

Antenna Sample Datasheet

customer:	Raytheon
entry name:	BTE-680
Material category:	BT antenna
edition:	A17
Date:	2024. 4. 29

Directory

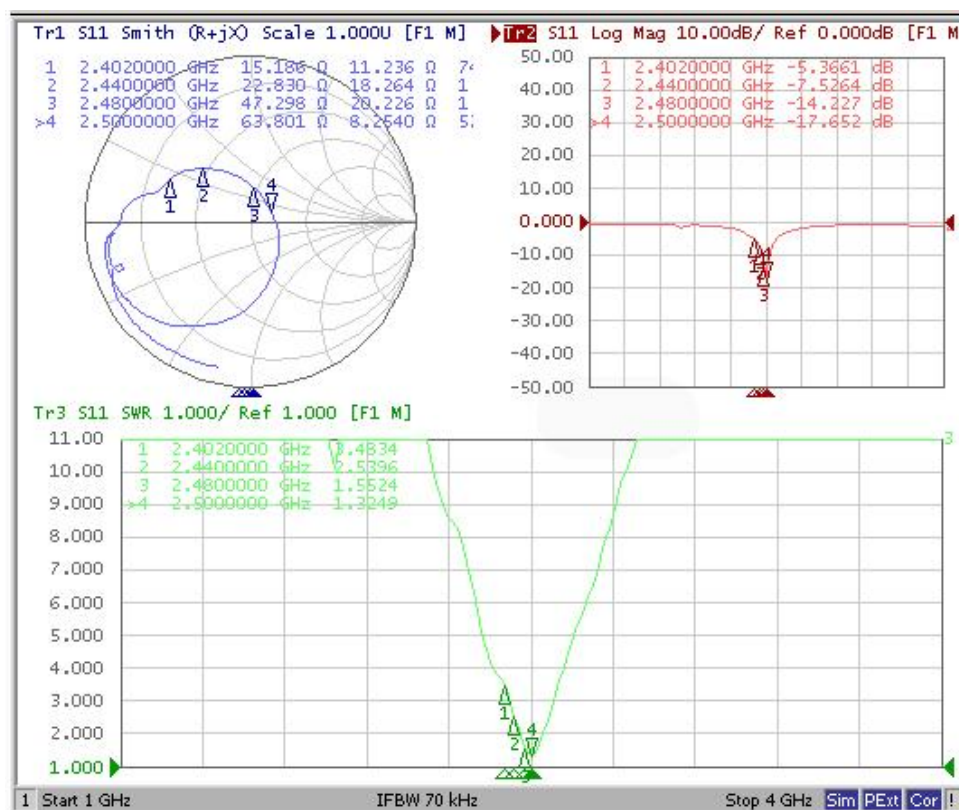
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1: Passive test report

network analyzer(5071B)



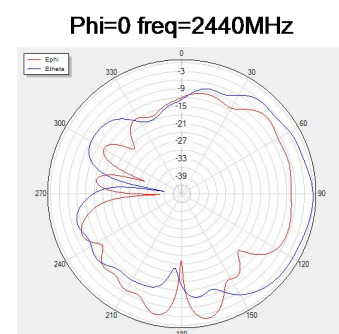
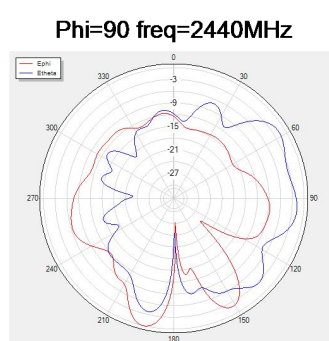
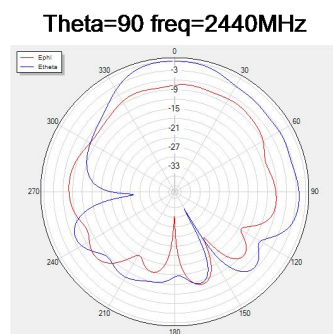
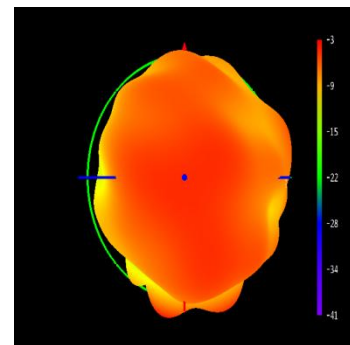
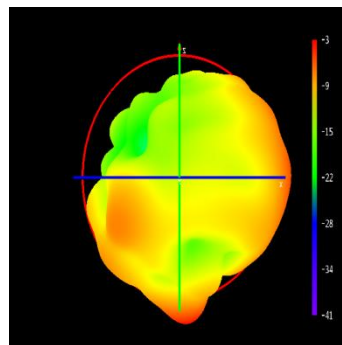
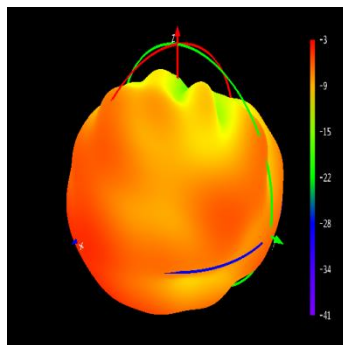
BT antenna S11 parameters



Passive efficiency of antenna for L&R

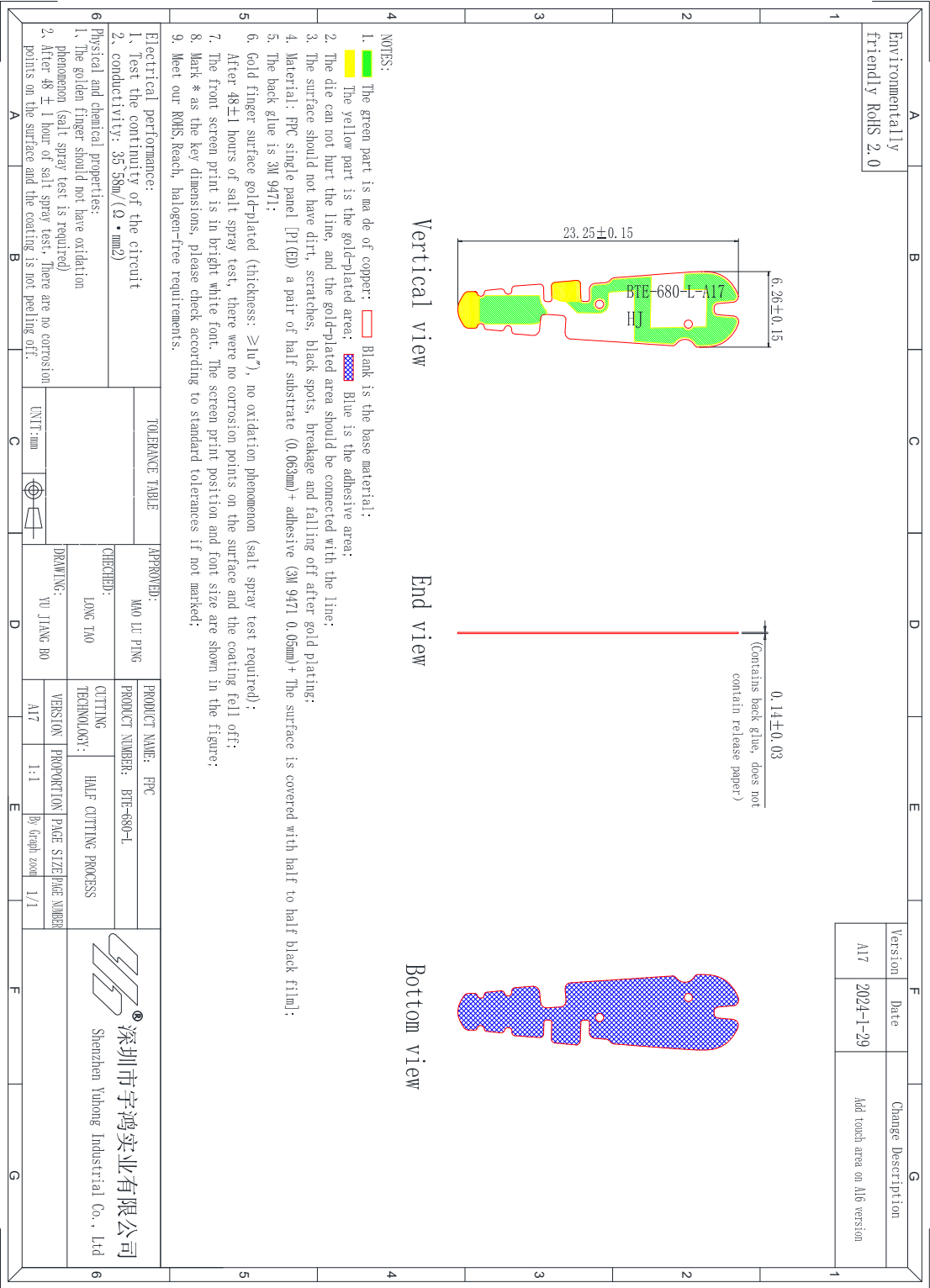
2400-2480MHz				
Freq(MHz)	Gain(dBi)	Efficiency(%)	Gain(dBi)	Efficiency(%)
	free space	free space	Second generation head mold	Second generation head mold
2400	-2.48	16.93	-4.63	10.49
2410	-2.47	17.6	-4.48	10.75
2420	-2.39	18.48	-4.3	11.01
2430	-2.35	19.67	-4.2	11.39
2440	-2.27	21.27	-4.21	11.85
2450	-2.25	22.88	-4.4	12.24
2460	-2.23	24.63	-4.6	12.58
2470	-2.18	26.11	-4.76	12.76
2480	-2.12	26.78	-4.81	12.57

Passive pattern of BT antenna for L&R

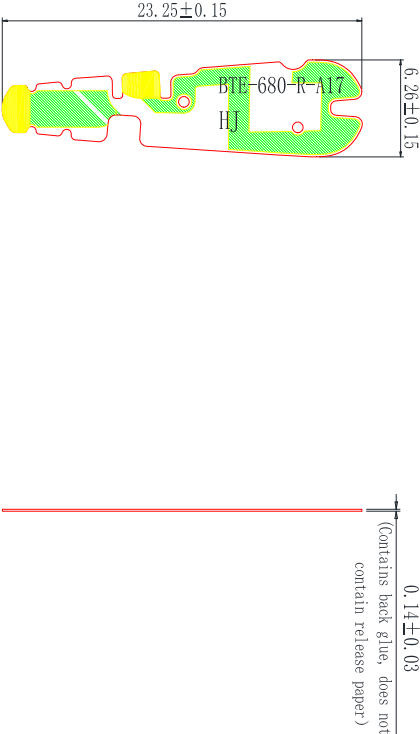
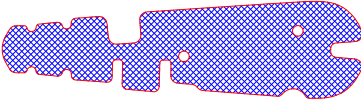


2: Structure diagram

Left



Right

A		B		C		D		E		F		G																																																																																												
Environmentally friendly RoHS 2.0										Version		Date		Change Description																																																																																										
										A17		2024-1-29		Add touch area on A16 version																																																																																										
1																																																																																																								
2																																																																																																								
3																																																																																																								
4	Vertical view End view Bottom view																																																																																																							
5	NOTES: 1.  The green part is made of copper;  Blank is the base material; 2.  The yellow part is the gold-plated area;  Blue is the adhesive area; 3. The die can not hurt the line, and the gold-plated area should be connected with the line; 4. The surface should not have dirt, scratches, black spots, breakage and falling off after gold plating; 5. Material: FPC single panel [PI(ED) a pair of half substrate (0.063mm) + adhesive (3M 9471 0.05mm) + The surface is covered with half to half black film]; 6. The back glue is 3M 9471; 7. Gold finger surface gold-plated (thickness: ≥1μ"), no oxidation phenomenon (salt spray test required); 8. After 48±1 hours of salt spray test, there were no corrosion points on the surface and the coating fell off; 9. The front screen print is in bright white font. The screen print position and font size are shown in the figure; 10. Mark * as the key dimensions, please check according to standard tolerances if not marked; 11. Meet our RoHS, Reach, halogen-free requirements.																																																																																																							
6	<table><tr><td colspan="2">Electrical performance:</td><td colspan="2">TOLERANCE TABLE</td><td colspan="2">APPROVED:</td><td colspan="2">PRODUCT NAME:</td><td colspan="2">FPC</td><td colspan="3" rowspan="3"> 深圳市宇鸿实业有限公司 Shenzhen Yuhong Industrial Co., Ltd</td></tr><tr><td colspan="2">1、test the continuity of the circuit</td><td colspan="2"></td><td colspan="2">MAO LU PING</td><td colspan="2">PRODUCT NUMBER:</td><td colspan="2">BTE-680-R</td></tr><tr><td colspan="2">2、conductivity: 35-58m/(Ω•mm²)</td><td colspan="2"></td><td colspan="2">LONG TAO</td><td colspan="2">CUTTING TECHNOLOGY:</td><td colspan="2">HALF CUTTING PROCESS</td></tr><tr><td colspan="2">Physical and chemical properties:</td><td colspan="2"></td><td colspan="2">DRAWING:</td><td colspan="2">VERSION</td><td colspan="2">PROPORTION</td><td colspan="2">PAGE SIZE</td><td colspan="2">PAGE NUMBER</td></tr><tr><td colspan="2">1、The golden finger should not have oxidation phenomenon (salt spray test is required)</td><td colspan="2"></td><td colspan="2">YU JIANG BO</td><td colspan="2">A17</td><td colspan="2">1:1</td><td colspan="2">By Graph zoom</td><td colspan="2">1/1</td></tr><tr><td colspan="2">2、After 48 ± 1 hour of salt spray test, there are no corrosion points on the surface and the coating is not peeling off.</td><td colspan="2">UNIT: mm</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2"></td><td colspan="2">A</td><td colspan="2">B</td><td colspan="2">C</td><td colspan="2">D</td><td colspan="2">E</td><td colspan="2">F</td><td colspan="2">G</td></tr></table>													Electrical performance:		TOLERANCE TABLE		APPROVED:		PRODUCT NAME:		FPC		 深圳市宇鸿实业有限公司 Shenzhen Yuhong Industrial Co., Ltd			1、test the continuity of the circuit				MAO LU PING		PRODUCT NUMBER:		BTE-680-R		2、conductivity: 35-58m/(Ω•mm ²)				LONG TAO		CUTTING TECHNOLOGY:		HALF CUTTING PROCESS		Physical and chemical properties:				DRAWING:		VERSION		PROPORTION		PAGE SIZE		PAGE NUMBER		1、The golden finger should not have oxidation phenomenon (salt spray test is required)				YU JIANG BO		A17		1:1		By Graph zoom		1/1		2、After 48 ± 1 hour of salt spray test, there are no corrosion points on the surface and the coating is not peeling off.		UNIT: mm														A		B		C		D		E		F		G	
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