

仕様書番号

1600040

株式会社サーキットデザイン 御中

## 納入仕様書

SPECIFICATION FOR APPROVAL

RoHS対応

|                            |                                       |
|----------------------------|---------------------------------------|
| 品名<br>Description          | 組込用スリーブアンテナ<br>(2.4GHz)               |
| 型名<br>Type Name            | ANT-2400-ME3<br>ANT-2G4S2/ANT-2G4S2-L |
| 御社部品番号<br>Customer Part No | 00024813                              |
| 弊社部品番号<br>Vender Part No   | 40160872<br>(IHF-ME02MPBX-350W030)    |

受領印欄

Specification Sheet Receipt

この書類を受領いたしました。

品番 00024813

2016年7月26日

(株)サーキットデザイン

技電部

宮下

提出部数

3部

御返却部数

1部

株式会社 マップエレクトロニクス

〒386-0005

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DATE

2016年04月05日

承認  
APPROVED確認  
CONFIRMED担当  
REPRESENTATIVE

豊田

柳澤

山崎

## 変 更 履 歴 書

| 年 月 日        | 納入仕様書 No | バージョン   | 変更経歴及び理由 | 受領日 |
|--------------|----------|---------|----------|-----|
| 2016. 04. 05 | 1600040  | REV. 00 | 初版作成     |     |
|              |          |         |          |     |

## Index.

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|                         |   |
|-------------------------|---|
| <b>1. Specification</b> | 2 |
| • Drawing               | 2 |
| • Connector             | 3 |
| • Cable                 | 4 |
| <hr/>                   |   |
| <b>2. Test report</b>   | 5 |
| • Electrical test       | 5 |
| • Pattern test          | 6 |

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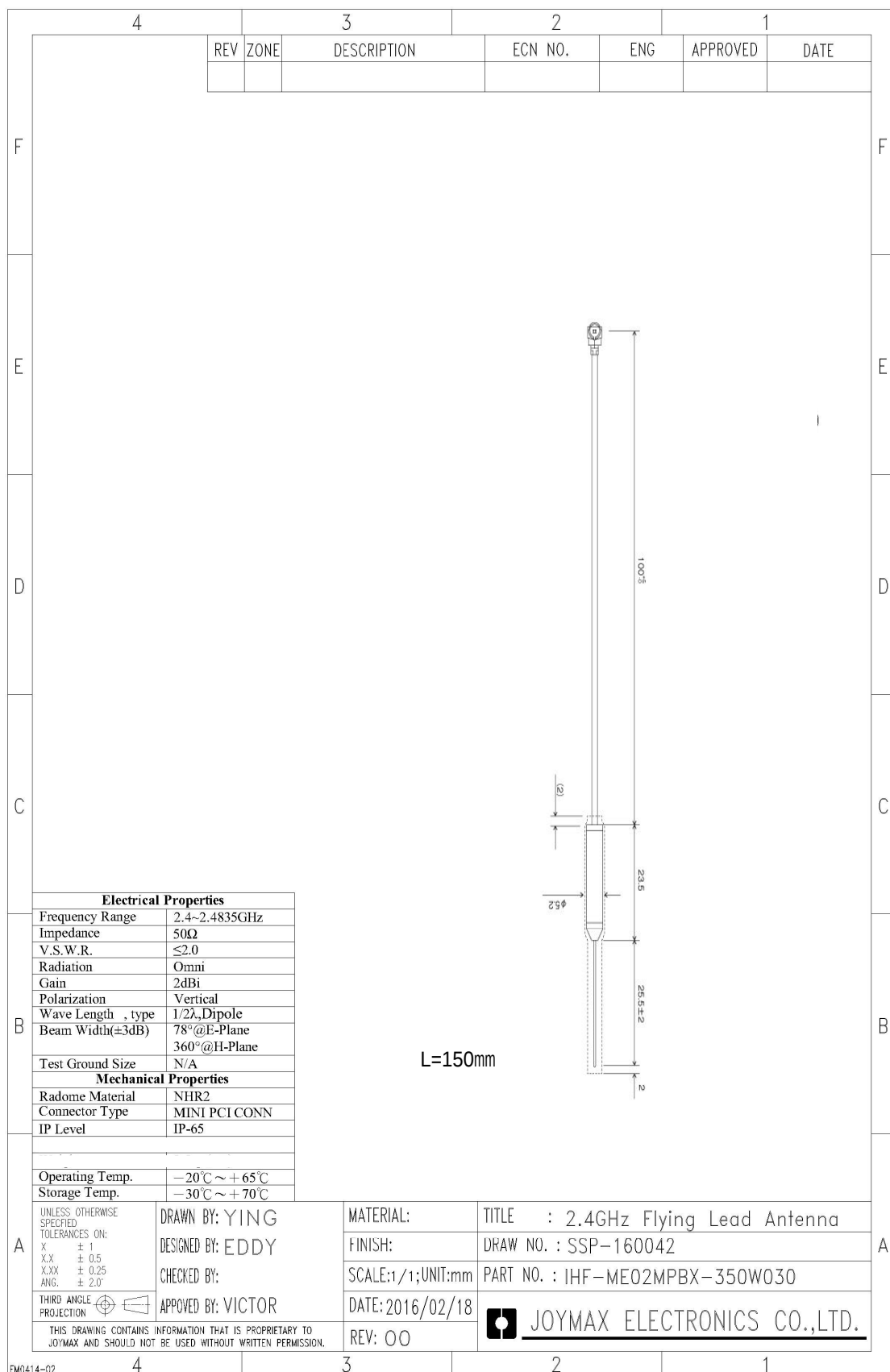
## Modification History:

| Rev. | Date      | Content |
|------|-----------|---------|
| 00   | 2016/2/16 |         |



# 1. Specification

## 1.1 Drawing



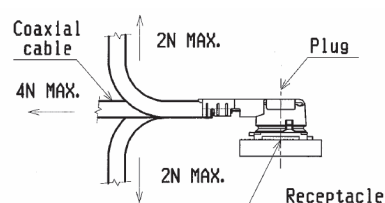
## Connector

## Mini PCI Conn

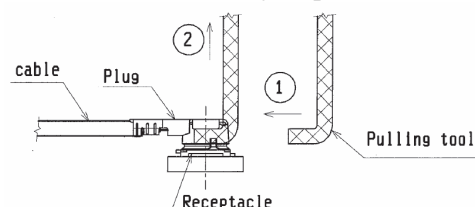
|                       |                                    |                                         |
|-----------------------|------------------------------------|-----------------------------------------|
| Specification<br>Data | 1) Impedance                       | $50 \pm 2 \Omega$ (TDR)                 |
|                       | 2) Frequency Range                 | 0~6GHz                                  |
|                       | 3) V.S.W.R.                        | 1.3Max.(DC0.1~3GHz), 1.5Max.(3~6GHz)    |
|                       | 4) Insulation resistance           | $\geq 500 M\Omega \cdot km$             |
|                       | 5) Dielectric withstanding voltage | AC1000V, 1 minute No creeping discharge |

### Environmental Data

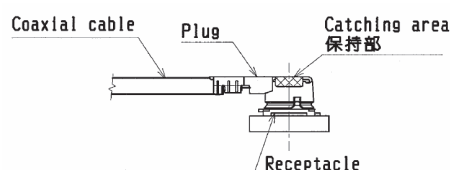
- 1) Permissible load of cable at mating



- 2) 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



- 3) 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.



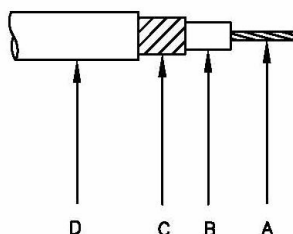
### Material Specifications

#### Material Data

- 1) Body  
2) Contact  
3) Insulator

#### Material

- Phosphor Bronze  
Phosphor Bronze  
PBT (UL94-V0)

Scope:

This specification presents a FEP jacketed COAXIAL cable AWG32, 1.13 mm O.D. for internal wiring of electronic equipment, such as Computer/Notebook with wireless communication systems.

Construction:

- A) Inner Conductor:  
Silver Plated Copper  
OD 0.237mm
- B) Dielectric:  
Extruded PTEE  
OD 0.68
- C) Outer Conductor:  
Silver Plated Copper  
OD 0.9mm
- D) Outer Jacket:  
Fep-brown tint  
OD 1.13±0.05mm

Electricals:

|                                   |               |
|-----------------------------------|---------------|
| Impedance:                        | 50 ± 2 Ohms   |
| Inner Conductor Resistance @20°C: | 525 nom. Ω/km |
| Capacitance:                      | 98 pF/m nom   |

Attenuation:

|        |                |
|--------|----------------|
| 100MHz | 63.21 dB/100m  |
| 400MHz | 131.20 dB/100m |
| 800MHz | 190.55 dB/100m |
| 1GHz   | 226.47 dB/100m |
| 2GHz   | 322.43 dB/100m |
| 3GHz   | 414.92 dB/100m |
| 4GHz   | 512.47 dB/100m |
| 5GHz   | 593.76 dB/100m |
| 6GHz   | 660.42 dB/100m |

Model NO. IHF-ME02MPBX-350W030

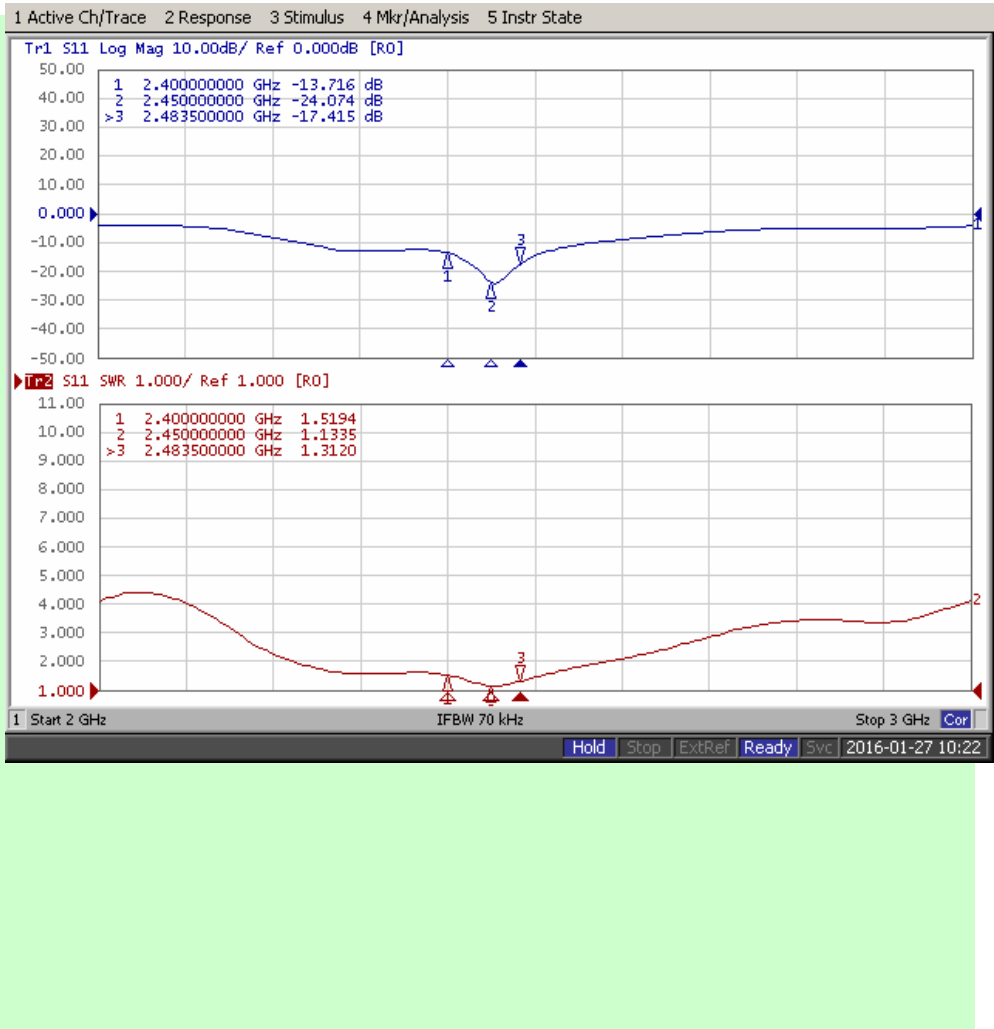
2.Test Report

2.1 Electrical test

Return loss/V.S.W.R

Return loss

V.S.W.R.



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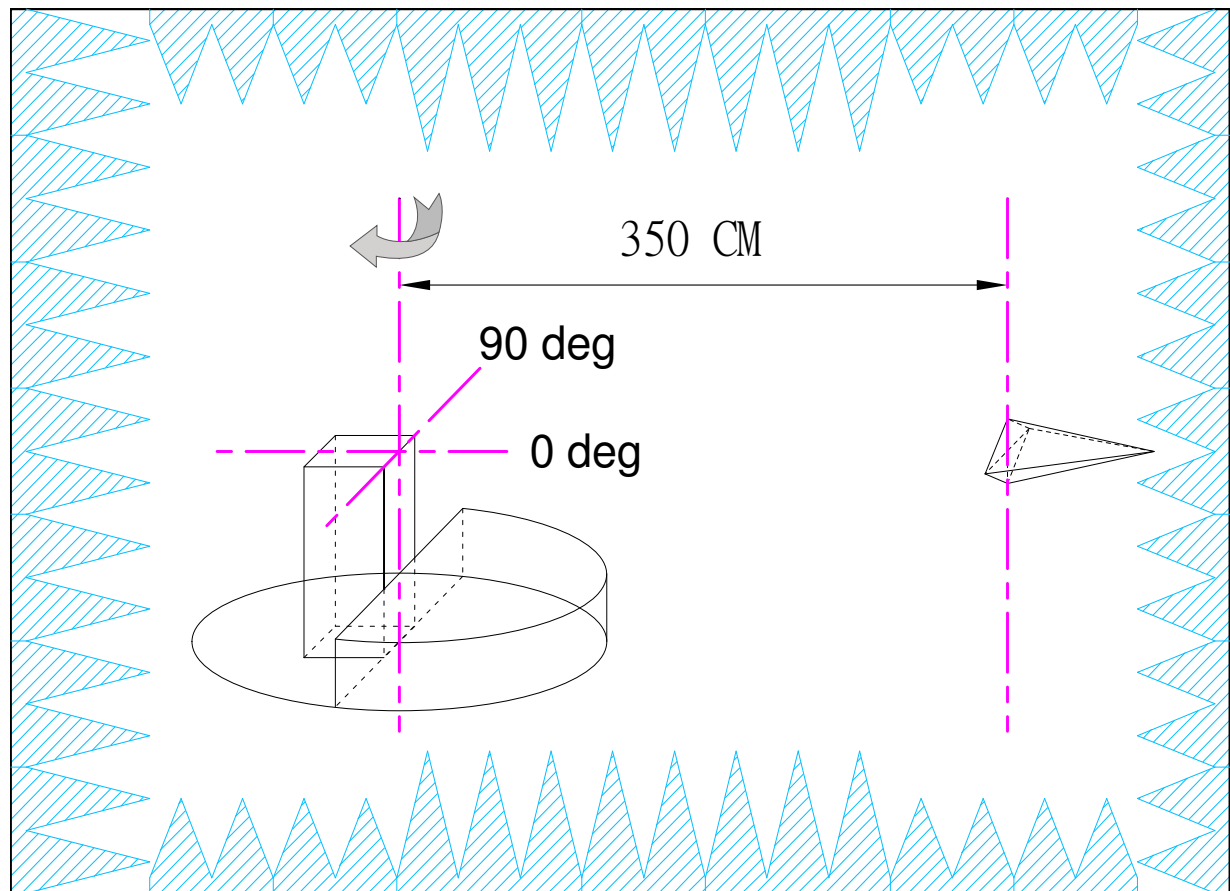
**Model NO.IHF-ME02MPBX-350W030**

**2D Patten Test Instrument**

**Pattern Test**

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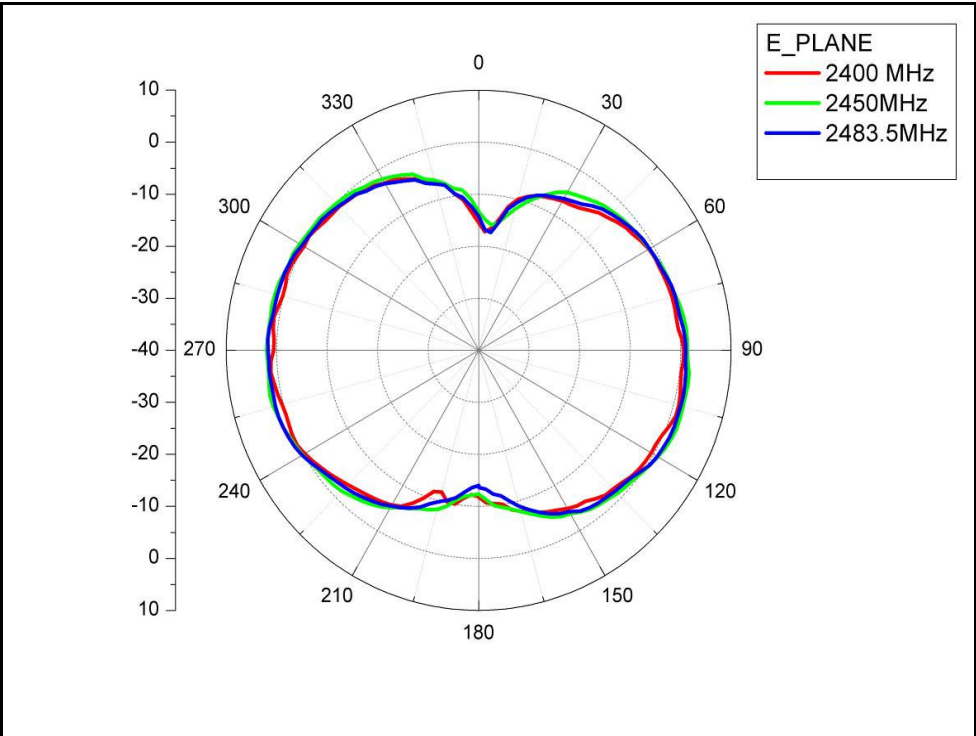
### **Test Equipment**

Anechoic chamber: 100MHz~6GHz 8\*6\*6m (※ 1m Quiet zone at 800MHz)

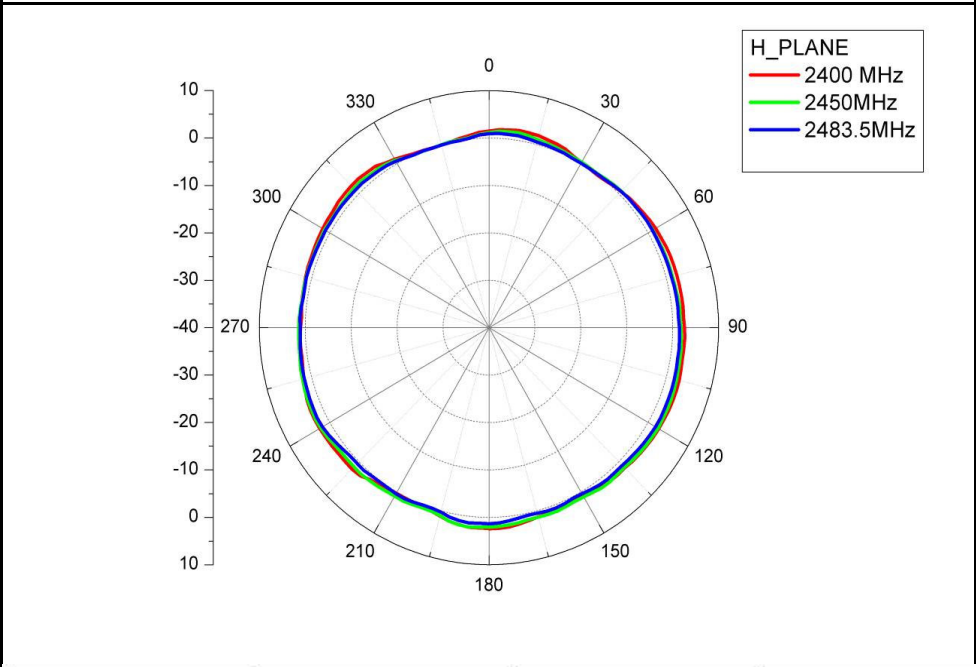
Source Antenna: ETS-3164 Dual Polarized Horn

Network Analyzer: Agilent E5071B 100kHz~8.5GHz

E-plane



H-plane



| Frequency | 2400MHz | 2450MHz | 2483.5MHz |
|-----------|---------|---------|-----------|
| E-PLANE   | 1.82    | 2.2     | 1.96      |
| H-PLANE   | 2.02    | 2.13    | 1.77      |