	L	N	P	35001---150000	N	500	7	8	10	11	14	15	21	22	21	22	21	22
D	E	G	J	M	P	Q	150001---500000	P	800	10	11	14	15	21	22	21	22	21	22	21	22
D	E	H	K	N	Q	R	500001 and over	Q	1250	14	15	21	22	21	22	21	22	21	22	21	22
								R	2000	21	22	21	22	21	22	21	22	21	22	21	22

AC is the acceptable item RE is the reject item

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