

APPRO

版本: A1

:

DESCRIPTION: 2.4G Antenna-L200mm

PART NO.: YS030-0105

CUS PART NO.:

DATE: 2024-12-23

ADDRESS.: Room 303, Building A, No. 164 Junxin Road,
Guanlan Street, Longhua District, Shenzhen
City, Guangdong Province

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT

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ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

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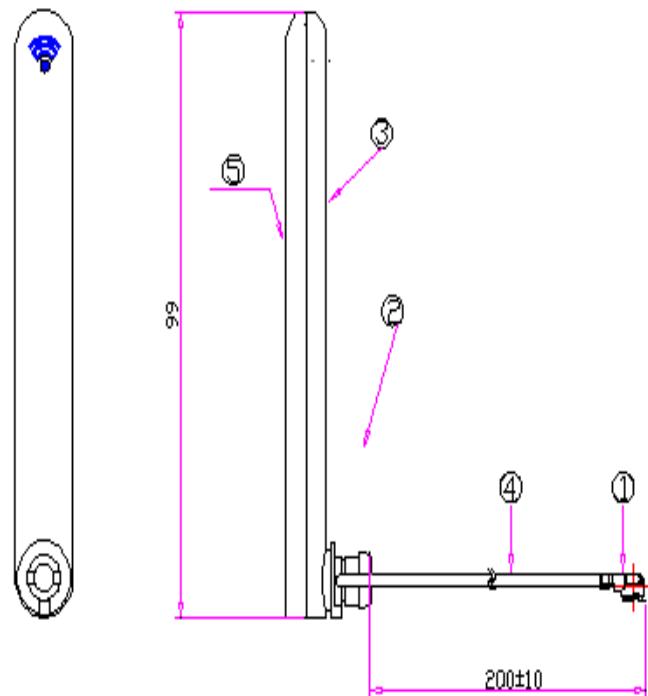
Electrical Specifications

Frequency Range	2400-2483.5MHZ
VSWR	≤ 2.0
GAIN	2.5DBI
Input Impedance	50 Ω
Mechanical Specifications	
Antenna Color	WHITE
Input connector	IPEX1.13
Cable length	200mm
Working Temperature	-40°C ~+85°C
Working Humidity	20~80%

(Product picture) :



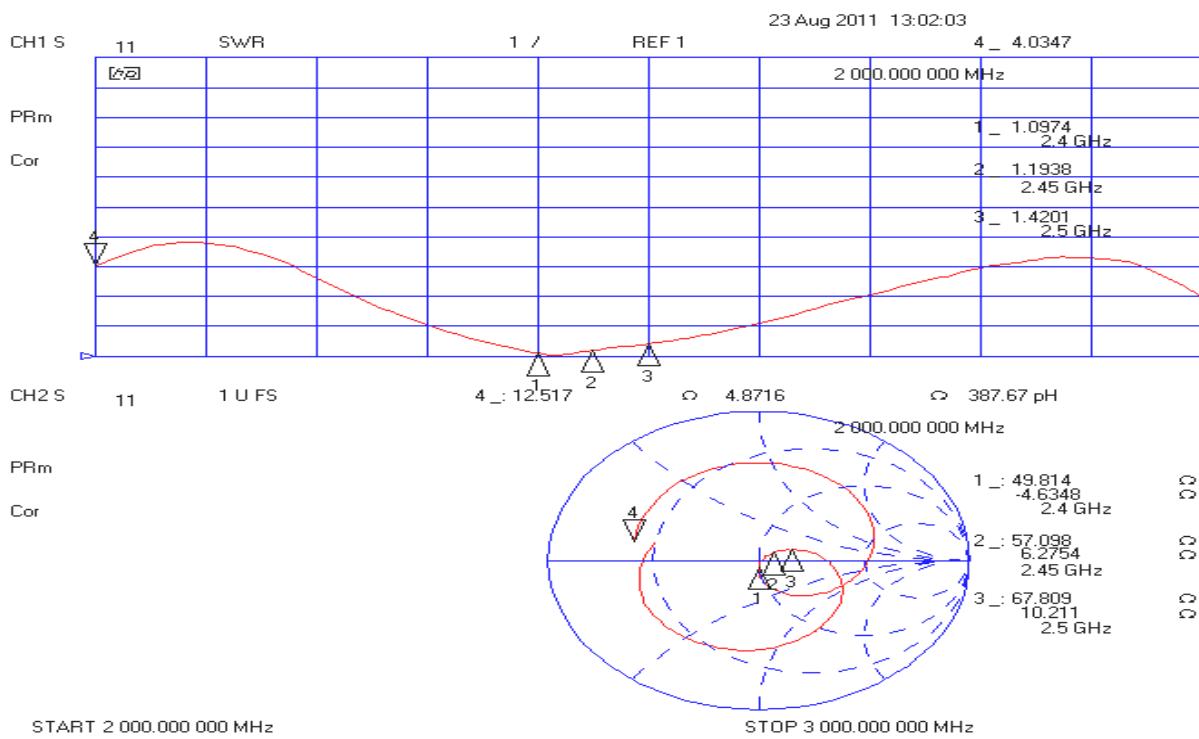
(Product Specification) :



(Environmental performance test) :

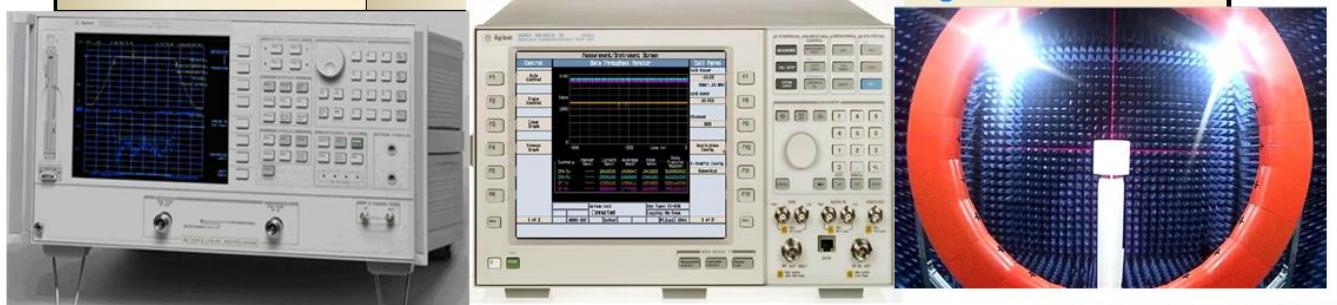
ITEM	TEST CONDITION	TEST RESULT
The storage environment	<p>In the absence of the specified circumstances test temperature, humidity, air pressure is as follows:</p> <p>1 temperature is -30 °C ~ +80 °C</p> <p>2 relative humidity for 45%-85%</p> <p>The 3 pressure is 86kpa-106kpa</p>	Electrical and mechanical properties of normal
Thermocycling ;	<p>5 cycles between 70 °C and 40 °C, then under normal conditions</p> <p>1-2H, appearance quality inspection.</p>	<p>Dimensions should meet the requirements and shall satisfy</p> <p>In the mechanical, electrical properties</p>
Resistance to damp heat Test	<p>Relative humidity is 95 ± 3%, test temperature: 40 °C. Continue after 2H,</p> <p>Test within the product after removing the 5min determination of the electrical properties, in the normal sample</p> <p>Under 1-2H, the appearance of quality inspection</p>	<p>Dimensions should meet the requirements and shall satisfy</p> <p>In the mechanical, electrical properties</p>
vibration test ;	<p>Displacement amplitude of vibration frequency range: 10-55HZ, 0.35MM, the amplitude of acceleration: 50.0M/S, sweep cycle times: 30 times</p>	Electrical and mechanical properties of normal
fall-down test ;	1M high altitude in accordance with the perpendicular axis free fall 3	Electrical and mechanical properties of normal

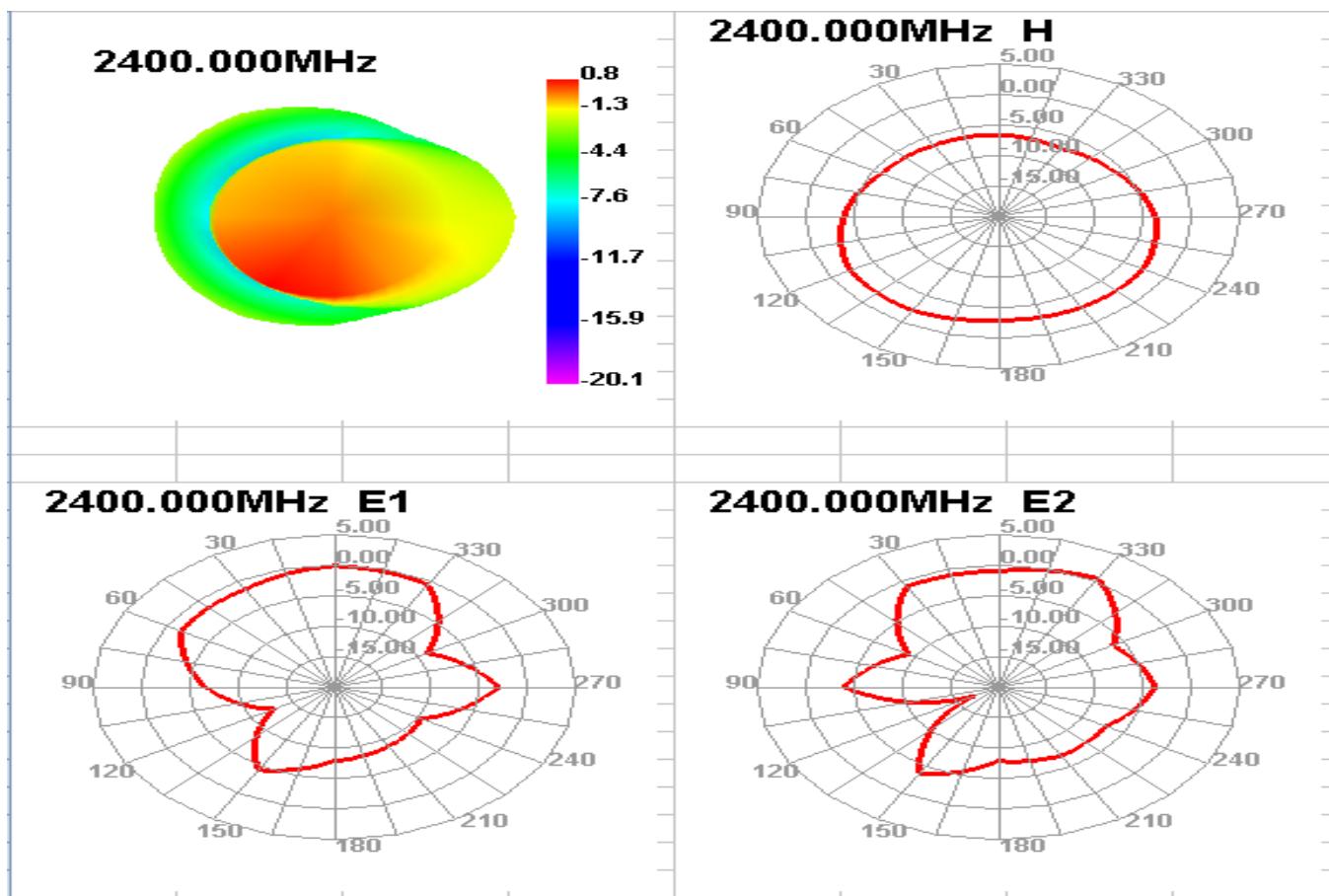
(Agilent network analyzer test chart) :



(Gain-Tset) :

	测试项目	设备
1. S参数	1. 回波损耗 2. 驻波比	网络分析仪: Agilent E5071B
2. 耦合功率测试	1. 发射功率 2. 接收灵敏度	GSM 测试仪: Agilent 8960 E5515C LTE /WIFI/BT测试仪: R&S CMW500
3. 辐射模式与增益	1. 辐射模式 2. 天线增益	1. 暗室: 8x4x4 m (3D) 2. 网络分析仪: Agilent E5071B





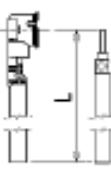
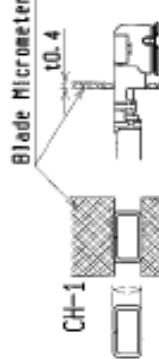
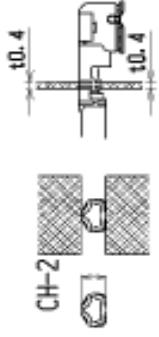
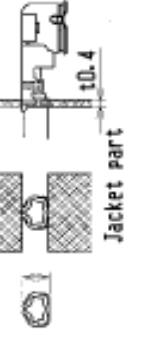
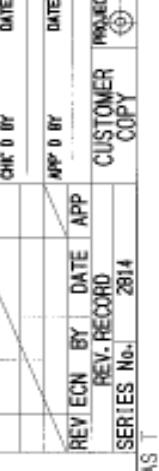
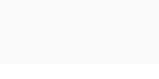
Passive Test For 2.4-5.8										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenuat Hor	Attenuat Ver
2200	33.96	-4.69	-0.38	-2.53	20.318	13.645	-0.38	-20.54	44.82	43.93
2250	41.03	-3.87	0.11	-2.04	24.423	16.604	0.11	-18.71	45.23	44.53
2300	37.92	-4.21	0.1	-2.05	23.408	14.512	0.1	-21.08	45.78	45.31
2350	37.41	-4.27	-0.07	-2.22	22.677	14.729	-0.07	-19.21	46.38	45.92
2400	34.11	-4.67	0.79	-1.36	22.873	11.234	0.79	-20.1	46.87	46.67
2450	34.91	-4.57	0.82	-1.33	26.498	8.41	0.82	-20.44	47.72	47.63
2500	37.35	-4.28	1.35	-0.8	30.749	6.6	1.35	-16.56	47.75	47.52
2550	33.02	-4.81	0.64	-1.51	28.059	4.962	0.64	-19.86	47.22	46.83
2600	43.64	-3.6	1.28	-0.87	36.884	6.755	1.28	-17.04	47.84	47.56
2650	46.2	-3.35	1.43	-0.72	38.444	7.758	1.43	-16.52	48.18	48.08
2700	43.25	-3.64	0.9	-1.25	35.536	7.714	0.9	-16	48.52	48.56
2750	43.27	-3.64	0.74	-1.41	34.558	8.715	0.74	-14.41	49.05	49.21
2800	49.02	-3.1	1.01	-1.14	38.365	10.654	1.01	-13.09	49.69	49.92
2850	49.05	-3.09	0.49	-1.66	37.492	11.555	0.49	-12.68	49.92	49.65

Material Data Sheet

MHF Connector

PART NO.
20278-008

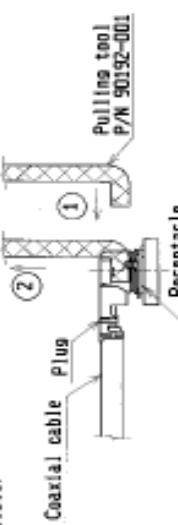
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Part No. of non halogen free type	20278-101R-00	20278-101R-13	20278-101R-32	20278-101R-32	20278-101R-32	20278-101R-18
Part No. of halogen free type	20278-102R-00	20278-102R-13	20278-102R-32	20278-102R-32	20278-102R-32	20278-102R-18
Housing color	White	Black	Black	Black	Black	White
Applicable cable nominal dimension	2.09±0.1, 1.25±0.1	2.09±0.1, 1.25±0.1	2.09±0.1, 1.25±0.1	2.09±0.1, 1.25±0.1	2.09±0.1, 1.25±0.1	2.09±0.1, 1.25±0.1
Jacket	Applicable cable outer diameter Nominal (ϕ 0.65) MGF617(0.65)	Applicable cable outer diameter Nominal (ϕ 0.81) MGF617(0.81)	Applicable cable outer diameter Nominal (ϕ 1.13) MGF617(1.13)	Applicable cable outer diameter Nominal (ϕ 1.32) MGF617(1.32)	Applicable cable outer diameter Nominal (ϕ 1.68) MGF617(1.68)	Applicable cable outer diameter Nominal (ϕ 1.93) MGF617(1.93)
P/N of hand Tool	90167-009C	90167-013C	90167-032C	90167-032C	90167-032C	90167-032C
P/N of seal auto termination machine	90213-008C	90213-013C	90213-032C	90213-032C	90213-032C	90213-032C
Sect. M-M	1.68	2.24	2.29	2.71	3.1	2.26
Sect. L-L	1.72	2.28	2.37	2.71	3.1	2.26
Crimp Height	CH-1 CH-2 CH-3	CH-1 CH-2 CH-3	CH-1 CH-2 CH-3	CH-1 CH-2 CH-3	CH-1 CH-2 CH-3	CH-1 CH-2 CH-3
Cable cut length						
						
						
						
						
						
						
						
						
						
						
						
						
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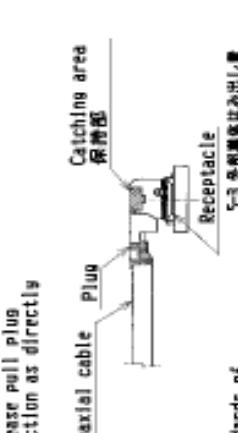
5-2 コネクタ取扱い

(1) リミング用いる場合
下端のぶら下さない
直角に引き出してください。

(1) In case of unmating by
pulling tool.
Please use the pulling
tool as the following drawing,
and please pull plug to
vertical direction as directly
as possible.



(1) リミング用いる場合
下端のぶら下さない
直角に引き出してください。
(2) コネクタ
工具として
直角に引き出してください。



(2) In case of unmating directly
by hand

Please catch the catching area
of plug, and please pull plug
to vertical direction as directly
as possible.

(2) 手で直接引き抜く場合
下端の斜面をつかんで
直角に引き抜いて下さい。

(2) 手で直接引き抜く場合
下端の斜面をつかんで
直角に引き抜いて下さい。

6. このコネクタは 'Pb-free'
である。

Notes

1. Material
(1) Housing : PBT, UL94V-0
phosphor bronze
gold plating 0.1 μ m MIN.
over nickel 1.27 μ m MIN.

(3) Ground contact
phosphor bronze
gold plating 0.05 μ m MIN.
over nickel 1.27 μ m MIN.

2. Packing : reel
3. Mating partner part No.
: 20279-001E-01, 20441-001E-01

4. Permissible load of cable at mating
: 20279-001E-01, 20441-001E-01

4. コネクタ仕様のケーブルに対する載荷量



5. Suggestions for mating & unmating operation.

5-1 Mating.
Please note the connector straightly
to vertical direction as much as
possible, adjusting the mating axis
of plug and receptacle,
As excessive slant angle mating may
break the connector, please don't
do it.

5. リミングから抜き差し方法の注意

5-1 コネクタ挿入時
PlugとReceptacleとの間に合巻きのせ、
できるだけ直角に挿入して下さい。
横巻き挿入は行わないで下さい。
コネクタ挿入の際と抜き差しの際、
斜めに引かないで下さい。

5-2 拡張チューブについて
の注意
チューブで外被導体
を覆う場合は、導体不良の
原因になりますので、直に
よりハーフツイグを剥離させ
いよう注意してください。

5-3 外被導体はめ出しが
外被導体はめ出しし量規定
: 外被導体トーラル半径
① 10%以上
(外被導体半径の外に
はめ出しが量)

5-4 拡張チューブについて
の注意
Please be careful not to melt
housing when using heat
shrinkage tubes.
It will become cause of open
circuit.

6. このコネクタは 'Pb-free'
である。

GENERAL TOLERANCE		APP. 0 BY		APP. 0 BY		APP. 0 BY		APP. 0 BY		APP. 0 BY		APP. 0 BY	
REV	ECN	BY	DATE	APP	BY	DATE	APP	BY	DATE	APP	BY	DATE	APP
6	OVER	MAX.	30	± 0.3									
30	OVER	MAX.	120	± 0.5									
		ANGLE	$\pm 2^\circ$										

FORM REV-4

I-PEX		Internat'l and Partner Electronics TOKYO, JAPAN	
TITLE		SHEET NO.	
WF series micro coaxial connector plug vertical (strand contact : solid plating)	General	UNIT	4/4 19C
REV	RECORD	CUSTOMER COPY	
20278	2B14		

WAS