

# **MODEL SPECIFICATIONS**

Project Name: sub6G FPC no.3

Author: Wistron NeWeb Corporation

Revision: 0.2

**Revision Date: 2023/08/09** 



# **Contact Information**

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## **Revision History**

Rev. #	Author	Summary of Changes	Date		
0.1	Dennis Huang	New release	2023/3/13		
0.2	Dennis Huang	Add raw data and Coordinate	2023/8/9		



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### **1. Introduction**

This specification covers the FPC antenna for sub6G.

# 2. Electrical Specifications

Electrical characteristics of antenna. The antenna has the electrical characteristics given in Table 1 under WNC standard installation conditions shown in the figure.

Electrical Characteristics										
Freq. (MHz)	617~960	1156~1585	1710~2700	3300~4200	4200~5925					
V.S.W.R.	≤ 3.5	≤ 3.0	≤ 2.0	≤ 1.5	≤ 2.0					
Peak Gain	2.8dBi	3.0dBi	5.3dBi	5.6dBi	7.9dBi					
Eff.%(max./avg.)	71/62	65/54	85/70	76/71	69/62					
Impedance	50 Ohm									
Cable type	φ <b>1.37</b>									
Cable length	200mm									
Connector	IPEX MHF									
Substrate	FPC									
Dimension	27mm x 116mm									



### **3. Environmental conditions**

#### 3.1 Operating conditions

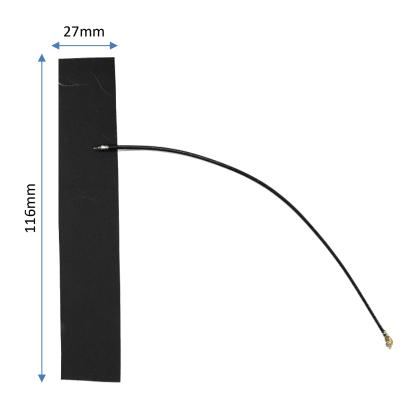
The antenna has the electrical characteristics given in Tables 1 in the temperature range of -

 $40^{\circ}$ C to  $+105^{\circ}$ C and under the environmental conditions of  $+40^{\circ}$ C and 0-95% R.H.

#### 3.2 Storage temperature range

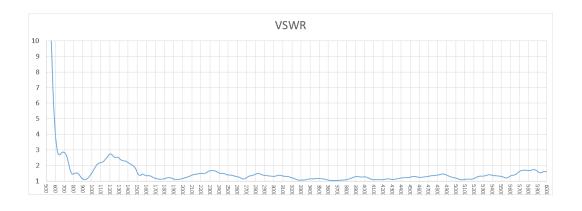
The storage temperature range of product is  $-40^{\circ}$ C to  $+105^{\circ}$ C.

### 4. Shape and Dimension

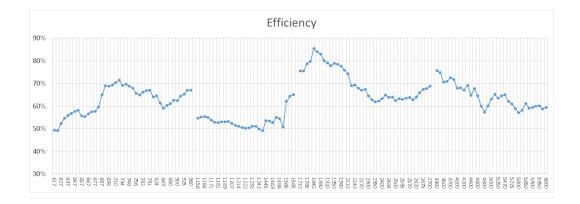




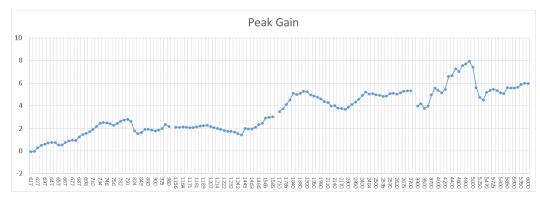
### 5. VSWR



# 6. Efficiency



### 7. Peak Gain



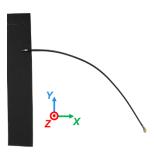


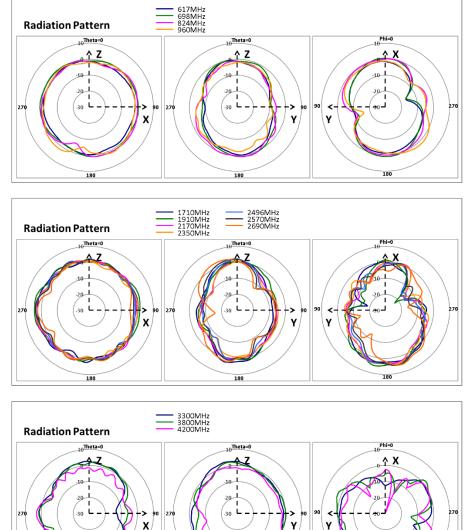
# 8. Raw data

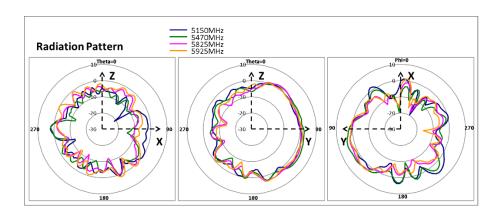
Freq.	<b>-</b> <i>t</i>	Avg.	Peak	Freq.		Avg.	Peak	Freq.	Efficiency.	Avg.	Peak	Freq.	<b>F</b> #isianau	Avg.	Peak
(MHz)	Efficiency	Gain	Gain	(MHz)	Efficiency	Gain	Gain	(MHz)	Efficiency	Gain	Gain	(MHz)	Efficiency	Gain	Gain
617	49%	-3.07	-0.08	1156	55%	-2.63	2.09	1710	75%	-1.22	3.47	3300	76%	-1.21	3.97
622	49%	-3.09	-0.03	1161	55%	-2.59	2.10	1747	76%	-1.22	3.74	3400	75%	-1.26	4.18
627	52%	-2.81	0.30	1164	55%	-2.57	2.11	1785	79%	-1.04	4.12	3500	71%	-1.51	3.75
632	55%	-2.63	0.49	1166	55%	-2.60	2.10	1805	80%	-0.98	4.51	3600	71%	-1.50	3.95
637	56%	-2.54	0.61	1171	54%	-2.69	2.06	1840	85%	-0.69	5.11	3700	73%	-1.39	4.95
642	57%	-2.46	0.70	1176	53%	-2.76	2.07	1850	84%	-0.76	5.00	3800	72%	-1.43	5.55
647	58%	-2.39	0.75	1181	53%	-2.78	2.12	1880	83%	-0.81	5.11	4000	68%	-1.68	5.36
652	58%	-2.36	0.74	1186	53%	-2.75	2.21	1910	80%	-0.96	5.30	4100	68%	-1.67	5.14
657	56%	-2.54	0.53	1189	53%	-2.75	2.25	1920	79%	-1.02	5.23	4200	67%	-1.73	5.46
662	55%	-2.57	0.55	1191	53%	-2.75	2.27	1930	78%	-1.09	4.96	4300	69%	-1.60	6.59
667	57%	-2.47	0.73	1207	52%	-2.81	2.16	1950	79%	-1.03	4.86	4400	65%	-1.89	6.67
672	57%	-2.41	0.88	1212	51%	-2.89	2.05	1960	78%	-1.05	4.76	4500	68%	-1.69	7.27
677	58%	-2.39	0.95	1214	51%	-2.92	1.99	1980	78%	-1.10	4.61	4600	64%	-1.90	7.03
682	60%	-2.25	0.91	1217	51%	-2.97	1.90	1990	76%	-1.20	4.37	4700	60%	-2.22	7.53
687	65%	-1.87	1.24	1222	50%	-2.99	1.81	2110	74%	-1.29	4.30	4800	57%	-2.42	7.70
692	69%	-1.62	1.46	1227	50%	-2.97	1.75	2132	69%	-1.61	3.98	4900	60%	-2.21	7.92
698	69%	-1.63	1.54	1232	51%	-2.92	1.73	2140	69%	-1.59	3.99	5000	63%	-2.00	7.40
704	69%	-1.59	1.70	1237	51%	-2.92	1.67	2155	68%	-1.68	3.79	5150	65%	-1.86	5.61
710	70%	-1.52	1.92	1242	50%	-3.02	1.53	2170	67%	-1.74	3.74	5250	63%	-1.98	4.76
716	71%	-1.46	2.17	1247	49%	-3.09	1.41	2200	67%	-1.72	3.69	5350	65%	-1.90	4.50
734	69%	-1.61	2.45	1445	54%	-2.71	1.98	2300	65%	-1.90	3.87	5470	65%	-1.87	5.19
740	70%	-1.57	2.50	1452	53%	-2.73	1.96	2325	63%	-2.02	4.12	5600	62%	-2.07	5.34
746	69%	-1.62	2.46	1463	53%	-2.78	1.96	2350	62%	-2.09	4.32	5725	61%	-2.15	5.46
751	68%	-1.68	2.39	1476	55%	-2.59	2.08	2375	62%	-2.06	4.57	5750	59%	-2.30	5.34
756	66%	-1.83	2.26	1486	54%	-2.65	2.33	2400	63%	-1.98	4.92	5800	57%	-2.43	5.13
777	65%	-1.87	2.44	1496	51%	-2.95	2.43	2442	65%	-1.88	5.20	5825	58%	-2.36	5.07
782	66%	-1.79	2.63	1565	62%	-2.08	2.89	2484	64%	-1.95	5.03	5850	61%	-2.14	5.59
787	67%	-1.75	2.74	1575	64%	-1.92	2.99	2496	64%	-1.94	5.05	5875	59%	-2.29	5.55
791	67%	-1.74	2.80	1585	65%	-1.86	3.01	2500	62%	-2.05	4.96	5900	59%	-2.26	5.57
806	64%	-1.93	2.61					2525	63%	-1.99	4.94	5925	60%	-2.22	5.63
824	65%	-1.90	1.78					2535	63%	-2.01	4.84	5950	60%	-2.21	5.88
836	61%	-2.13	1.52					2550	63%	-1.98	4.84	5975	59%	-2.31	6.00
849	59%	-2.29	1.64					2570	64%	-1.95	5.07	6000	59%	-2.26	5.96
869	60%	-2.20	1.91					2600	63%	-2.03	5.10				
880	61%	-2.15	1.91					2620	64%	-1.94	5.03				
894	63%	-2.03	1.86					2655	66%	-1.81	5.15				
900	62%	-2.04	1.77					2675	67%	-1.71	5.29				
915	64%	-1.92	1.84					2690	68%	-1.69	5.31				
925	65%	-1.85	1.99					2700	69%	-1.63	5.32				
940	67%	-1.74	2.32												
960	67%	-1.74	2.15												



## 9. Radiation Pattern







180

180

180