



深圳市雨盛通讯电子有限公司

Shenzhen Yu Sheng Communications Electronics co., LTD

TEL: +86 0755-28640107 FLOOR 1-3, NO. 102, OUBAI ROAD FAX: +86 755 28694967
Oubai Village Shenzhen.

APPROVAL

版本: A1

SHEET

CUSTOMER:

DESCRIPTION:

2.4G Antenna-L120mm

PART NO.:

YS020-0036

CUS PART NO.:

D A T E:

2025-02-20

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT
JACK	LILY	MISS TIAN
田宏亮 TianHongLiang	田青 TianQing	田海容 TianHaiRong

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT



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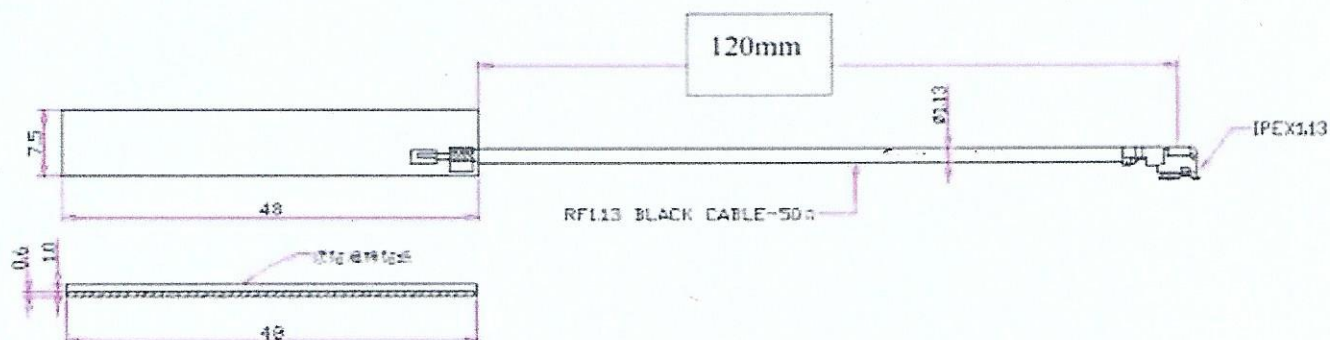
Floor 1-3, No. 102, Ouxi Road
Oubai Village Shenzhen

FAX: +86 755 28694967

(Product picture) :



(Product Specification) :





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(Environmental performance test) :

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

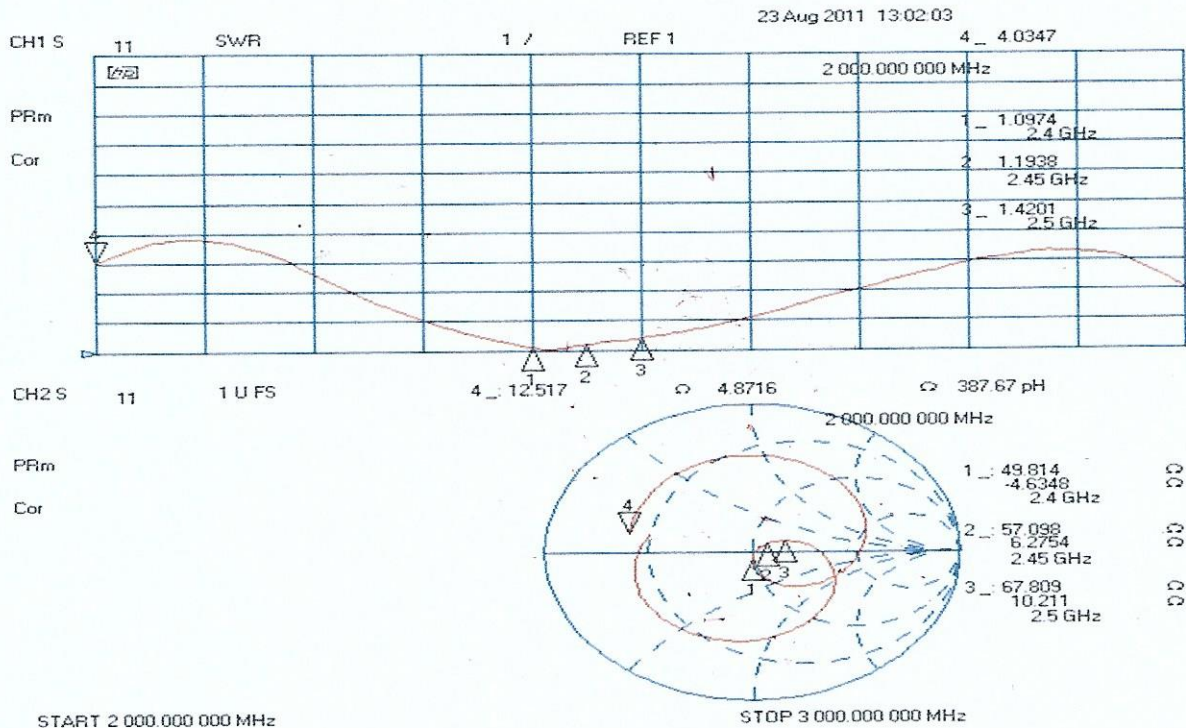


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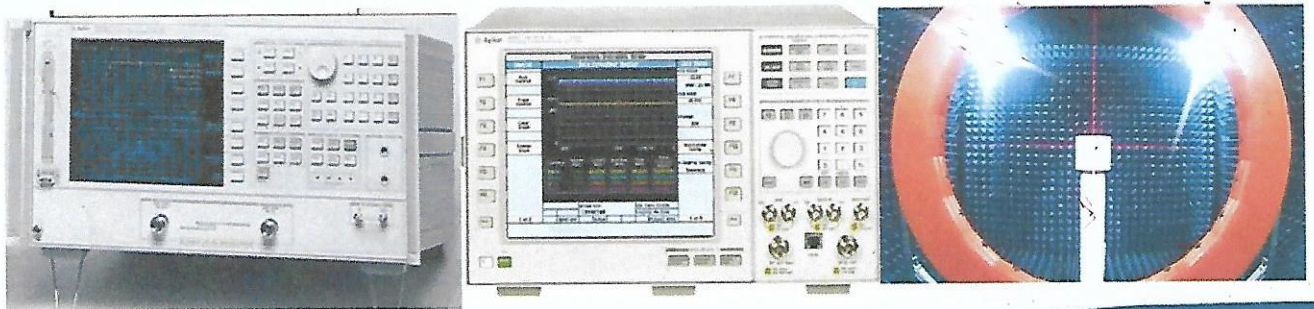
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(Agilent network analyzer test chart) :



(Gain-Tset):





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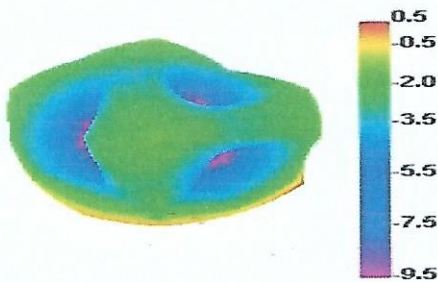
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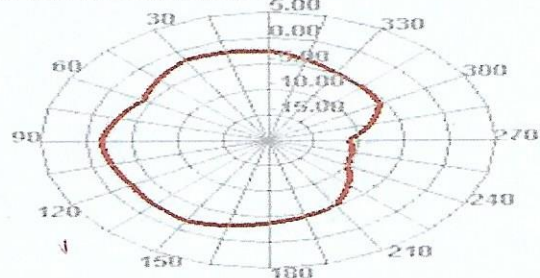
Floor-3, No. 102 Duxi Road
Dapai Village Shenzhen

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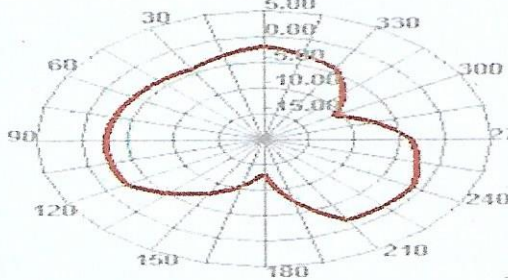
2400.000MHz



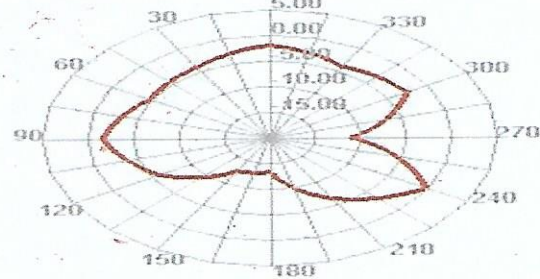
2400.000MHz H



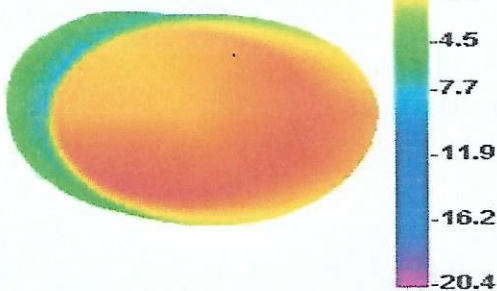
2400.000MHz E1



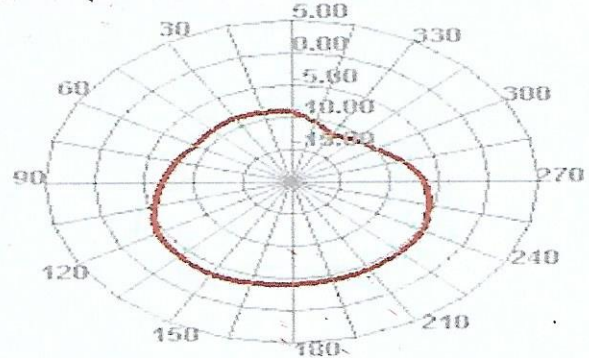
2400.000MHz E2



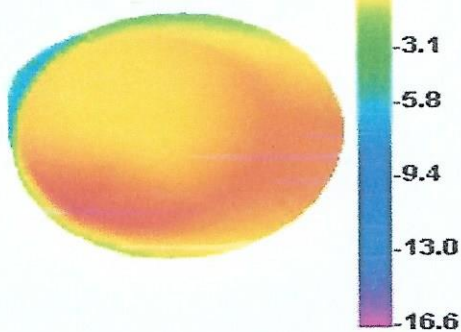
2450.000MHz



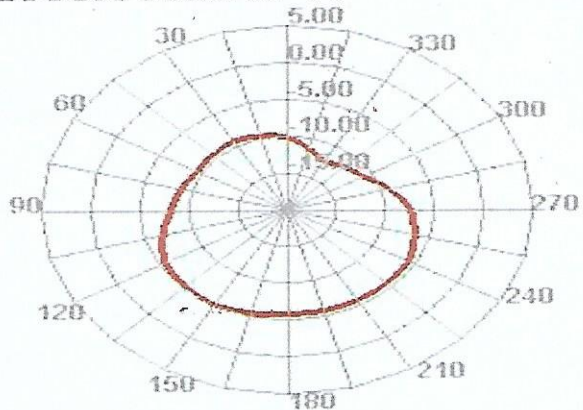
2450.000MHz H



2500.000MHz



2500.000MHz H





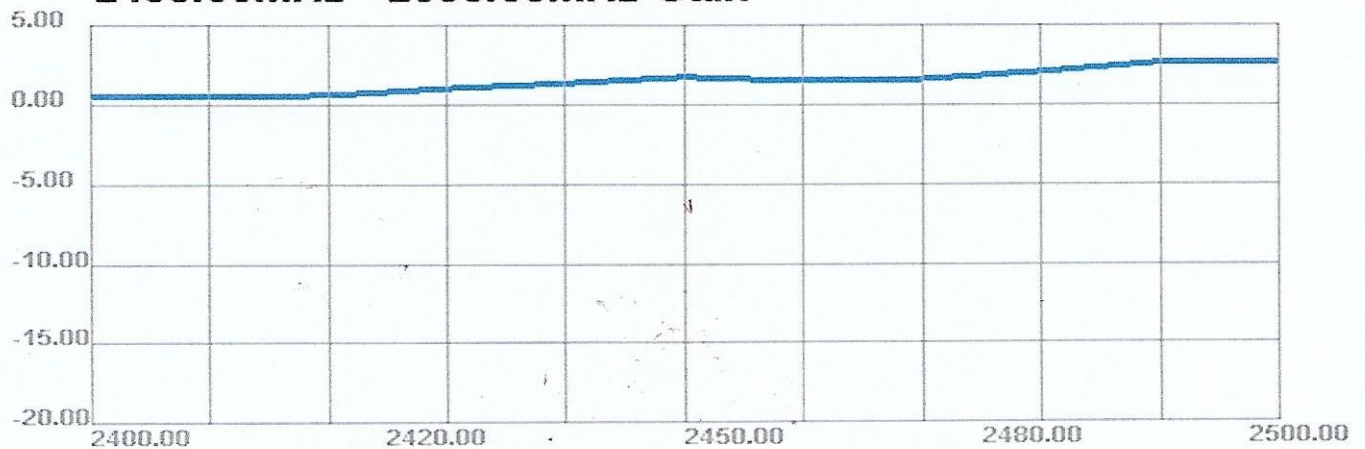
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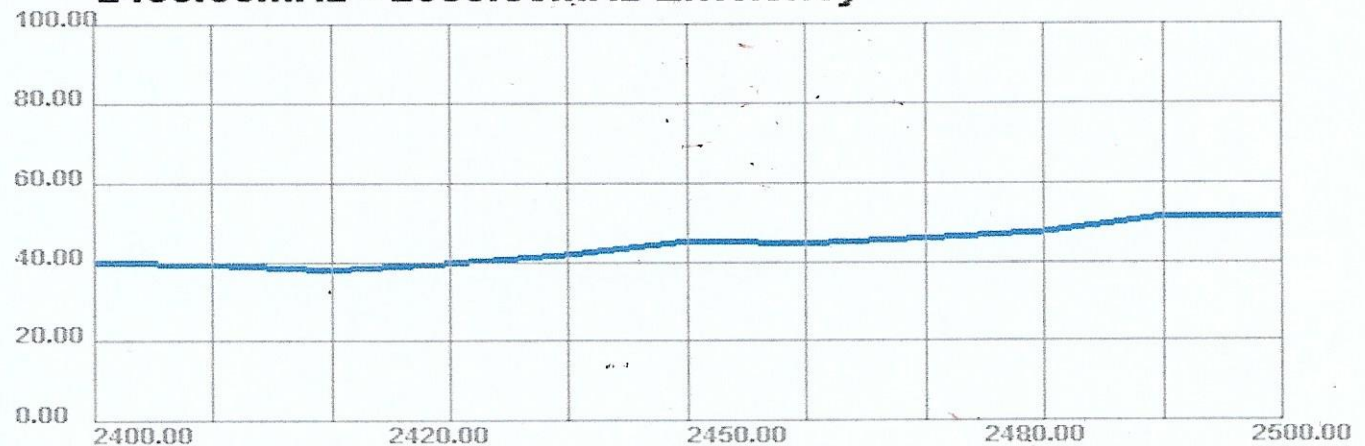
TEL: +86 0755-28640107 Floor 1-3, NO.102, Duxi Road
Qubai Village ShenZhen

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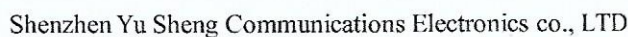
2400.00MHz - 2500.00MHz Gain



2400.00MHz - 2500.00MHz Efficiency



Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-2.69	-2.52	-2.23	-2.04	-1.95	-2.28	-2.44	-2.49	-2.60	-2.83	-2.45
Peak EIRP (dBm)	1.46	1.67	1.98	2.24	2.24	1.94	1.91	2.04	2.12	2.05	2.41
Directivity (dBi)	4.15	4.19	4.21	4.28	4.19	4.22	4.36	4.52	4.72	4.87	4.86
Efficiency (dB)	-2.69	-2.52	-2.23	-2.04	-1.95	-2.28	-2.44	-2.49	-2.60	-2.83	-2.45
Efficiency (%)	53.80	56.00	59.80	62.50	63.80	59.20	57.00	56.40	55.00	52.20	56.90
Gain (dBi)	1.46	1.67	1.98	2.24	2.24	1.94	1.91	2.04	2.12	2.05	2.41
NHPRP $\pm\pi/4$ (dBm)	-3.69	-3.36	-2.92	-2.52	-2.55	-2.92	-3.24	-3.47	-3.56	-3.59	-2.96
NHPRP $\pm\pi/6$ (dBm)	-4.35	-4.03	-3.59	-3.20	-3.23	-3.60	-3.92	-4.14	-4.22	-4.26	-3.65
NHPRP $\pm\pi/8$ (dBm)	-4.96	-4.64	-4.21	-3.82	-3.85	-4.21	-4.53	-4.75	-4.83	-4.88	-4.29
Upper Hem. PRP (dBm)	-5.17	-4.93	-4.58	-4.35	-4.22	-4.52	-4.66	-4.67	-4.76	-4.96	-4.55
Lower Hem. PRP (dBm)	-6.30	-6.22	-6.01	-5.89	-5.85	-6.22	-6.43	-6.51	-6.65	-6.93	-6.61
Upper Hem. PRP (%)	30.38	32.14	34.79	36.77	37.80	35.31	34.18	34.09	33.41	31.88	35.06
Lower Hem. PRP (%)	23.45	23.85	25.03	25.78	26.03	23.90	22.78	22.33	21.60	20.29	21.82



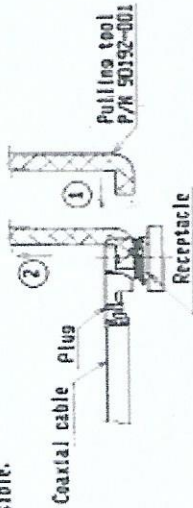
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FORM REV. 4

5-2 コネクタ仕様

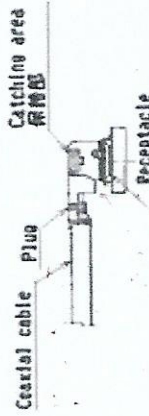
(1) 抜き差しを繰り返す場合
下図のように抜き差し
金具に注意して下さい。

(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.



(2) 手で抜き差しを繰り返す場合
下図の方向で抜き差し
金具に注意して下さい。

(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.



5-3 Crimp over standards of
outer conductor

Standards: Less than 10% from
total numbers of outer
conductor
(Numbers of outer conductor's
crimp over from outer
conductor's barrel)

5-4 Caution about Heat shrinkage
tubes

Please be careful not to melt
housing when using heat
shrinkage tubes.
It will become cause of open
circuit.

6. This is 'Pb-free' connector.

5-3 外導体はみ出し量

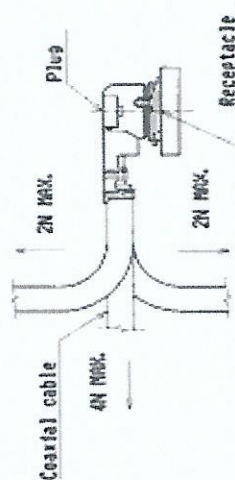
外導体はみ出し量規定
: 全導体10%以内
(10%以下)
(外導体10%以内)
はみ出し量)

5-4 熱収縮チューブについて
の注意
熱収縮チューブで外導体
を覆う場合は、導体不良の
原因になりかねないので、熱に
よりのシワを発生させない
よう注意してください。

6. 本コネクタは 'Pb-free'
である

Notes

1. Material
(1) Housing: PBT, UL94V-0
(2) Contact
phosphor bronze
gold plating 0.1μm MIN.
over nickel 1.27μm MIN.
- (3) Ground contact
phosphor bronze
gold plating 0.05μm MIN.
over nickel 1.27μm MIN.
2. Packing: reel
3. Mating partner part No.
: 20275-001E-01, 20441-001E-01
4. Permissible load of cable at mating



5. Suggestions for mating & unmating
operation.

5-1 Mating.
Please mate 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. コネクタの mating および unmating の注意

5-1 コネクタの mating
plug と receptacle の中心を合わせ、
できるだけ直交方向に mating して下さい。
斜交方向に mating すると、コネクタの破損の原因となり、
破損は避けられません。

1. 材質
(1) ハウジング: PBT, UL94V-0
(2) コネクタ
の材質
金メッキ 0.1μm MIN.
下層 ニッケル 1.27μm MIN.
- (3) グランドコネクタ
の材質
金メッキ 0.05μm MIN.
下層 ニッケル 1.27μm MIN.
2. 梱包: リール
3. 対応する part No.
: 20275-001E-01, 20441-001E-01
4. コネクタの mating 時のケーブルにかけられる負荷

DESIGN BY		DATE	
CHK BY		DATE	
APP BY		DATE	
REV. ECN	BY	DATE	APP
REV. RECORD		2014	
SERIES No.		2014	
CUSTOMER COPY		20278	
TITLE		General	
REVISION		4/4 19C	

WAS 1

GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

FORM REV. 4