

SAMPLE & SPECIFICATION FOR APPROVAL

Customer: T2 Mobile (Shanghai) Limited

Model NO: PM95

Customer P/N: PM95_C_ANT_HM0330-CA (15. PM95052001)

Version: V0.1

Specification Describe: PM95 C Antenna (Carrier + LDS)

Vendor P/N: HM0330-CA

Date: 2023/12/28

Sample and datasheet must be approved for 5 PCS .

No Customer appointed Material				Assign Part
	R&D		QE	Sales
Department	MD	HW	Quality and Eng. Dep.	Sale& Marketing
Checked By	LIXU	Li ShengHua	LiWeiWei	LiMin
Approved By	LIXueQin	WangJinhui	YeLing	YiQin
Final Judgment	LiLinHua	LiLinHua	LiLinHua	LiLinHua
Remark				

Suzhou HuiMi Communication Technology Co.,Ltd

Antenna Approval Sheet

Customer	T2 Mobile (Shanghai) Limited		
Customer P/N	PM95_C_ANT_HM0330-CA (15.PM95052001)		
Model	PM95		
P/N	HM0330-CA		
Description	PM95-C ANTENNA (Carrier+LDS)		
Frequency	ANT5:2300-2690MHz+3300-5000MHz ANT10:2300-2690MHz ANT7:1805-2690MHz		
Initial Date	2023/12/28		
Revision	A		
Author	RF Engineer	ME	Confirm
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Approval	R&D	PM	QE

Customer Signature

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1. Summary

This is the C antenna approval sheet.

Working band :

ANT5:2300-2690MHz+3300-5000MHz

ANT10:2300-2690MHz

ANT7:1805-2690MHz

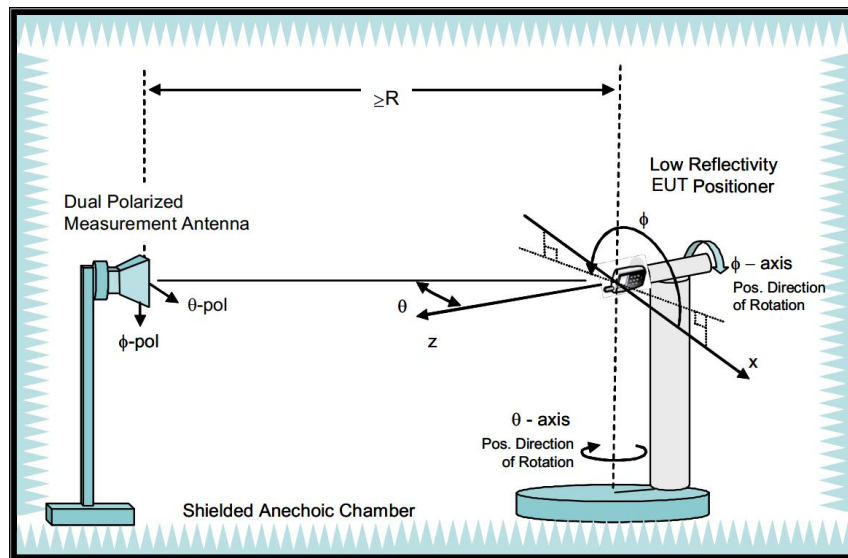
2. Antenna Structure

Carrier + LDS

3. Device Conditions

PM95 Mobile phone

4. Test Environment



Picture 2 Test Environment photo

5. Antenna Test Results

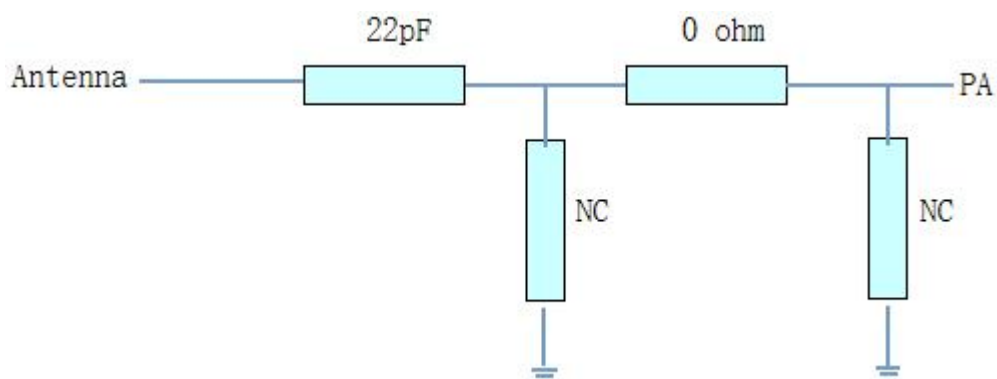
5.1 Antenna Photos

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Picture 3 PM95 C antenna photo

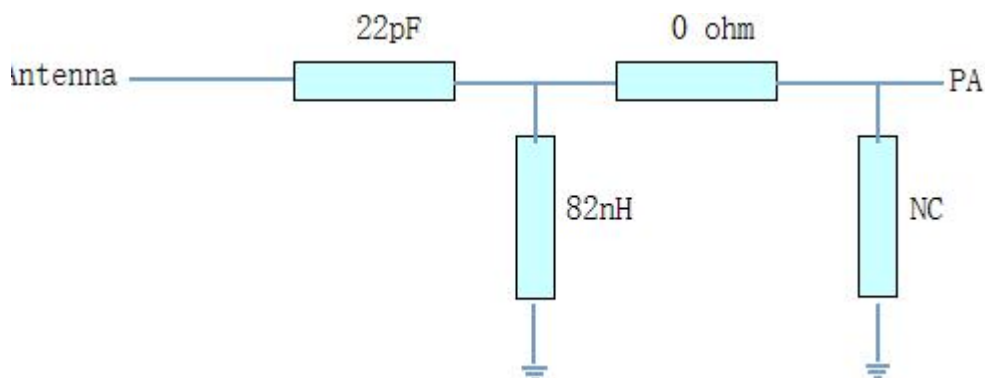
5.2 Matching Network

5.2.1 matching network for ANT5



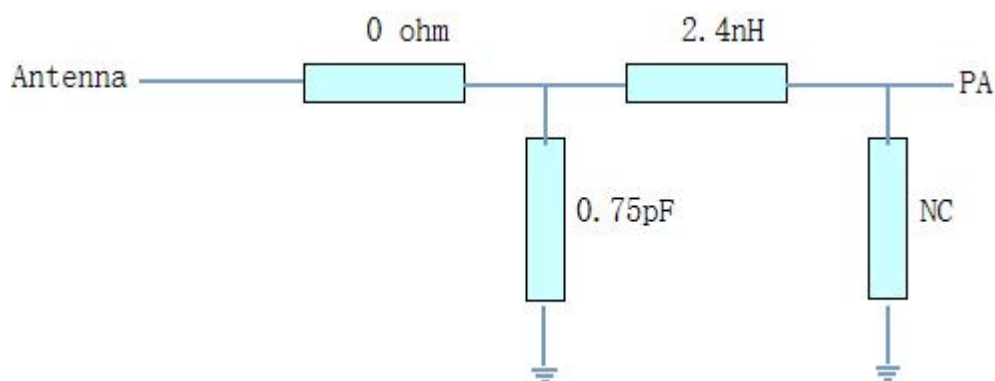
Picture 4 Matching network for ANT5

5.2.2 matching network for ANT10



Picture 5 Matching network for ANT10

5.2.3 matching network for ANT7



Picture 6 Matching network for ANT7

5.3 VSWR (S11)

5.3.1 VSWR for ANT5



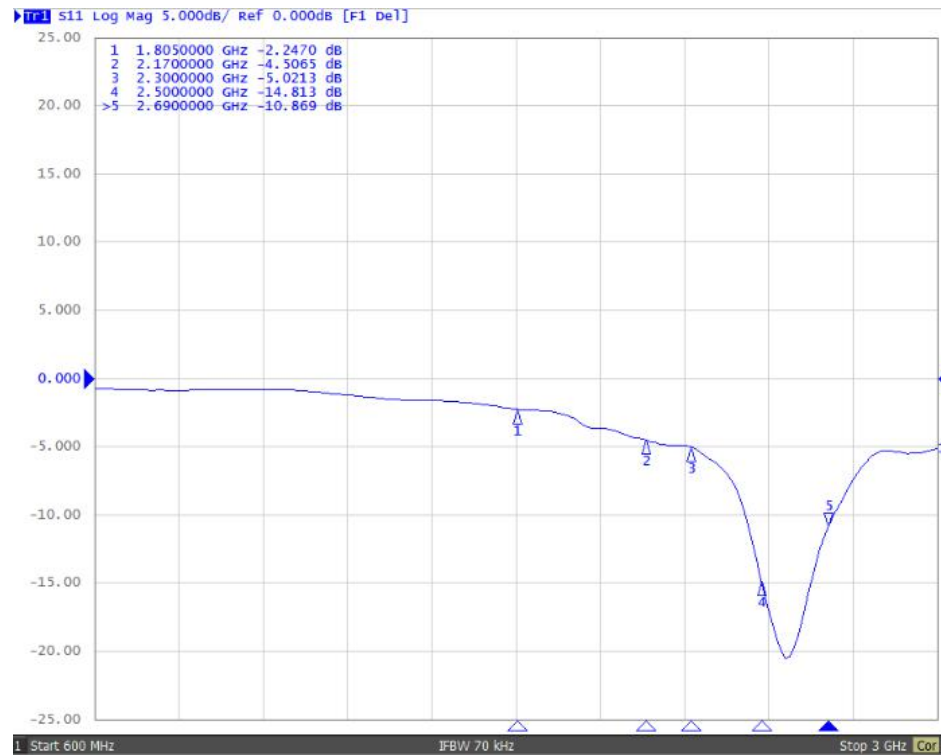
Picture 7 VSWR for ANT5

5.3.2 VSWR for ANT10



Picture 8 VSWR for ANT10

5.3.3 VSWR for ANT7



Picture 9 VSWR for ANT7

5.4 Efficiency & Peak Gain

5.4.1 Efficiency & Peak Gain for ANT5

Freq (MHz)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (dB)	Gain (dBi)
2300	-5.46	0.07	3300	-5.45	0.9
2320	-4.92	0.63	3350	-5.04	1.66
2340	-4.09	1.62	3400	-5.52	1.46
2360	-3.78	2.05	3450	-5.97	0.63
2380	-3.88	2.19	3500	-6.19	0.17
2400	-3.67	2.6	3550	-5.43	0.51
2420	-3.41	2.91	3600	-5.49	0.17
2440	-3.54	2.77	3650	-5.25	0.04
2460	-3.73	2.51	3700	-5.32	-0.22
2480	-3.98	2.54	3750	-5.26	0.17
2500	-4.5	2	3800	-4.82	0.33
2520	-4.12	2.1	3850	-4.24	1.03
2540	-4	2.01	3900	-4.39	0.53
2560	-4.47	1.33	3950	-4.83	-0.04
2580	-4.21	1.62	4000	-4.59	0.28
2600	-3.34	2.47	4050	-3.76	1.28
2620	-3.24	2.36	4100	-3.33	1.87
2640	-3.58	1.85	4150	-3.81	1.72
2660	-3.44	1.84	4200	-4.46	1.29
2680	-3.31	1.95	4250	-4.23	1.68
2700	-3.45	1.99	4300	-3.54	2.5
			4350	-3.72	2.44
			4400	-3.46	2.61
			4450	-3.8	2.1
			4500	-4.31	1.64
			4550	-4.37	1.55
			4600	-3.76	1.98
			4650	-4.24	1.25
			4700	-4.45	0.93
			4750	-4.84	0
			4800	-4.7	0.43
			4850	-4.71	0.43
			4900	-4.36	0.11
			4950	-4.67	-0.01
			5000	-4.25	0.38

5.4.2 Efficiency & Peak Gain for ANT10

Freq (MHz)	Effi (dB)	Gain (dBi)
2300	-4.05	3.28
2320	-3.73	3.56
2340	-3.49	3.79
2360	-3.89	3.68
2380	-4.48	3.46
2400	-4.94	3.2
2420	-4.38	3.43
2440	-4.34	3.03
2460	-3.97	3.07
2480	-3.95	3.14
2500	-4	3
2520	-3.37	3.75
2540	-2.99	3.98
2560	-3.7	3.12
2580	-3.67	3.08
2600	-3.21	3.65
2620	-3.25	3.65
2640	-3.76	3.13
2660	-3.76	3.19
2680	-3.59	3.66
2700	-3.74	4

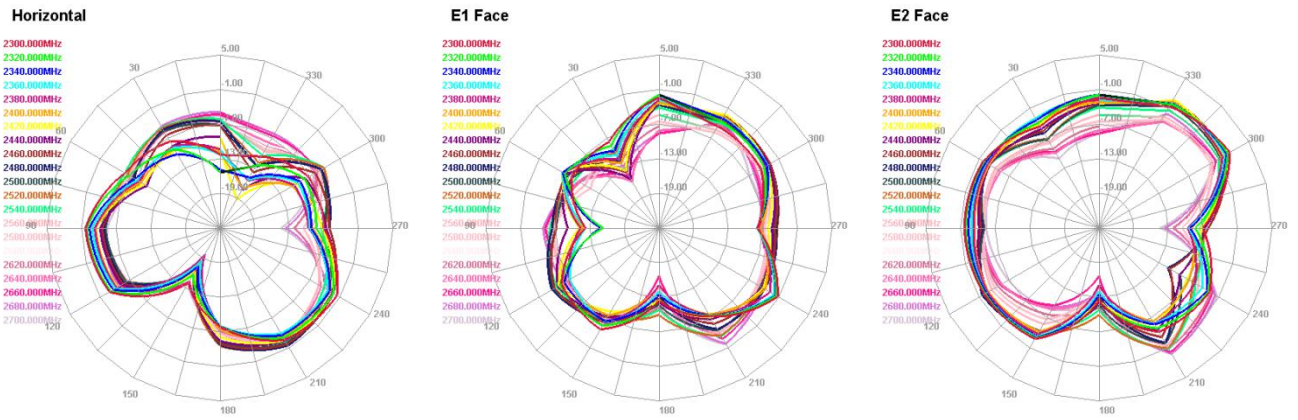
5.4.3 Efficiency & Peak Gain for ANT7

Freq (MHz)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (dB)	Gain (dBi)
1810	-11.16	-6.17	2270	-5.04	-1.2
1830	-10.6	-5.68	2290	-4.61	-0.8
1850	-9.65	-4.75	2310	-4.46	-0.66
1870	-9.85	-5	2330	-3.95	-0.2
1890	-9.89	-4.98	2350	-3.92	-0.1
1910	-9.29	-4.12	2370	-3.47	0.44
1930	-9.18	-3.95	2390	-3.82	0.04
1950	-9.03	-3.73	2410	-3.66	0.24
1970	-8.62	-3.26	2430	-3.39	0.21
1990	-8.41	-3	2450	-2.97	0.62
2010	-8.51	-2.95	2470	-3.28	0.41
2050	-9.23	-4.37	2490	-3.22	0.99
2070	-8.22	-4.07	2510	-3.15	0.79
2090	-7.43	-3.32	2530	-2.59	1.6
2110	-6.5	-1.85	2550	-3.36	1
2130	-5.94	-1.09	2570	-3.78	0.83
2150	-5.88	-1.31	2590	-3.04	2.06
2170	-5.06	-0.86	2610	-3.33	2.02
2190	-5.5	-1.42	2630	-3.25	1.82
2210	-5.43	-1.27	2650	-3.26	1.42
2230	-5.53	-1.27	2670	-3.24	1.22
2250	-5.11	-1.1	2690	-3.19	1.44

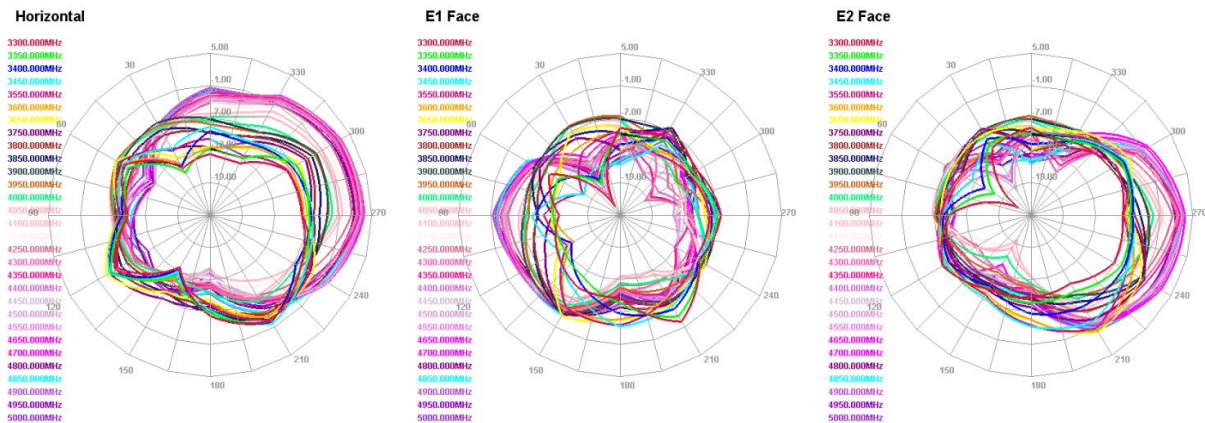
5.5 Radiation Pattern

5.5.1 Radiation Pattern for ANT5

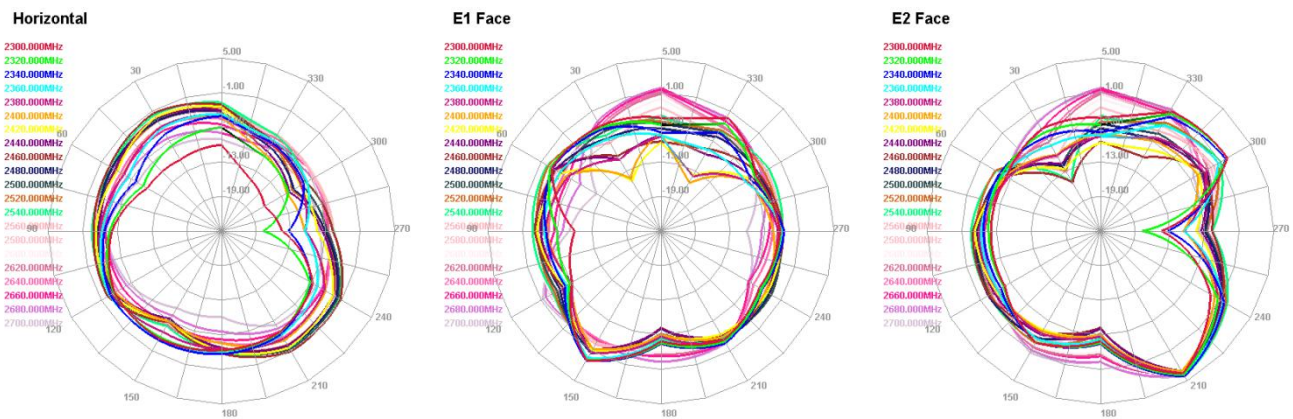
ANT5(2300-2690MHz)



ANT5(3300-5000MHz)



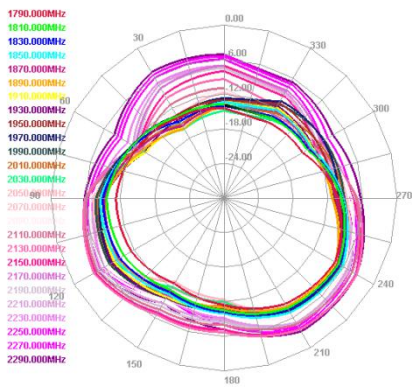
5.5.2 Radiation Pattern for ANT10



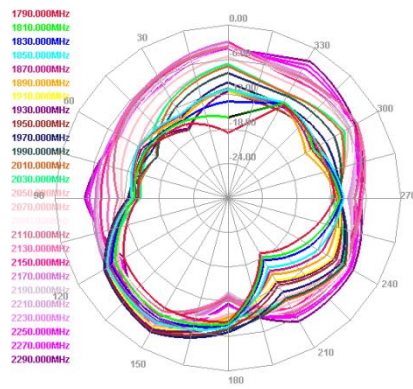
5.5.3 Radiation Pattern for ANT7

ANT7(1805-2300MHz)

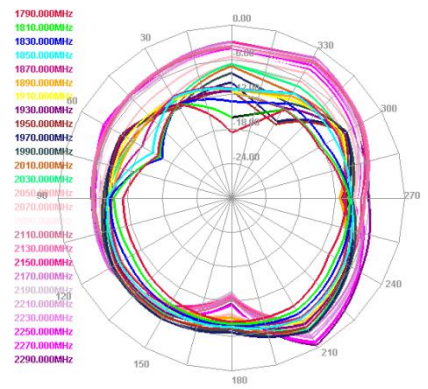
Horizontal



E1 Face

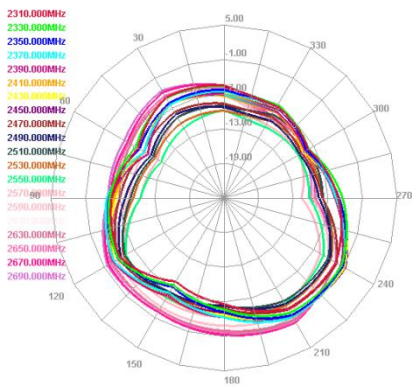


E2 Face

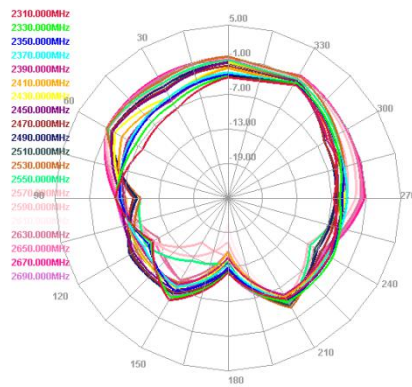


ANT7(2310-2690MHz)

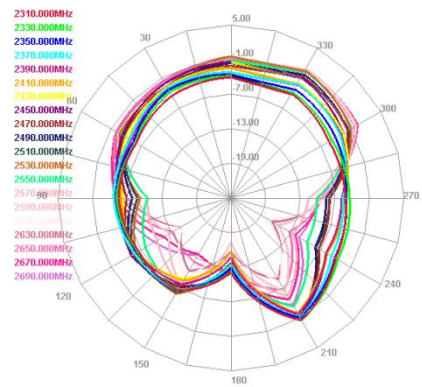
Horizontal



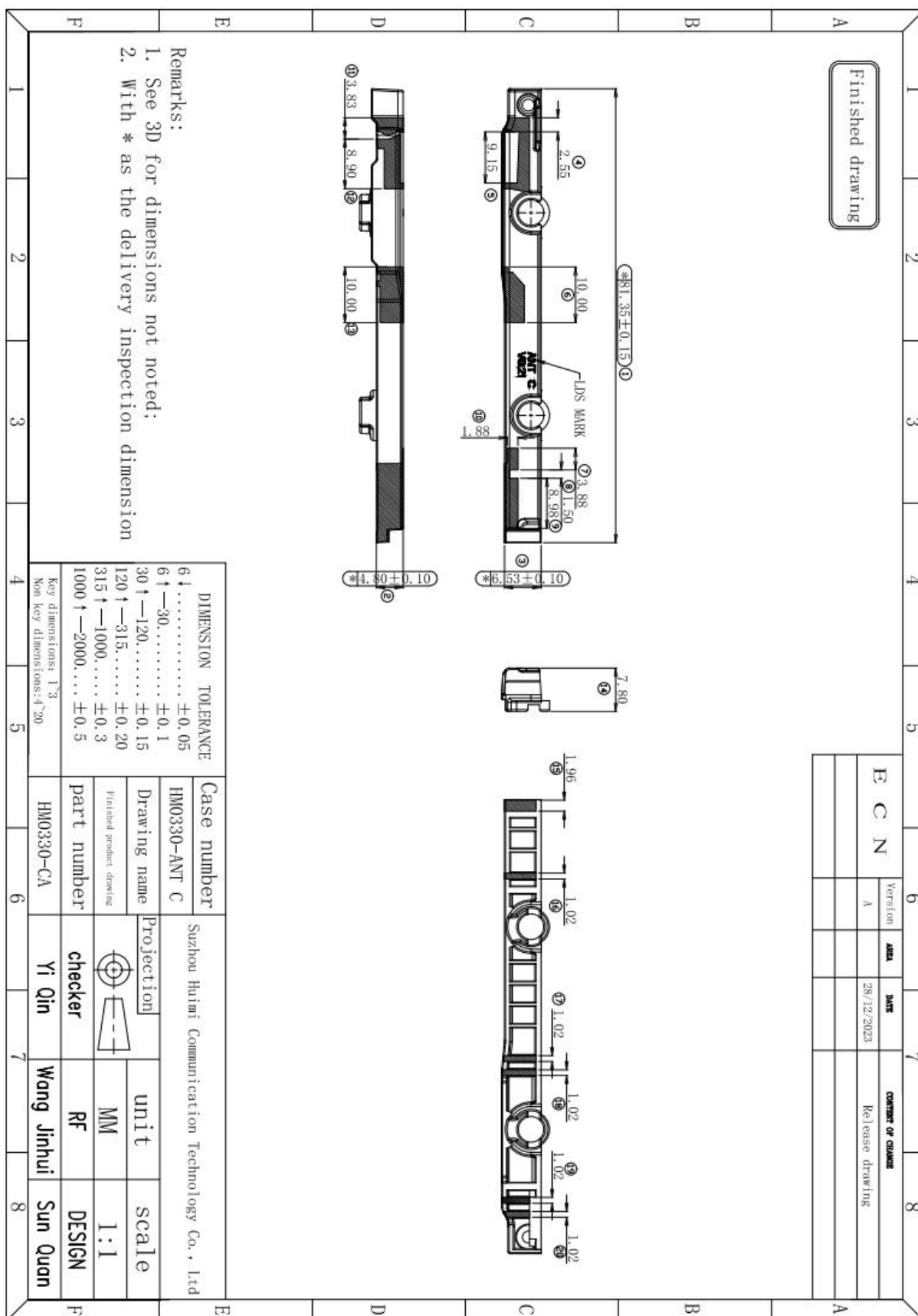
E1 Face



E2 Face



6. Mechanical Drawings



[illegible]