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Source Control Drawing

Part Description:	Bluetooth TWS headset	
客户料号:		
客户规格描述:		
iTD Part Number:	iS.00195	
iTD Software version		
iTD Hardware version	XHY-R1330-L-V2.0	

Customer Approval (Please return this copy as a certification of your approval)		
Approved by:		
Approval Date:		
Company Seal:		

PROPRIETARY NOTICE	iTD Contact Information:
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	Mb: 15060807099
herein, are proprietary and are not to be reproduced,	Email: ljw@itdtek.com
used or disclosed to others for manufacture or for any	Add: RongChenDaChuang building room 302, Dabao Road, Xin 'an Street 28, Bao An District,
other purpose, except as specifically authorized, in	Shenzhen City 地址:深圳市宝安区新安街道隆昌路高新奇二期2号
writing, by iTD Corporation.	俊605

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Number	Effective date	Change record		
V2.0	2024-10-12	I	nitial release	
	编制	工程	审核	

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-, The basic parameters:

A. Electrical Characteristics		
Frequency	2400MHZ~2500MHZ	
VSWR	< 3.0	
Avg Efficiency	>8%	
Impedance	50 ± 25 Ohm	
Polarization	Linear	
Peak Gain	2.4G:-4.02dBi	
B. Material & Mechanical Characteristics		
Material of Radiator	FPC black	
Cable Type	/	
Connector Type	/	
Dimension	1	
C. Environmental	r	
Operation Temperature	- 20 °C ~+ 60 °C	
Storage Temperature	- 30 °C ~+ 70 °C	

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\Box 、 Electrical Specification :

Those specifications were specially defined for <u>R1330-L</u> model.

三、VSWR

1 Measuring Method

1.A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected

to a network analyzer to measure the VSWR

2.Keeping this jig away from metal at least 20cm

2 Measurement frequency points and VSWR value



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四、 Anechoic chamber

Introduction:

Microwave darkroom and no reflection chamber, absorbing short wave darkroom dark room. Microwave darkroom by electromagnetic shielding room, filtering and isolation, grounding device, the ventilation duct, indoor distribution system, monitoring system, ceiling wave material part. It is based on the wave absorbing material as the lining of the shield room, it can absorb the most of the electromagnetic energy into the six wall is a better simulation of the free space conditions.

The main working principle of microwave anechoic chamber is according to the

electromagnetic wave in the medium from the low magnetic guide magnetic direction of propagation rules, absorbing materials to guide the electromagnetic wave using high permeability, through resonance, a substantial absorption of electromagnetic wave radiation energy, by coupling the electromagnetic energy into heat energy.

main performance

Frequency range:400MHz ~ 6GHz ceiling reflected wave loss materials: 400MHz ~ 6GHz is equal to or more than 15dB (microwave absorbing material by composite wave absorbing materials, namely tapered containing carbon sponge suction wave material paste in ferrite)





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五、Gain table of Antenna



Passive efficiency gain

L		
Freq (MHz)	Gain (dBi)	Effi(%)
2400	-6.11	11.75
2410	-5.68	12.75
2420	-5.5	13.73
2430	-5.03	14.39
2440	-4.4	14.76
2450	-4.02	14.83
2460	-4.04	14.31
2470	-4.42	13.13
2480	-5.02	11.56
2490	-5.72	10.19
2500	-6.59	8.78

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Active Free Space Field Pattern Diagram-L -TRP



Active Free Space Field Pattern Diagram-L -TIS



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There is a source mode field diagram-L -TRP



There is a source mod<mark>e field diagram-L</mark>-TIS



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<mark>OTA Acti</mark>ve

L						
	自由空间		头模			
BAND	TRP (dBm)	TIS (dBm)	BAND	TRP (dBm)	TIS (dBm)	
0	1.23	-84.84	0	-0.34	-83.78	
39	3.96	-84.13	39	2.12	-82.78	
78	4.22	-86.72	78	2.07	-84.99	

六: Machine Picture:



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\mathbf{r}	-	七、 、	-	Ant	tenna	Dim)	ensions 	=	(
-		9、禾汁银产品引将外炒番裂用 10、所未非钱样,番蛋切油纸 11、表面印字,具体内容及位	、 たい人が清朝点を相同: エ 8、 未存住尺寸按CAD电子面档	5、产品覆油后经180° 新考表 6、金手指表面被沉全3°50°,不 7、主体及对输血公共软间++	1: 布铜区域 2: 基材区域 3. 制动用型 20028, 制的 5. 制动用型 20028, 制的 5. 制动用型 20028, 制的 5. 利动用用型 20028, 制的	1: 金手指 沉金	Η̈́	;		–
2		相象尤切到,刘杲用于工切到, 外形之后,在选样到我词; 重见周		面无要填現象,柔韧性要好; 可有氧化現象,以稠物相接处。 0.02—— 从丧日十个主动和在		US				63
లు		要往这外炒卖切到 能一些,也		… 图180° 新考之后元秦集、不导到 1.1—1214.	妙形与基材一致,要在基材情冒 好。					دى
4		」计表产品打秤外炒着受用表具		动机,非教 样可不电使;	ñ, noù ta: FP(11.09±0.15	10	
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	クロの2機	→		和亮白色 ⁵				51		
		日本 50 月 日 10 月	を 客 R	首 昭 孝	四四					
<u>****</u> 7	金30 确认 # Ab	(-L-TH) 以り +/3000背腋 */3000背腋	1330 日期	拔有限、						7
8 / T:T 6414 mm		L.程 Helen 外频 肖谭平	2024-08-31 页码 Tealon 由埃	년 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
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八、ROHS:

Antenna <u>NZ. 01. 0000150</u> meets RoHS requirements.

九、 Product packaging instructions:

A. packing should meet the moistureproof, vibration, pressure and mildew proof, etc.

B. the smallest packing unit logo must have the manufacturer

trademarks, product model, name, code and quantity.

C. in the attached packing list, certificate of approval, and the factory inspection report.