



# 东莞市国旭电子通讯有限公司

Dongguan Guoxu Electronics Communication Co.,Ltd.

## 规格承认书

### SPECIFICATION FOR APPROVAL

日期 2016/08/15  
Date \_\_\_\_\_

编号 16081502  
File No \_\_\_\_\_

版本 1.0  
Revision \_\_\_\_\_

客 户 道通

CUSTOMER: \_\_\_\_\_

客户料号 MAXISYS906TS

CUSTOMER NO: \_\_\_\_\_

品 名 WIFI Antenna L=120mm FPC TO I-PEX


PART NAME: \_\_\_\_\_

供方料号 GX005I.300023.I01

SUPPLIER NO: \_\_\_\_\_

送样日期Date: 送样数量Q"TY: PCS

客户确认 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
	CHECK	DESIGN
	LiuNi	ChenXingCheng

GX-RD-F04-B



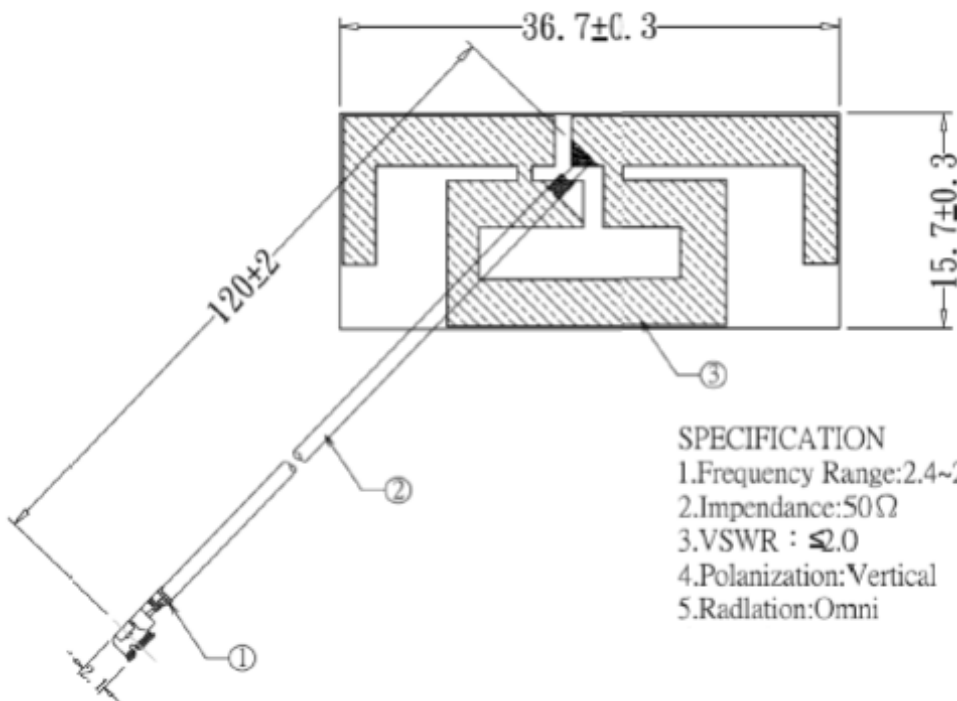
# 承认书项目表

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10	N/A	N/A	N/A
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13	-	-	-

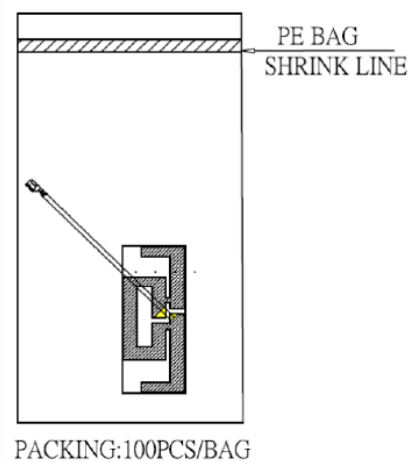
**RoHS**

CUSTOMER	道通
PART NO	小手持窥镜

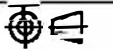
REV.	DESCRIPTION	DATE
△	首次发行	2016.04.23
△	修改天线结构	2016.07.19



**SPECIFICATION**  
 1. Frequency Range: 2.4~2.5GH  
 2. Impedance: 50Ω  
 3. VSWR : <math>\leq 2.0</math>  
 4. Polanization: Vertical  
 5. Radlation: Omni



 **东莞市国旭电子通讯有限公司**  
**GUOXU** Dongguan GuoXu Electronics Communication Co.,Ltd. Tel :0769-85535057 Fax:0769-81684308

PART NAME: WiFi Antenna L=105mm MHF			DATE: 2016-07-19	
PART NO.: GX005I.300023.I01				
APPROVED BY	CHECKED BY	DESIGNED BY	 Tolerance X.X ±0.50 X.XX±0.15 X° ±3°	
陈国强	刘妮	汪婷		
			UNITS: mm	
			SCALE: 1/1	
			REVISION: A	

3	FPCB	30.5*22.2MM	FPCB	FPC100XXA.P01	1
2	Coaxial Cable	O.D 1.13 Gray	Q.D.1.13	COA10002A.P01	1
1	Mini Connector	Au Plated 1代	Cu	TER10001A.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



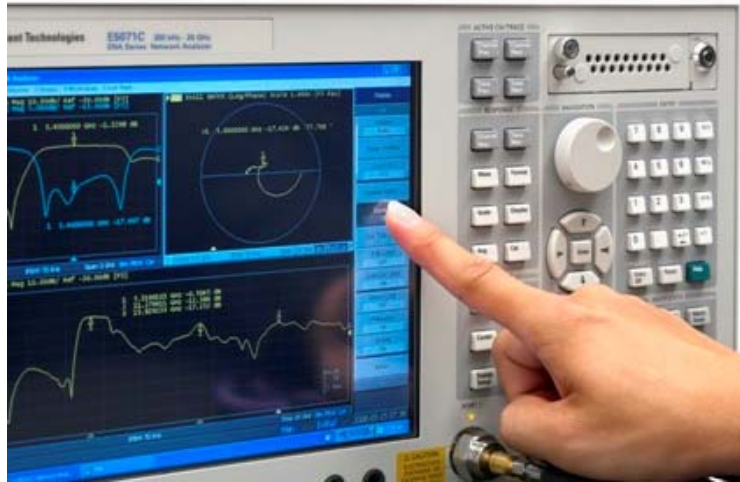
# 天线规格

## Antenna Specification

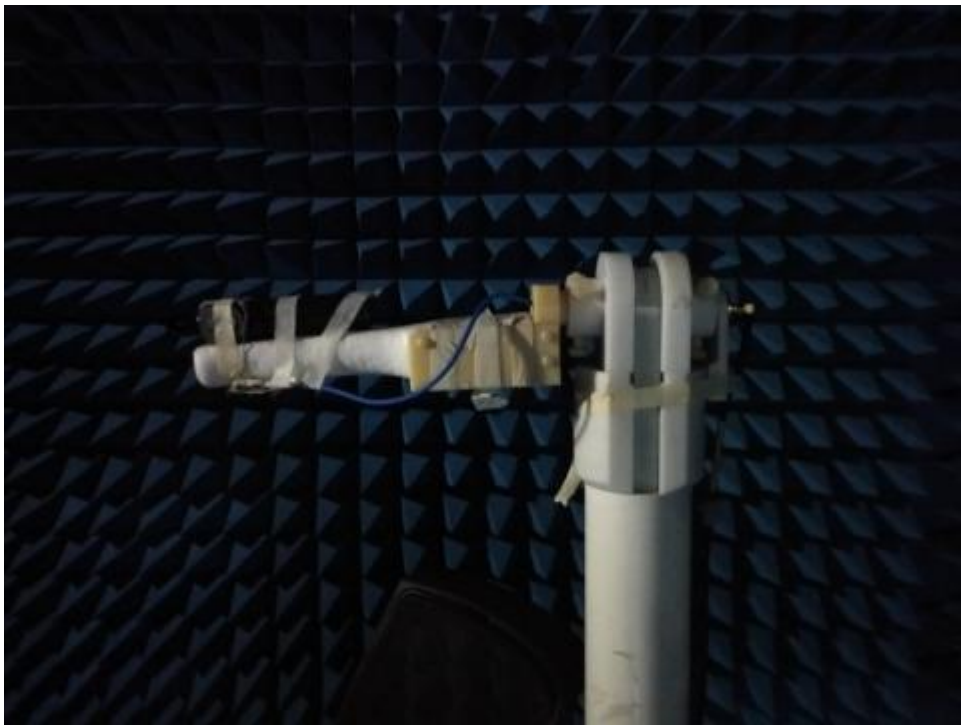
<b>Electrical Properties</b>	
Frequency	2400~2484MHz
Impedance	50 Ohm Nominal
V.S.W.R	1.92: 1 Max
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	See Page 7
Polarization	Linear
Connector	1代IPEX
<b>Physical Properties</b>	
Antenna Material	FPC TO I - PEX
Cable Type	FOR 1.13CABLE L=120mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	Gray

## *Antenna Performance Test*

*Agilent  
E5071B*



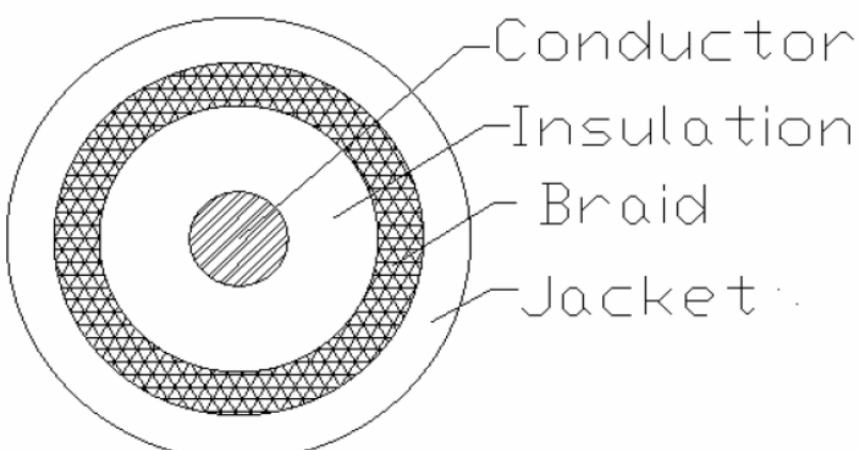
## *Antenna Passive Test*



Passive Test For WIFI			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	45.1	-3.5	0.8
2410	46.5	-3.3	0.9
2420	46.3	-3.3	0.9
2430	49.4	-3.1	1.3
2440	49.2	-3.1	1.3
2450	50.1	-3.0	1.45
2460	49.7	-3.0	1.3
2470	49.8	-3.0	1.45
2480	49.9	-3.0	1.45
2490	49.0	-3.1	1.3
2500	47.7	-3.2	1.3



### Cable Specification(線材規格書)

Description:		RF CABLE 50Ω #32(7/0.08)×1C							
UL File NO.:	E315781	UL Style:	1354	REV.	00	Part. NO.:	/	Sheet:	1 of 1
CSA File NO.:	/	CSA Style:	/	Data:	08-02-19	Path:	/		
Construction Item(結構項目)					Specification(規格值)				
Conductor (導體)	Construction AWG(線規)	AWG	32						
	Material(材質)	/	Silver Plated Copper(鍍銀軟銅線)						
	Filler Material(填充材料)	/	/						
	Construction(結構)	NO./mm	7/0.08						
	Stranded diameter(絞合外徑)	mm	0.24						
Insulation (絕緣)	Material(材質)	/	Teflon						
	Diameter(線徑)	mm	0.68±0.05						
	AVG. Thickness(平均厚度)	mm	0.22						
	Color(顏色)	/	Transparence(透明)						
Braid Shield (編織)	Material(材質)	/	Solid Tinned Copper(鍍錫線)16/4/0.05						
	Coverage(遮蔽率)	%	90 以上						
Jacket(外被)	Material(材質)	/	Teflon						
	Diameter(線徑)	mm	1.13±0.05						
	AVG. Thickness(平均厚度)	mm	0.12						
	Color(顏色)	/	Gray(灰色)						
	Extrusion Style(押出方式)	/	Tube(管狀)						
	Surface(外觀)	/	Plane(平面霧亮)						
Marking(印字)		/							
<p>Properties(特性):</p> <p>1.Insertion Loss data(衰減)(max.):2.2db @ 1GHz          2.9db @ 2GHz          3.7db @ 3GHz          4.3db @ 4GHz          4.8db @ 5GHz          5.3db @ 6GHz</p> <p>2.Impedance(阻抗):50±3Ω (TDR 250PS&amp;500PS)</p> <p>3.Return Loss(反射損失)(min.):20.0 @ 2.4-2.5GHz          15.5 @ 4.8-6.0GHz</p>									
									
Approved:		Checked:		Drawing:	柯海林				



# MHF<sup>®</sup> Plug Cable Assembly

Mating Profile : **2.5mm MAX.**

Applicable for various cable gauge

## [Part Number]

Ground Contact : **Au** Plating

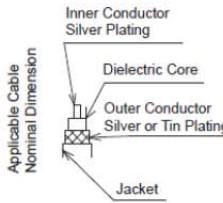
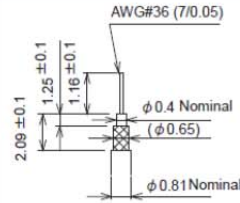
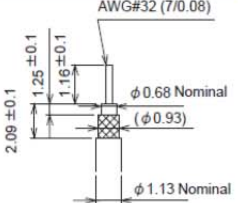
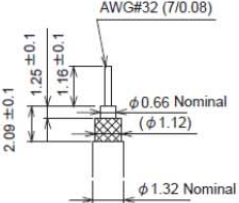
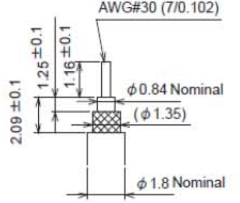
Ground Contact : **Ag** Plating

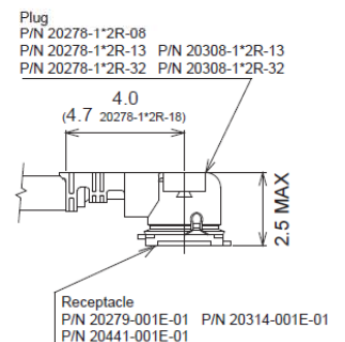
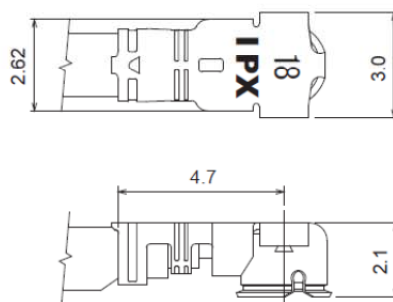
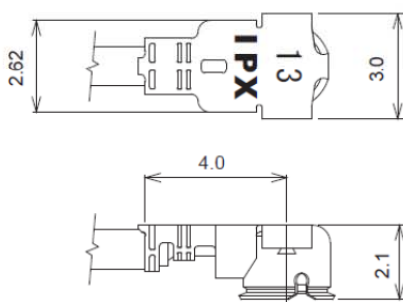
**20278-1 \* 2 R- \* \***  
                   ①   ②   ③

**20308-1 \* 2 R- \* \***  
                   ①   ②   ③

①	Tool	<b>0</b>	for Hand Tool ( with Notch )
		<b>1</b>	for Semi-Auto ( without Notch )
②	Packing	<b>R</b>	Reel 1reel : 2,000pcs
③	Applicable Cable Size	-	P/N 20278 : 08, 13, 32, 18 P/N 20308 : 13, 32

## [Applicable Cable gauge]

Part No. (Au)	20278-1*2R-08	20278-1*2R-13	20278-1*2R-32	20278-1*2R-18
Part No. (Ag)	-	20308-1*2R-13	20308-1*2R-32	-
	for AWG#36	for AWG#32	for AWG#32	for AWG#30
 <p>Inner Conductor Silver Plating Dielectric Core Outer Conductor Silver or Tin Plating Jacket</p>				
Braided Shield of Outer Conductor	Single Braided Shield	Single Braided Shield	Double Braided Shield	Single Braided Shield



## [Material and Finish]

MATED VIEW

Parts	Material	Plating / Color	Note
HOUSING	PBT UL94V-0	NATURAL or BLACK	Only Au 08, Au 18 is NATURAL
CONTACT	COPPER ALLOY	Au	
GROUND CONTACT	COPPER ALLOY	Au or Ag	

# MHF<sup>®</sup> Receptacle

## 3pad type

【Part Number】

Ground Contact : Au Plating

**20279-001 E- \* \***

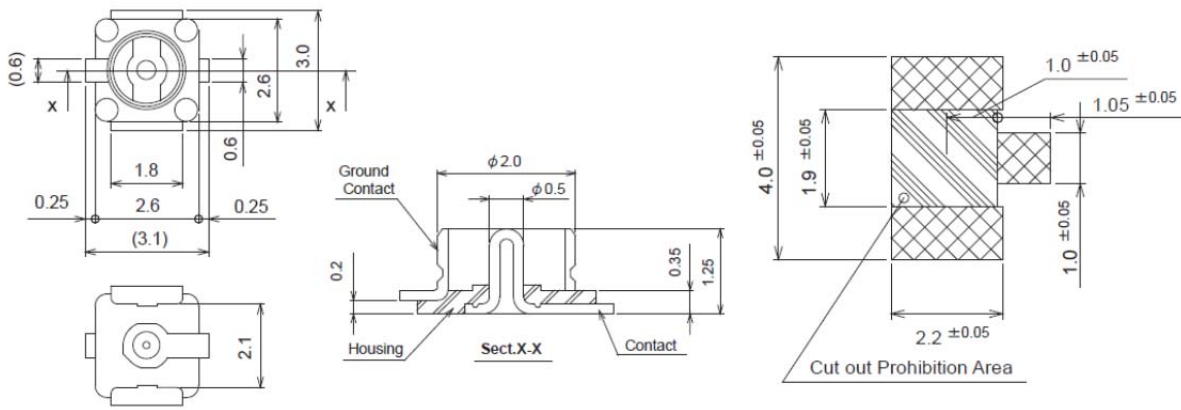
① ②

Ground Contact : Ag Plating

**20314-001 E- 01**

①

①	Packing : Emboss Tape		
②	1reel	01	2,500pcs
		03	5,000pcs



RECOMMENDED FOOTPRINT PATTERN

## 4pad type

【Part Number】

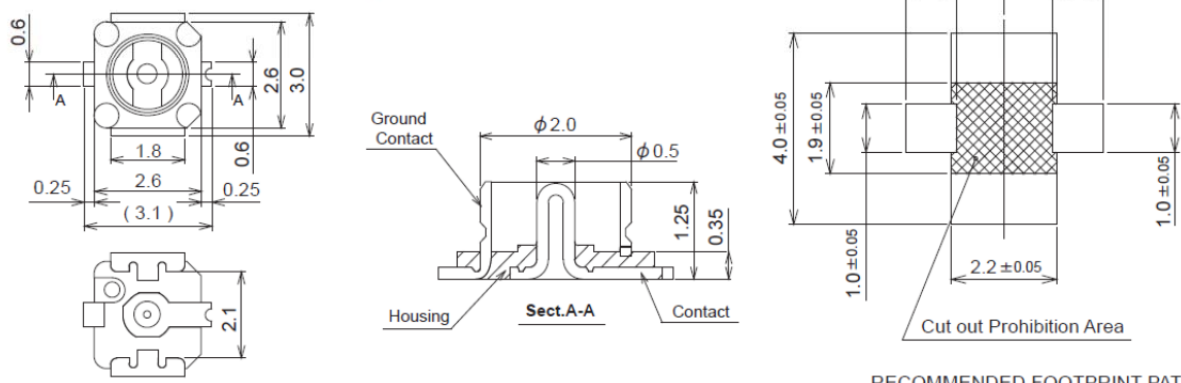
Ground Contact : Au Plating

**20441-001 E- 01**

※

※ Packing : Emboss Tape

1reel : 5,000pcs



RECOMMENDED FOOTPRINT PATTERN

## 【Material and Finish】

Parts	Material	Plating / Color (3pad)	Plating / Color (4pad)
HOUSING	LCP UL94V-0	NATURAL	BLACK
CONTACT	COPPER ALLOY	Au	Au
GROUND CONTACT	COPPER ALLOY	Au or Ag	Au

Product design and specification is subject to change for improvement without notice in advance. Please inquire to I-PEX representative for your confirmation.