



QUBE 6015 PLUS

UHF RFID Antenna

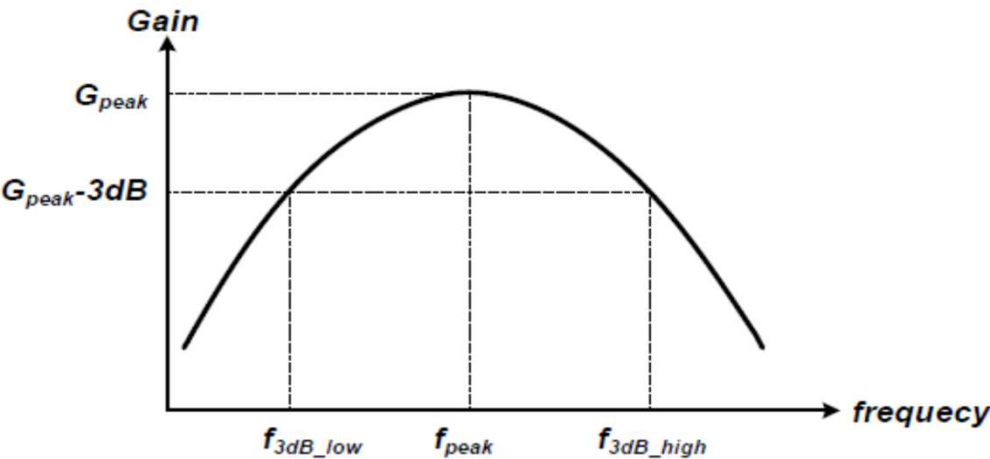
Specification

1. Part Name
KSA-921A6015B100E

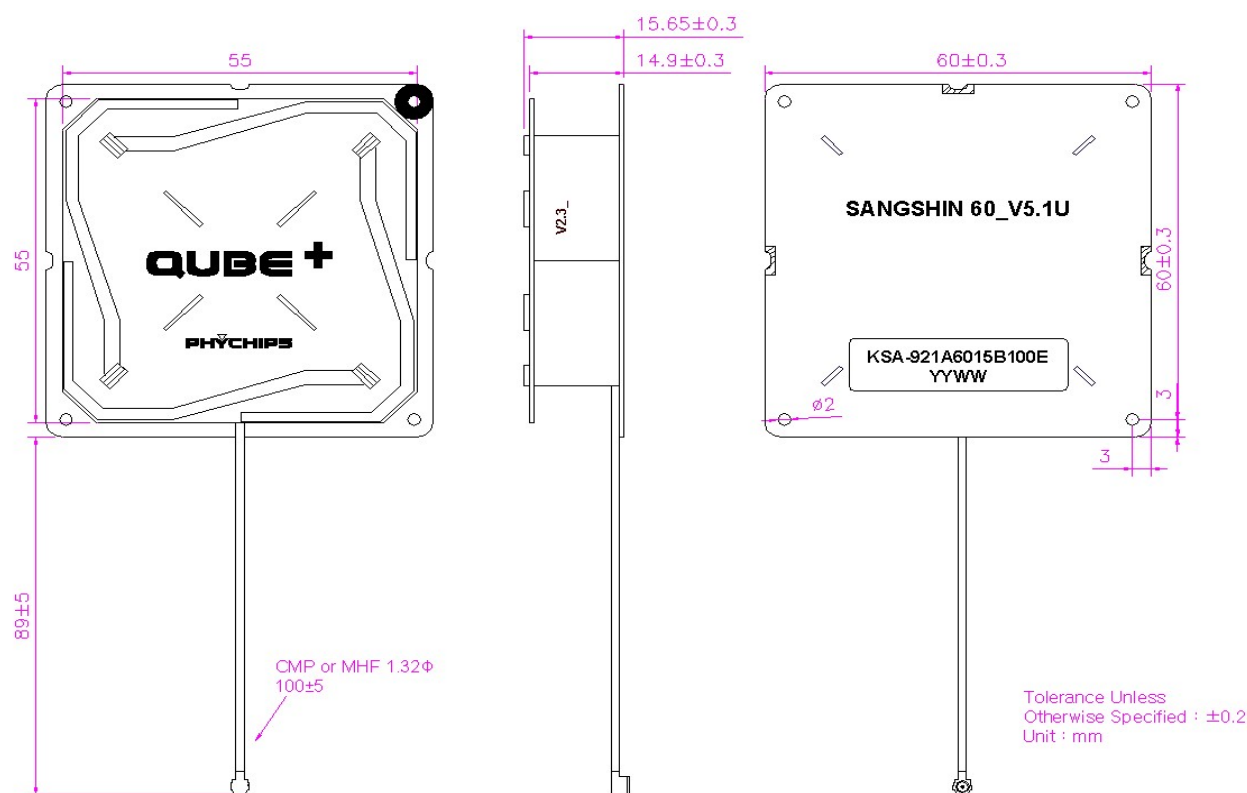
2. Electrical Specifications

Item	Specifications			
	Min.	Typical	Max.	Unit
Center Frequency (= Fc)	917	921	925	MHz
3dB Bandwidth	26	30		MHz
Return Loss @ Fc			-15	dB
Polarization	R.H.C.P			
Peak Gain @ Fc (RHCP)		4		dBic
Gain @ Reference Antenna	-14	-11		dB

Note 1. Operating frequency is defined as frequency range between f3dB_low and f3dB_high.



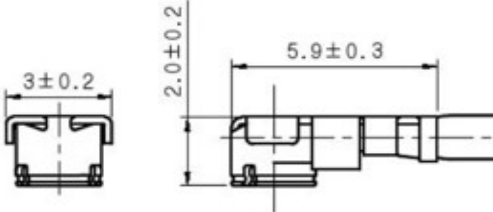
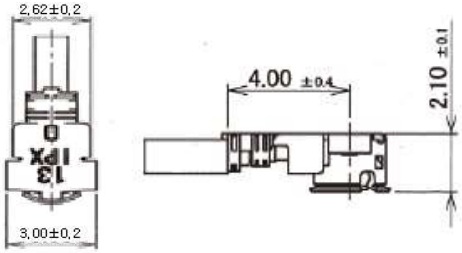
3. Dimensions



* Both CMP(Gigalane) and MHF(I-PEX) can be used interchangeably.
However, only one type, either CMP or MHF, must be used in the same LOT production.

* YYWW : Date Code

* Dimensions of Connector

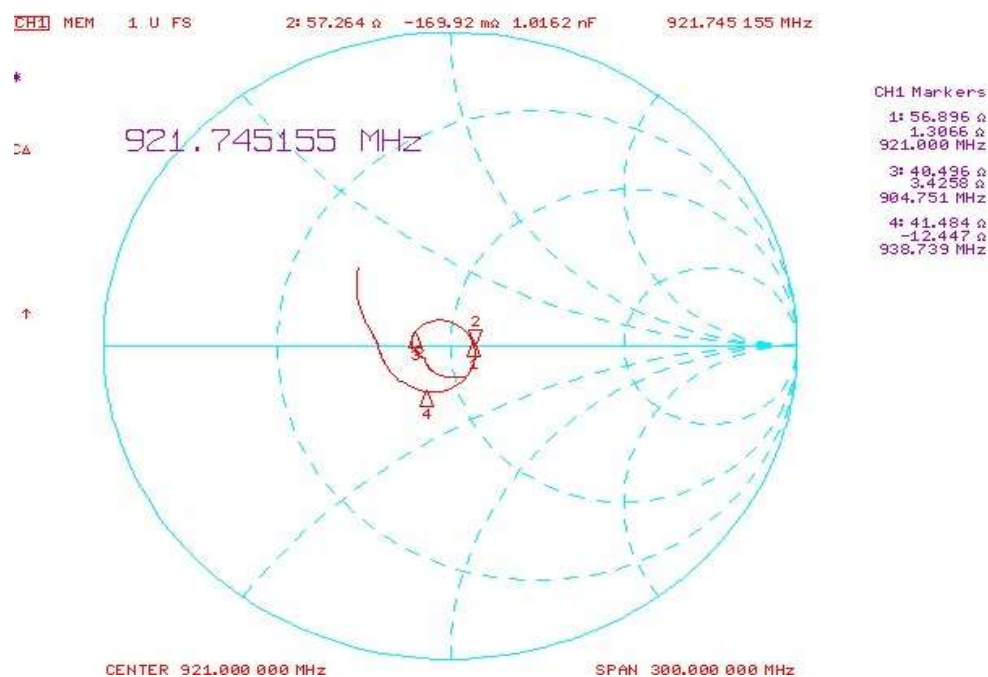
CMP	MHF
	

4. S-parameter Data

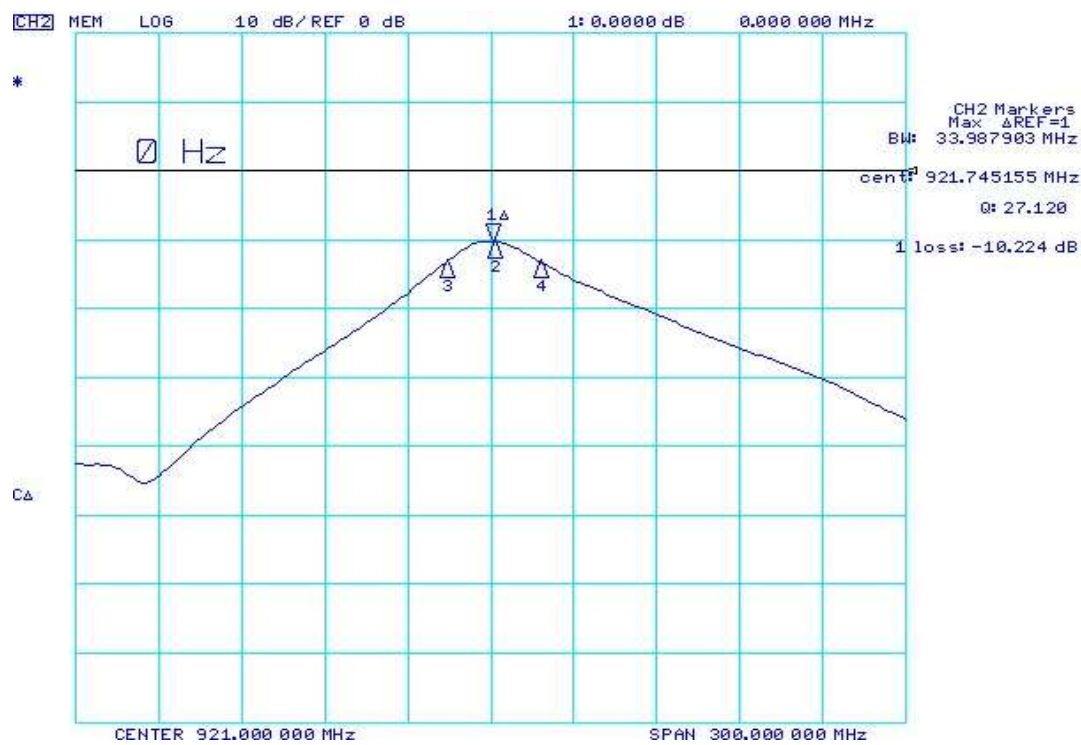
4.1 Return Loss (S11)



4.2 Smith Chart (S11)



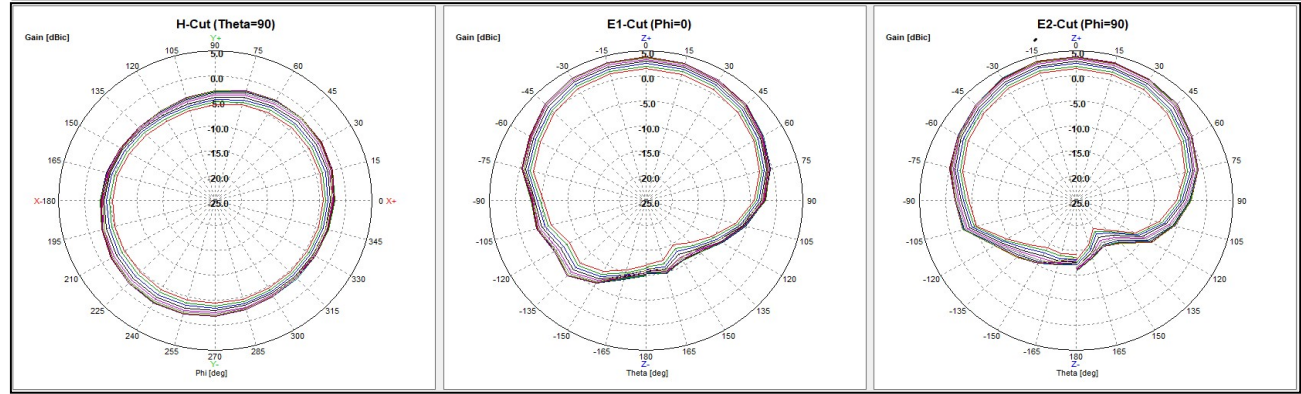
4.3 Gain (S21)



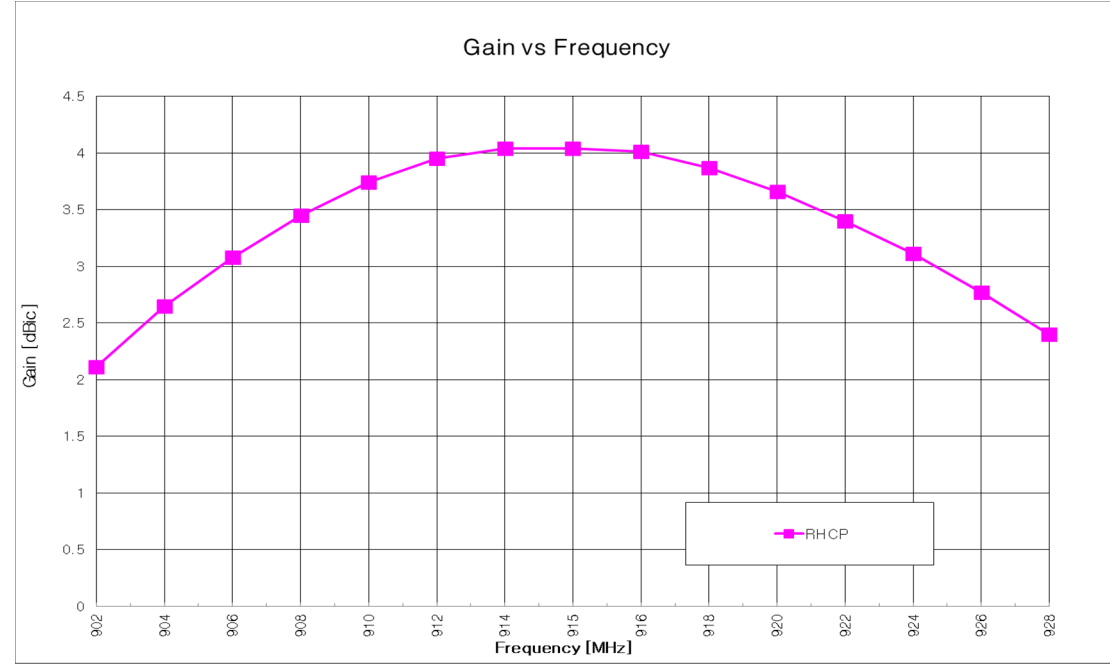
5. Antenna Chamber Data

5.1 RHCP Gain

No.	Freq.	RHCP				H(Theta=1)					E1(Phi=0)				E2(Phi=90)			
		Eff.[%]	Avg.[dBic]	Peak[dBic]	Theta[deg]	Phi[deg]	Avg.[dBic]	Peak[dBic]	[deg]	BW[deg]	Avg.[dBic]	Peak[dBic]	Theta[deg]	BW[deg]	Avg.[dBic]	Peak[dBic]	Theta[deg]	BW[deg]
4	906.000	45.86	-3.39	1.58	0.00	255.00	-4.92	-4.19	30.00	999.00	-2.67	1.43	0.00	124.17	-2.87	1.46	-15.00	123.39
5	908.000	51.74	-2.86	2.09	0.00	255.00	-4.39	-3.62	30.00	999.00	-2.14	1.96	0.00	123.91	-2.36	1.97	-15.00	123.16
6	910.000	57.84	-2.38	2.57	0.00	255.00	-3.90	-3.11	30.00	999.00	-1.66	2.42	0.00	123.99	-1.88	2.46	-15.00	122.97
7	912.000	64.32	-1.92	3.03	0.00	255.00	-3.43	-2.60	30.00	999.00	-1.20	2.89	0.00	123.35	-1.42	2.92	-15.00	122.91
8	914.000	70.58	-1.51	3.43	0.00	255.00	-3.02	-2.17	30.00	999.00	-0.80	3.29	0.00	122.79	-1.01	3.31	0.00	122.75
10	916.000	75.51	-1.22	3.73	0.00	255.00	-2.72	-1.78	240.00	999.00	-0.53	3.56	0.00	122.42	-0.71	3.62	-15.00	122.37
11	918.000	78.49	-1.05	3.93	0.00	255.00	-2.54	-1.50	240.00	999.00	-0.37	3.73	0.00	121.45	-0.53	3.80	-15.00	122.17
12	920.000	79.66	-0.99	4.00	0.00	255.00	-2.46	-1.37	240.00	999.00	-0.33	3.79	0.00	120.46	-0.45	3.87	-15.00	121.82
13	921.000	79.80	-0.98	4.01	0.00	270.00	-2.45	-1.32	240.00	999.00	-0.34	3.81	0.00	119.98	-0.43	3.89	-15.00	121.73
14	922.000	79.58	-0.99	4.01	0.00	255.00	-2.46	-1.31	240.00	359.29	-0.36	3.80	0.00	119.44	-0.44	3.88	-15.00	121.55
15	924.000	78.25	-1.06	3.97	0.00	270.00	-2.53	-1.36	240.00	358.63	-0.45	3.74	0.00	118.31	-0.48	3.83	-15.00	120.73
16	926.000	75.33	-1.23	3.84	0.00	255.00	-2.69	-1.51	240.00	999.00	-0.64	3.61	0.00	116.45	-0.62	3.70	-15.00	119.91
17	928.000	71.07	-1.48	3.63	0.00	255.00	-2.95	-1.75	240.00	999.00	-0.89	3.41	0.00	114.73	-0.84	3.49	-15.00	118.83
18	930.000	66.25	-1.79	3.36	0.00	270.00	-3.27	-2.08	240.00	999.00	-1.21	3.14	0.00	113.56	-1.13	3.22	-15.00	117.56
19	932.000	61.37	-2.12	3.09	0.00	270.00	-3.62	-2.47	240.00	999.00	-1.54	2.87	0.00	112.07	-1.43	2.92	-15.00	116.27
20	934.000	56.49	-2.48	2.78	0.00	270.00	-4.01	-2.88	240.00	999.00	-1.90	2.56	0.00	111.08	-1.77	2.62	-15.00	115.08
21	936.000	51.41	-2.89	2.40	0.00	270.00	-4.46	-3.32	240.00	999.00	-2.30	2.21	0.00	109.63	-2.16	2.25	-15.00	114.05



5.2 Gain vs Frequency



6. Measurement within enclosure
TBD

6.1 Reader or Model Name

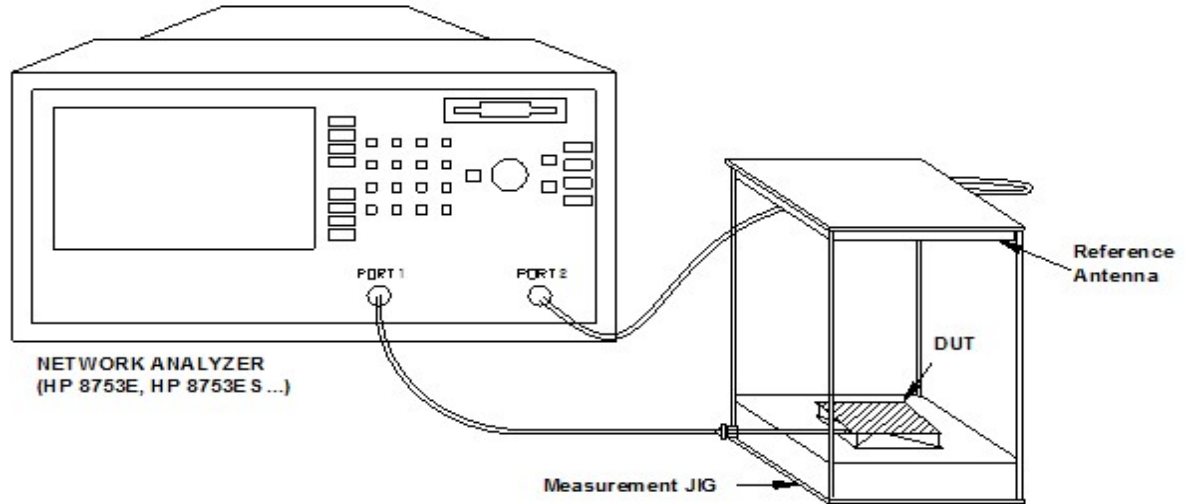
6.2 Electrical Specifications

Item	Specifications			
	Min.	Typical	Max.	Unit
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3dB Bandwidth				MHz
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Polarization	R.H.C.P			
Peak Gain @ Fc (RHCP)				dBic

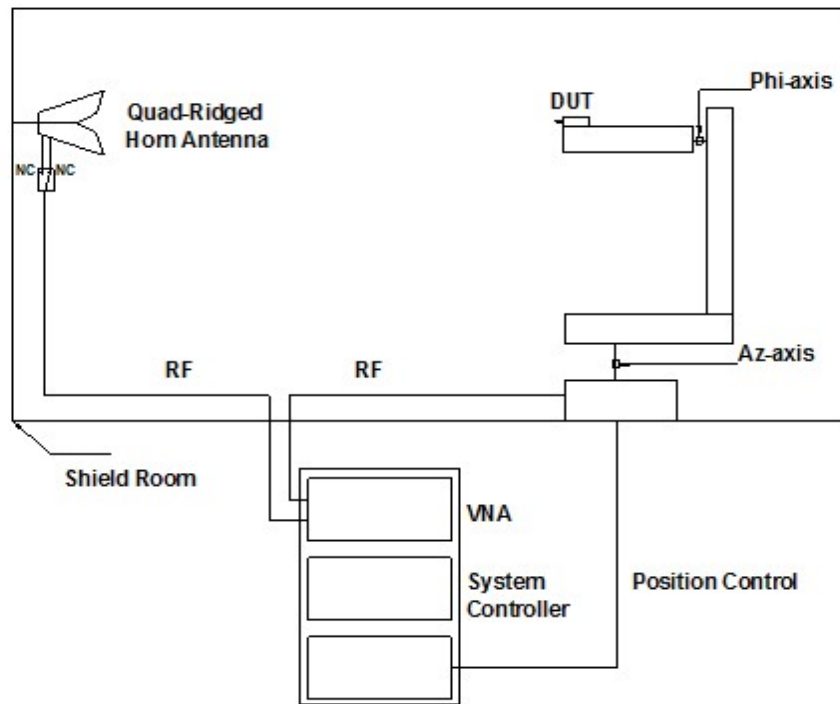
6.3 Antenna Chamber Data within enclosure

7. Measurement Condition

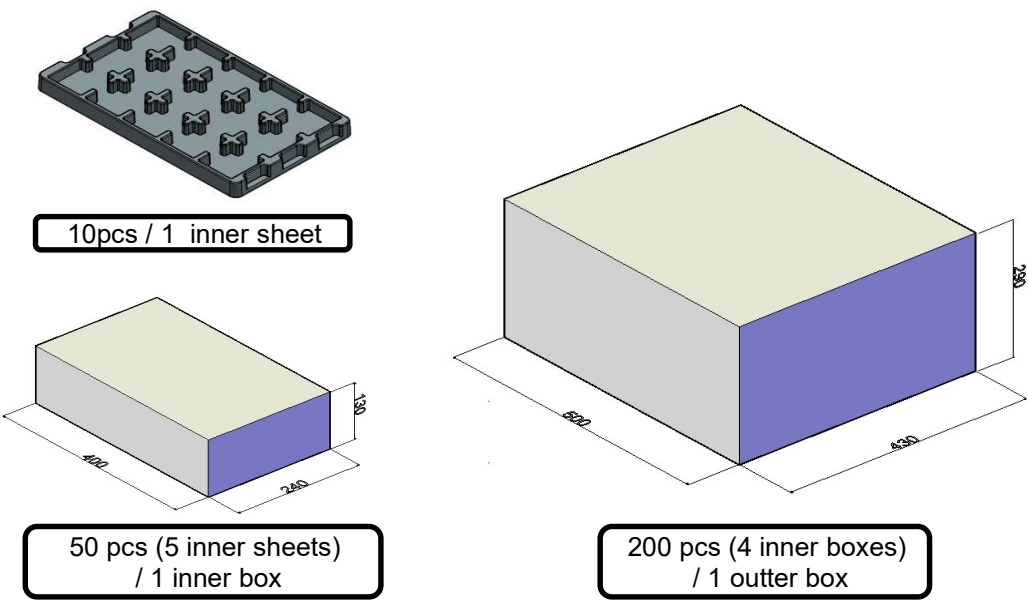
7.1 S-parameter Measurement



7.2 Gain Measurement



8. Package



9. Revision

Revision No.	Originator	Description of Change	Date of Changes
1.0.0	SM Yun	Full specification	10-Jan-24

10. Contact Information

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