

# 承 認 書

## APPROVAL SHEET

CUSTOMER: 宇智網通股份有限公司

CUSTOMER MODEL NO.:

JOYMAX MODEL NO.: IWF-152XMPAX-711

DESCRIPTION:#152X Flying Lead Antenna

REV.: 00

DATE 2008/3/4

Customer Approval

Joymax Approval

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## Index.

Item
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### 1. Drawing

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### 2. Test report

- Electrical test
- 

### 3. Specification

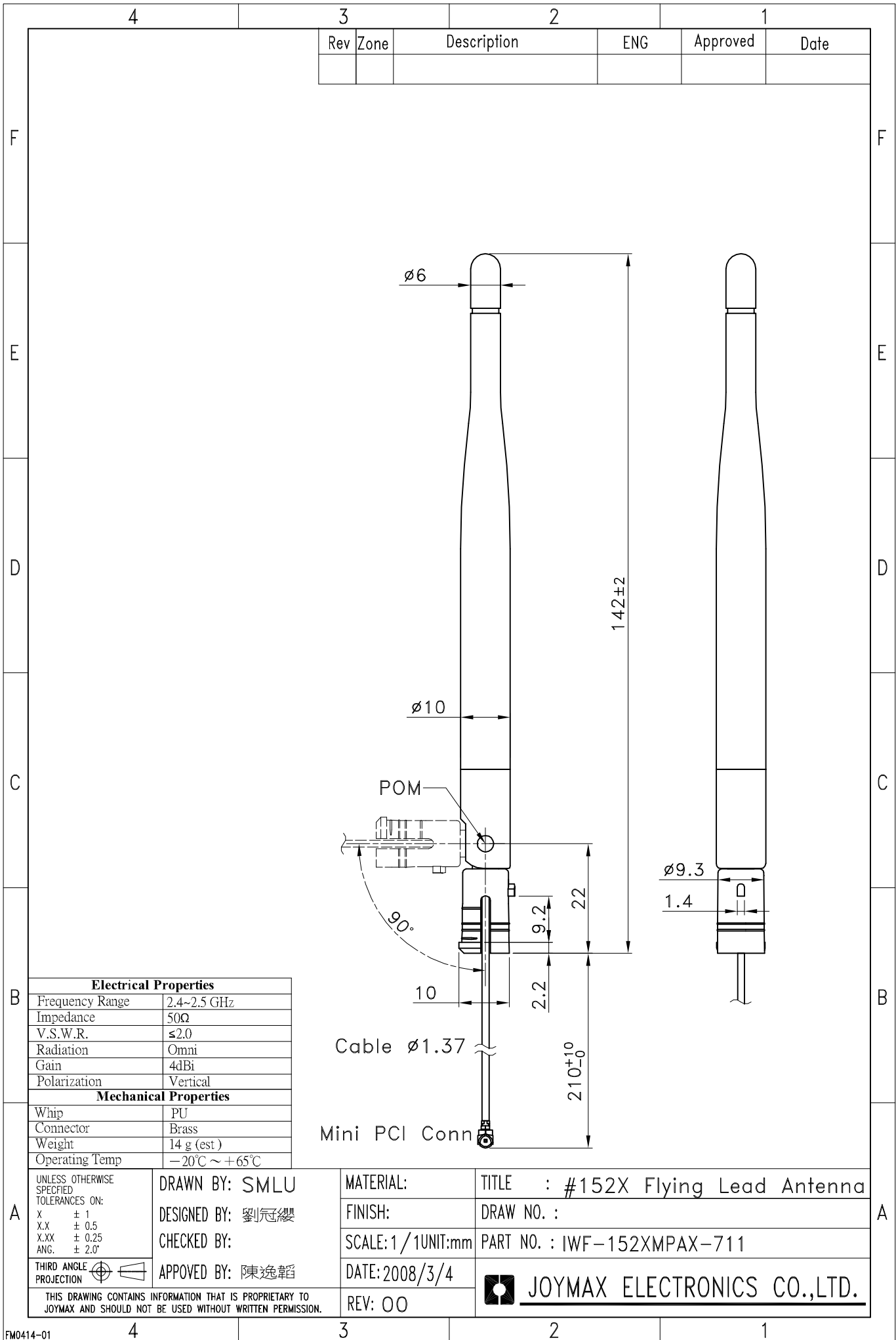
- Cable
  - Connector
- 

### 4. Packing

- PE Bag
  - Carton
- 

## Modification History:

Rev.	Date	Content
00	2008/3/4	



3		2		1	
Rev	Zone	Description	ENG	Approved	Date

Electrical Properties	
Frequency Range	2.4~2.5 GHz
Impedance	50Ω
V.S.W.R.	≤2.0
Radiation	Omni
Gain	4dBi
Polarization	Vertical
Mechanical Properties	
Whip	PU
Connector	Brass
Weight	14 g (est)
Operating Temp	-20°C ~ +65°C

UNLESS OTHERWISE SPECIFIED TOLERANCES ON:	DRAWN BY: SMLU DESIGNED BY: 劉冠纓 CHECKED BY: APPROVED BY: 陳逸韜
X ± 1	
X.X ± 0.5	
X.XX ± 0.25 ANG. ± 2.0°	
THIRD ANGLE PROJECTION	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO JOYMAX AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	

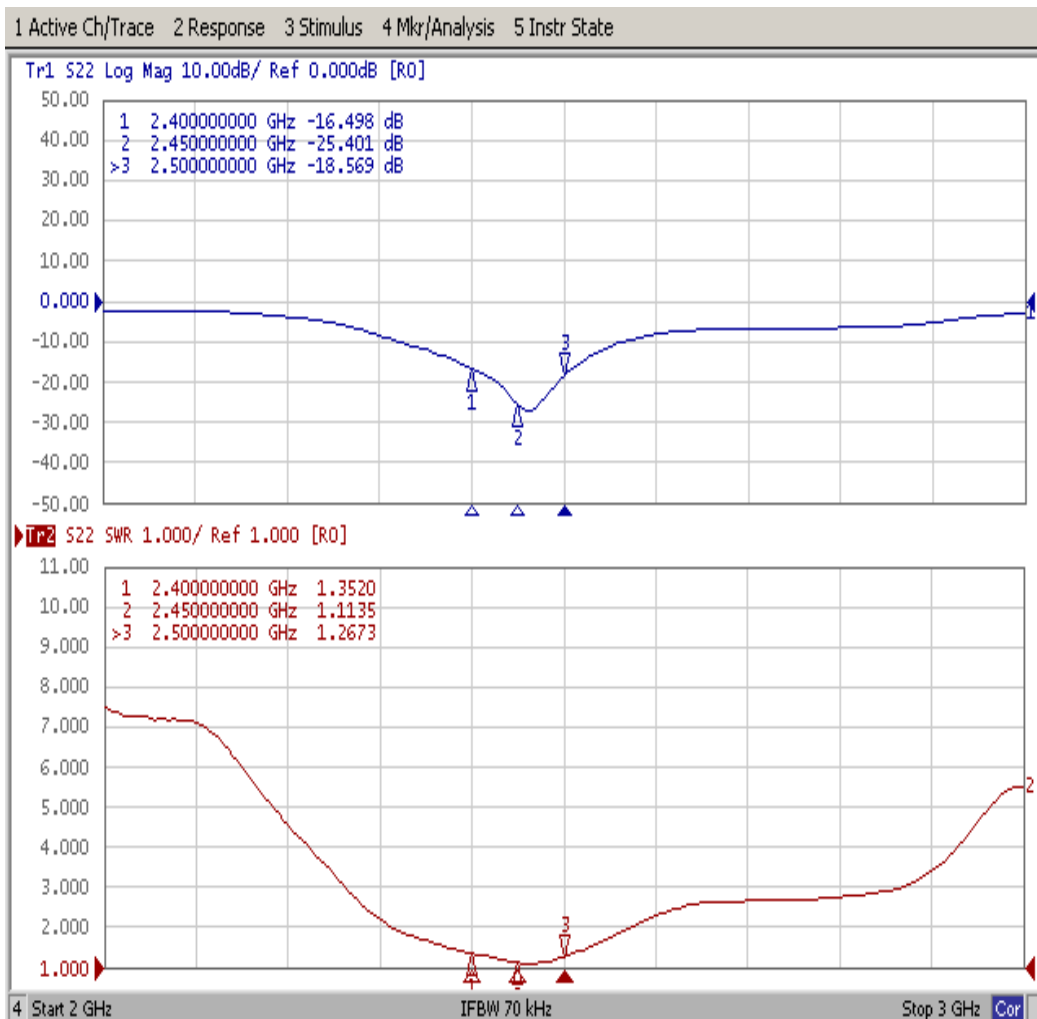
MATERIAL:	TITLE : #152X Flying Lead Antenna
FINISH:	DRAW NO. :
SCALE: 1/1UNIT:mm	PART NO. : IWF-152XMPAX-711
DATE: 2008/3/4	JOYMAX ELECTRONICS CO.,LTD.
REV: 00	

Model. IWF-152XMPAX-711

Test Report

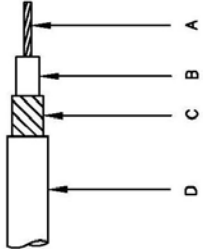
Return loss/V.S.W.R

Return loss



Rev	Change	By	Date



**Electricals:**

Characteristic Impedance: 50±2 Ohms  
 Inner Conductor Resistance @20°C: 349 nom. Ω/km  
 Capacitance: 96.5 PF/m

**Construction:**

A) Inner Conductor:  
 Silver Plated Copper  
 OD 0.304mm

B) Dielectric:  
 Extruded PTFE  
 OD 0.89mm

C) Outer Conductor:  
 Silver Plated Copper  
 OD 1.11mm

D) Outer Jacket:  
 Extruded FEP  
 OD 1.37±0.1mm

**Scope:**

This specification presents a FEP jacketed COAXIAL cable AWG30, 1.37 mm O.D. for internal wiring of electronic equipment, such as Computer/Notebook with wireless communication systems. [UL1745;90°C,30V] under File No.E45046 and Category No.AVLV2.

**Norm. Attenuation:**

1.0 GHz	1.5 dB/m
2.0 GHz	2.2 dB/m
3.0 GHz	2.6 dB/m
4.0 GHz	3.0 dB/m
5.0 GHz	3.5 dB/m
6.0 GHz	3.9 dB/m

Date:	Scale:	Drawn By:	Anna
12/18/2003	None		
Drawing Name:		Rev:	Sheet 1 of 1
J137			

Notes

1. Material  
 (1) Housing : PBT, UL94V-0, black  
 (2) Contact phosphor bronze gold plating  
 (3) Ground contact phosphor bronze, silver plating  
 2. Packing : reel  
 3. Mating partner part No. : 20314-001E-01

1. 材 料  
 (1) ハウジング: PBT, UL-94V-0, 黒色  
 (2) コネクタ : 黄銅  
 (3) グランドコネクタ : 黄銅, 銀メッキ  
 2. 梱包 : リール  
 3. かん合相手 part No. : 20314-001E-01

4. Permissible load of cable at mating  
 コネクタかん合後のケーブルに対する荷重

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.

5-1 コネクタ挿入時  
 PlugとReceptacleのかん合軸を合わせて、できるだけ垂直に挿入して下さい。斜めに挿入を行わないで下さい。コネクタ破損の原因となりますので、過度なこじり挿入は行わないで下さい。

5-2 Unmating.  
 (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) 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.

5-2 コネクタ抜き時  
 (1) 抜き棒を用いる場合  
 下図のようにできるだけ垂直に引き抜いて下さい。  
 (2) 手で直接引き抜く場合  
 下図の保持部をつかみ、できるだけ垂直に引き抜いて下さい。

Plus P/N 20300-1-IR-08  
 20300-1-IR-13  
 20300-1-IR-32

GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX.	±0.3
3D_OVER MAX.	±0.5
ANGLE	±2°

Receptacle Part No. 20314-001E-01

FORM REV. 4

MAS 1

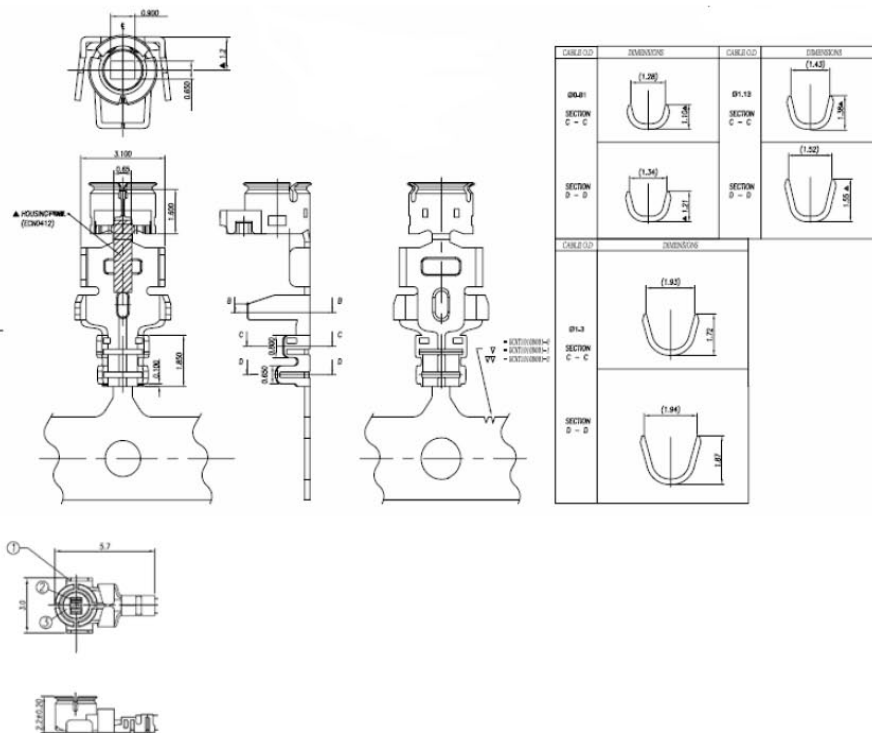
# Connector

# Mini PCI Conn

## JESS-LINK PRODUCTS CO., Ltd

Product: Micro-Coaxial RF Connector – Plug  
 Part No. : Plug assembly: UCNT1010D001-X  
 Contact pin: MST0000091 / MST0000608

### Reference Dimension:



### Material:

**Material:** Shell - Phosphor Bronze. t=0.20 mm  
 Contact - Phosphor Bronze. t=0.12 mm  
 Housing – PBT, Black, UL94V-0

**Plating:** Shell - Under plated 50u" MIN Ni. All Over  
 5 u" MIN Gold in Plated Area.  
 Contact - Under plated 50u" MIN Ni. All Over  
 15 u" MIN GOLD in Plated Area.

### Specification:

Item	Specification	Conditions
Contact resistance	Center: 20 m ohms max. Outside: 10 m ohms max.	10 mA max.
Insulation resistance	500 M ohms min.	100 V DC
Withstanding voltage	No flashover or insulation breakdown.	200 V AC / 1 minute
V.S.W.R.	1.3 Max at 0.1~3.0GHz, 1.5Max at 3.0~6.0GHz	Up to 60Hz
Operating temperature range	-40°C to +90°C	
Nominal impedance	50 ohms	