

产品规格说明书
PRODUCT SPECIFICATION

产品名称：
PRODUCT NAME

产品编码： JL12
PRODUCT NUMBER

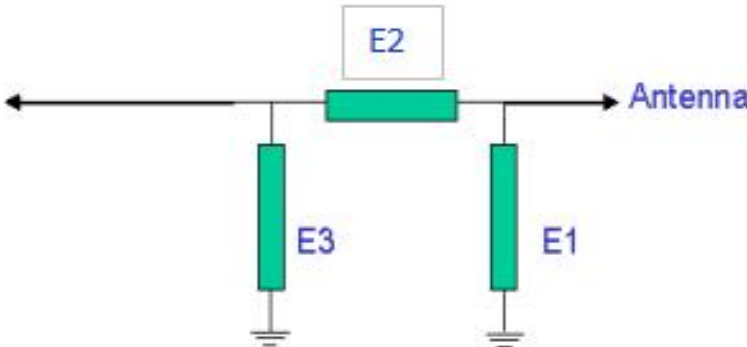
客户编码：
CUSTOMER NUMBER

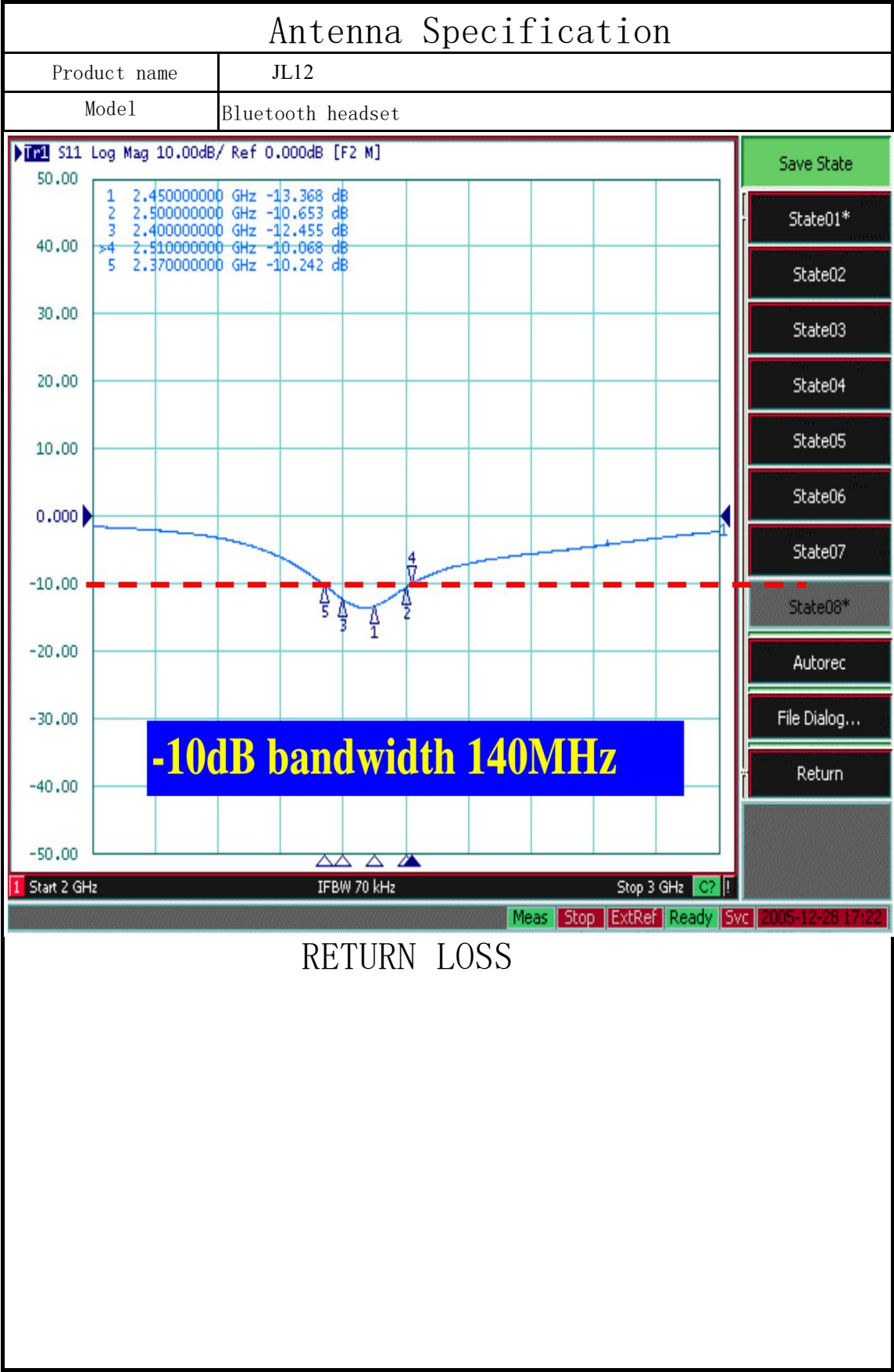
SHENZHEN HXD COMMUNICATION TECH CO., LTD.

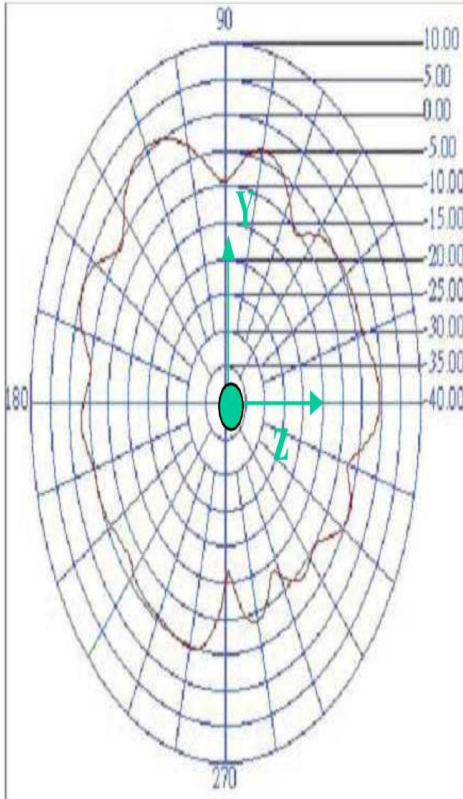
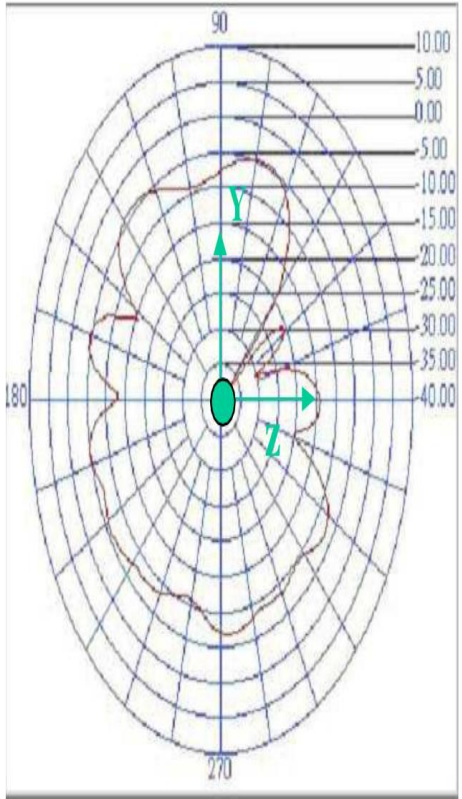
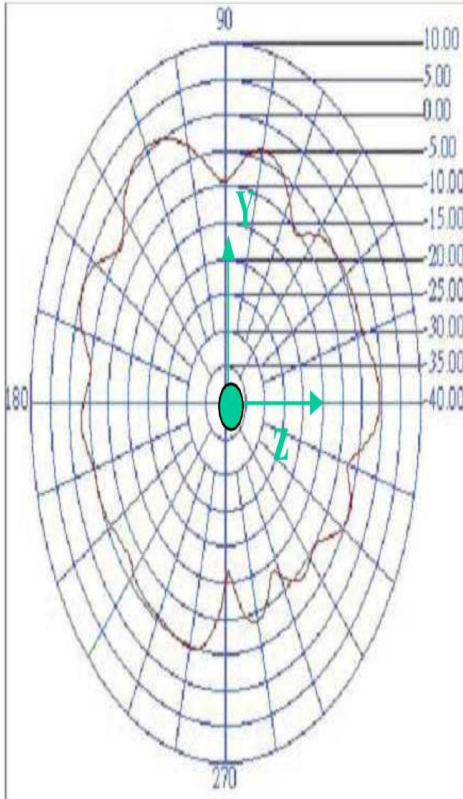
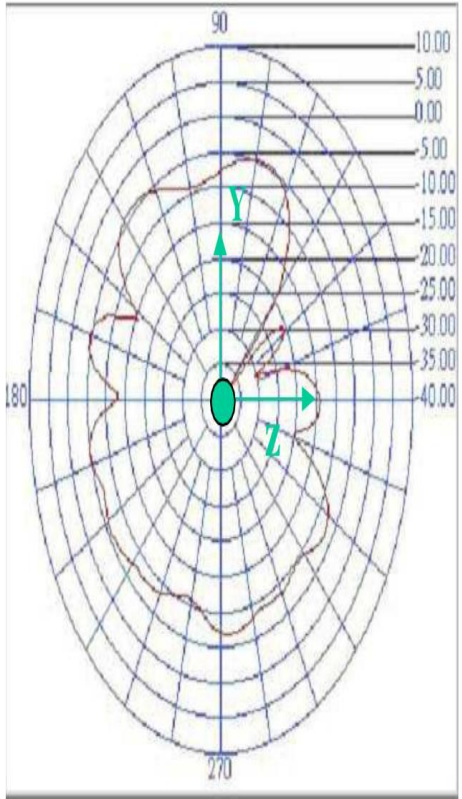
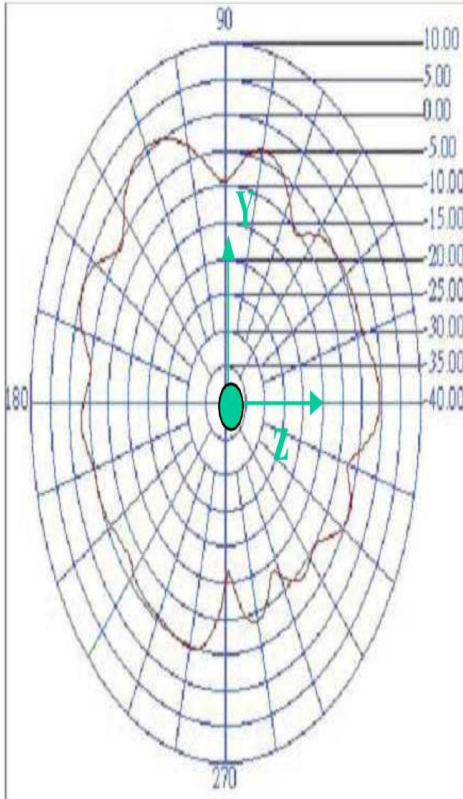
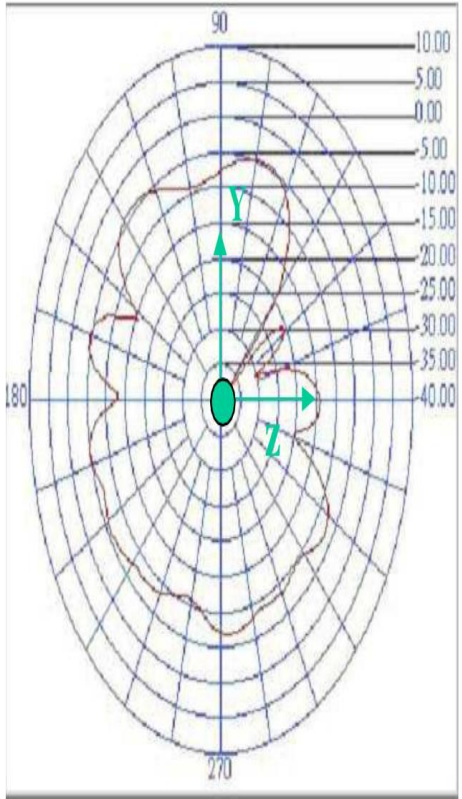
Room 301, No. 8, Sanhe Overseas Chinese District 2, Tongsheng Community,
Dalang Sub-district, Longhua District, Shenzhen City

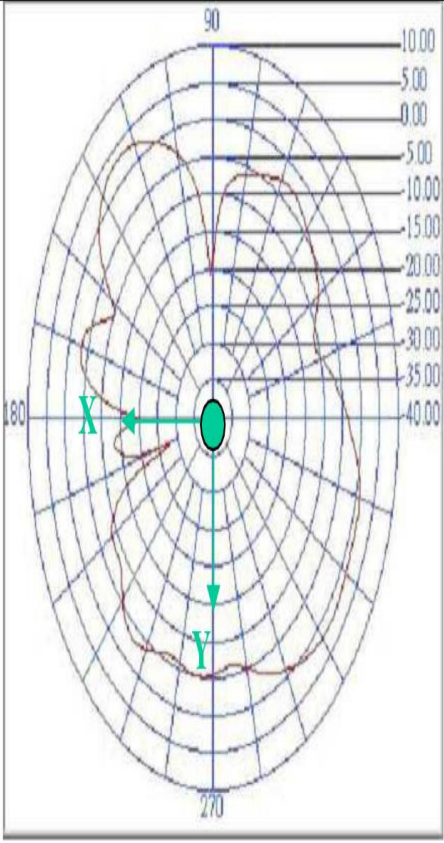
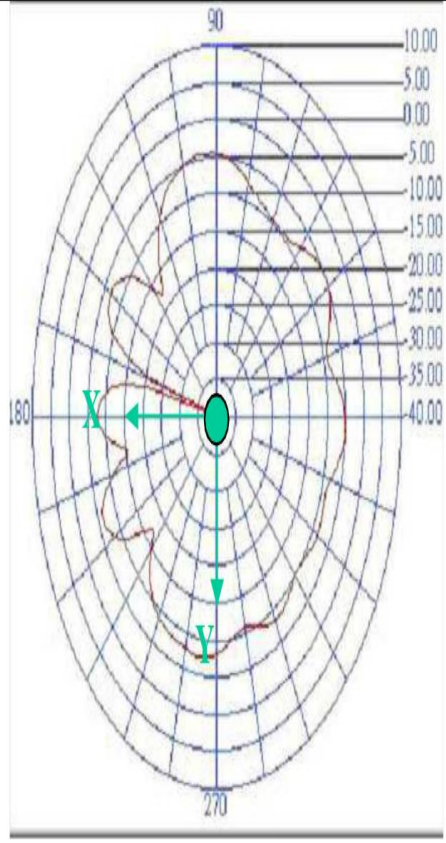
TEL:0755-61123122 FAX:0755-61123480

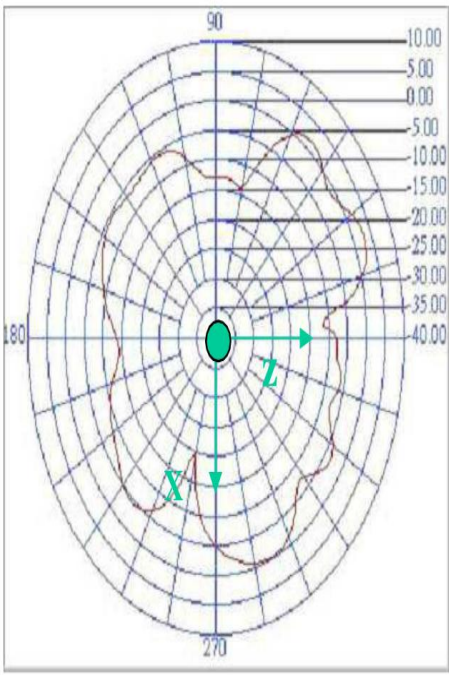
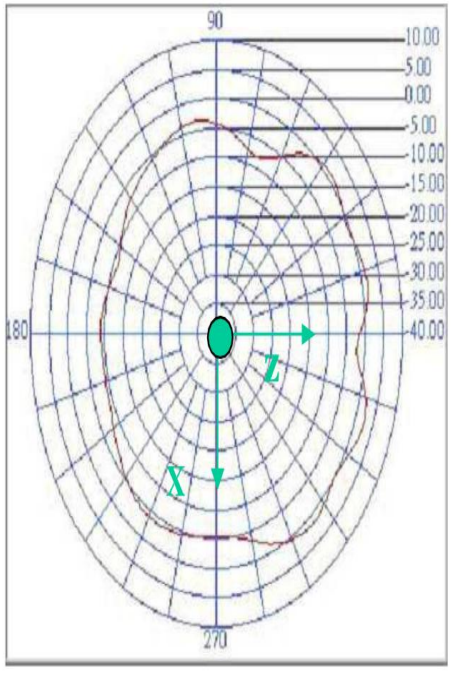
Antenna Specification		
Product name		JL12
Model		Bluetooth headset
	1. Bandwidth	2.402GHz ~2.480GHz
	2. Input impedance	50 Ω
	3. VSWR	
		2. 402GHz ~2. 480GHz 1. 5以下
	4.GAIN	2. 402GHz ~2. 480GHz GAIN=3. 19dBi (Typical)

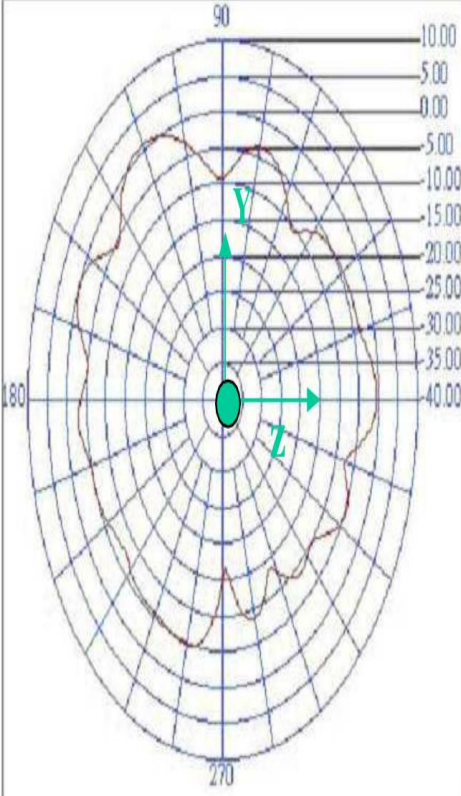
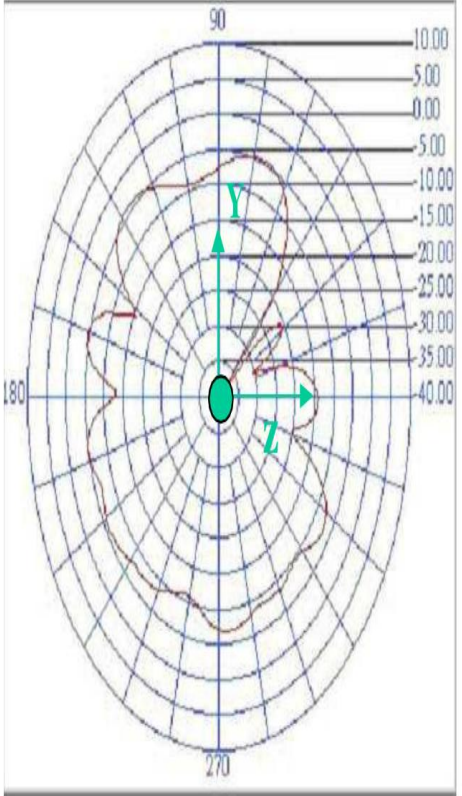
Antenna Specification															
Product name	JL12														
Model	Bluetooth headset														
BLUE TOOTH ANTENNA  Matching instructions <table><tr><td>E1</td><td>1.8PF</td><td>1.8PF</td></tr><tr><td>E2</td><td>8.2PF</td><td>OR</td></tr><tr><td>E3</td><td>NC</td><td>NC</td></tr><tr><td></td><td>Left</td><td>Right</td></tr></table>				E1	1.8PF	1.8PF	E2	8.2PF	OR	E3	NC	NC		Left	Right
E1	1.8PF	1.8PF													
E2	8.2PF	OR													
E3	NC	NC													
	Left	Right													

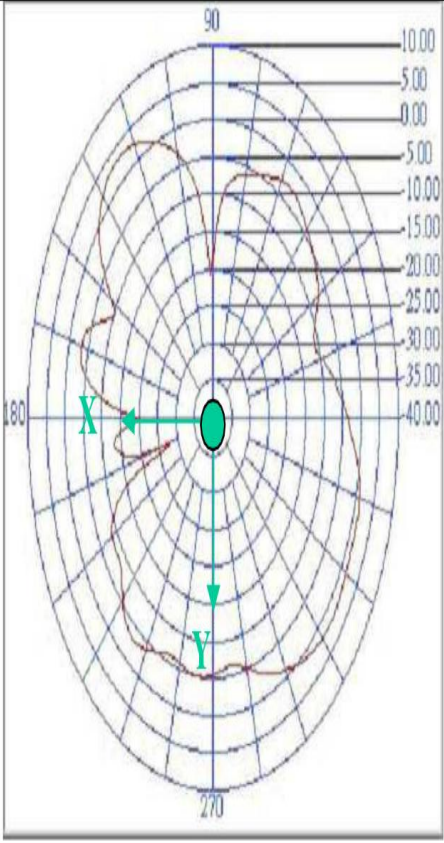
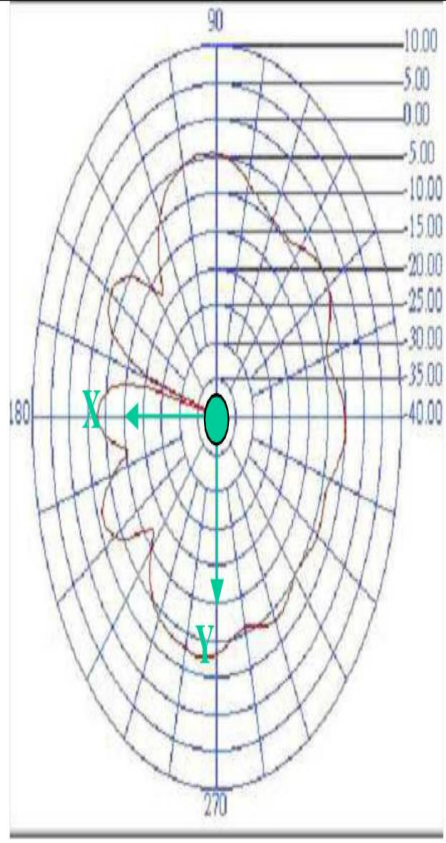


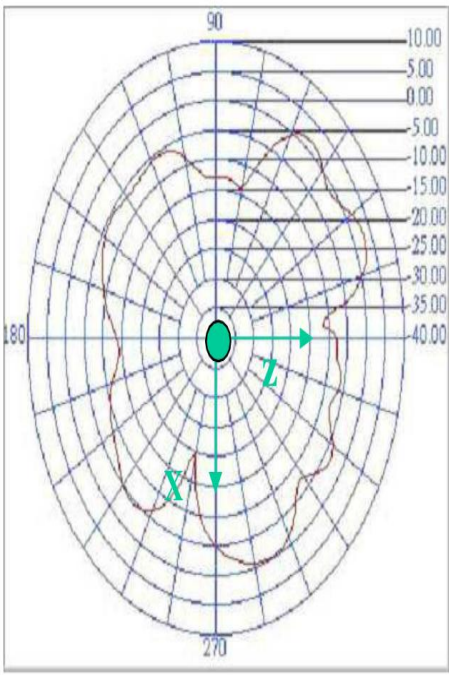
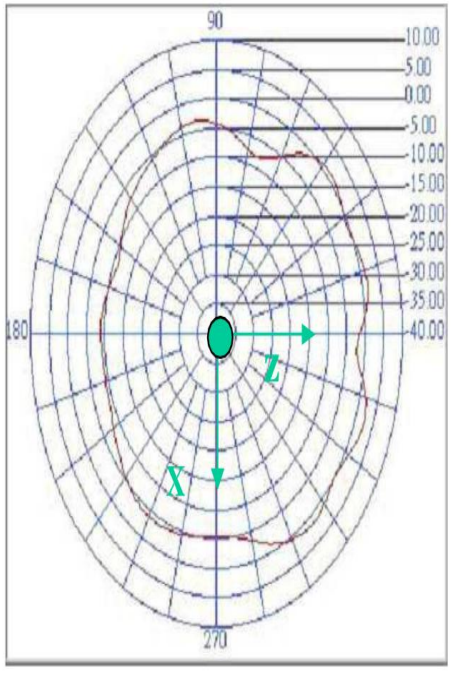
Antenna Specification							
Product name	JL12						
Model	Bluetooth headset(Left)						
	<table><tr><th></th><th>Horizontal</th><th>Vertical</th></tr><tr><td> Y - Z Plane Average Gain=-3.185 dBi </td><td>  Peak Gain = 0.95dBi Average Gain = -4.26 dBi </td><td>  Peak Gain= -4.05dBi Average Gain=-8.03 dBi </td></tr></table>		Horizontal	Vertical	Y - Z Plane Average Gain=-3.185 dBi	 Peak Gain = 0.95dBi Average Gain = -4.26 dBi	 Peak Gain= -4.05dBi Average Gain=-8.03 dBi
	Horizontal	Vertical					
Y - Z Plane Average Gain=-3.185 dBi	 Peak Gain = 0.95dBi Average Gain = -4.26 dBi	 Peak Gain= -4.05dBi Average Gain=-8.03 dBi					
Left Y-Z PLANE							

Antenna Specification	
Product name	JL12
Model	Bluetooth headset(Left)
X - Y Plane Average Gain= -1.543 dBi	 Peak Gain= 3.19 dBi Average Gain= -2.65 dBi
	 Peak Gain= -4.48 dBi Average Gain= -8.02 dBi
Left X-Y PLANE	

Antenna Specification	
Product name	JL12
Model	Bluetooth headset(Left)
X - Z Plane Average Gain= -0.99 dBi	 Peak Gain= 3.05 dBi Average Gain= -4.10dBi
	 Peak Gain= 2.49 dBi Average Gain= -2.47 dBi
Left X-Z PLANE	

Antenna Specification		
Product name	JL12	
Model	Bluetooth headset(Right)	
	Horizontal	Vertical
Y-Z Plane Average Gain=-3.581 dBi	 Peak Gain = 0.65dBi Average Gain = -4.29 dBi	 Peak Gain= -4.35dBi Average Gain=-8.33 dBi
Right Y-Z PLANE		

Antenna Specification	
Product name	JL12
Model	Bluetooth headset(Right)
X - Y Plane Average Gain= -1.343 dBi	
	Peak Gain= 3.19 dBi Average Gain= -2.25 dBi
	
	Peak Gain= -4.68 dBi Average Gain= -8.42 dBi
Right X-Y PLANE	

Antenna Specification	
Product name	JL12
Model	Bluetooth headset(Right)
X - Z Plane Average Gain= -0.99 dBi	 Peak Gain= 3.00 dBi Average Gain= -5.10dBi
	 Peak Gain= 2.44 dBi Average Gain= -2.97 dBi
Right X-Z PLANE	

Antenna Specification

Product name

JL12

Model

Bluetooth headset

JL12-L

注:

1: 表面沉金 2μ

1: 布铜区域

2: 基材区域

2: 附胶区域

型号: JL12-L 表面过黑油, 丝印亮白色字码

1: 铜区域		
2: 基材区域		
2: 附胶区域		
3、铜箔厚度3M 300 LSE，制程在300MP以上，无铜箔减材，铜箔外边沿减材一端，要在基材位置；		
4、材料厚度范围，铜箔为半铜半基材，底部性更好；		
5、产品重量后能150°折弯表面无厚度减损，底部材料好；		
6、全铜箔在折弯后5~5μ，不可有厚度减损，以折弯侧减材，能180°折弯之后无减损，不有厚度减损侧不可减损；		
7、全铜箔在折弯后公差范围±0.03mm，外形尺寸公差范围0.1mm以内；		
8、铜箔尺寸精度A级电子制程±1mm；		
9、全铜箔在折弯后表面厚度无减损，折弯后无减损，折弯后无减损侧一端，要在铜箔外边沿位置铜箔厚度减损；		
10、铜箔在折弯，折弯侧铜箔厚度之公差，在折弯侧减损；		
11、表面处理，表面处理位置位置		

深 圳 市 恒 信 达 通 讯 科 技 有 限 公 司						
 第三角法		机 种	JL12-L	日期	2024-08-29	
未注公差参照标准		品 名	FPC	设计	SR	
10以下	±0.05		0.02	料 号	工程	
10~20	±0.08		0.02	材 质	审核	
20~40	±0.10		0.04	模面处理	确认	
40以上	±0.15		0.02			

JL12-R

注:

1: 表面沉金 2μ

1: 布铜区域

2: 基材区域

2: 附胶区域

型号: JL12-R 表面过黑油, 丝印亮白色字码

注：

1：表面沉金 2μ

型号: JL12-R 表面过黑油, 丝印亮白色字码

1： 寄铜区域

2： 蒸材区域

2： 附胶区域

3、微蚀法选用 300 LSE，微蚀在300MP以上，无微蚀现象，微蚀件要与基材一致，微蚀在基材背面；

4、材料厚度、微蚀后平均厚度、氧化层厚；

5、产品表面经180°折弯表面无裂纹现象，无氧化层；

6、产品表面经180°折弯表面无裂纹现象，无氧化层，经180°折弯之后无裂纹，无氧化层，经180°折弯后可不裂纹；

7、外观尺寸公差范围 ±0.03mm，外形尺寸公差范围 ±0.1mm 以内；

8、板厚尺寸公差范围 ±0.03mm；

9、无开焊、漏焊、短路、断路、无焊锡、无焊