



ASLINK (H.K.) PRECISION CO., LTD

SPECIFICATION

CUSTOMER: ASUS AOOD
CUSTOMER P/N : 14G150020000
PART NO. : 90ZLARFC0039A
DESCRIPTION: E BOX 204 ANTENNA
ISSUE DATE : 2008/10/20
REV. : X1

Drawn	Check	Approved
Jerry Lin	Dio Chung	Rich Liu



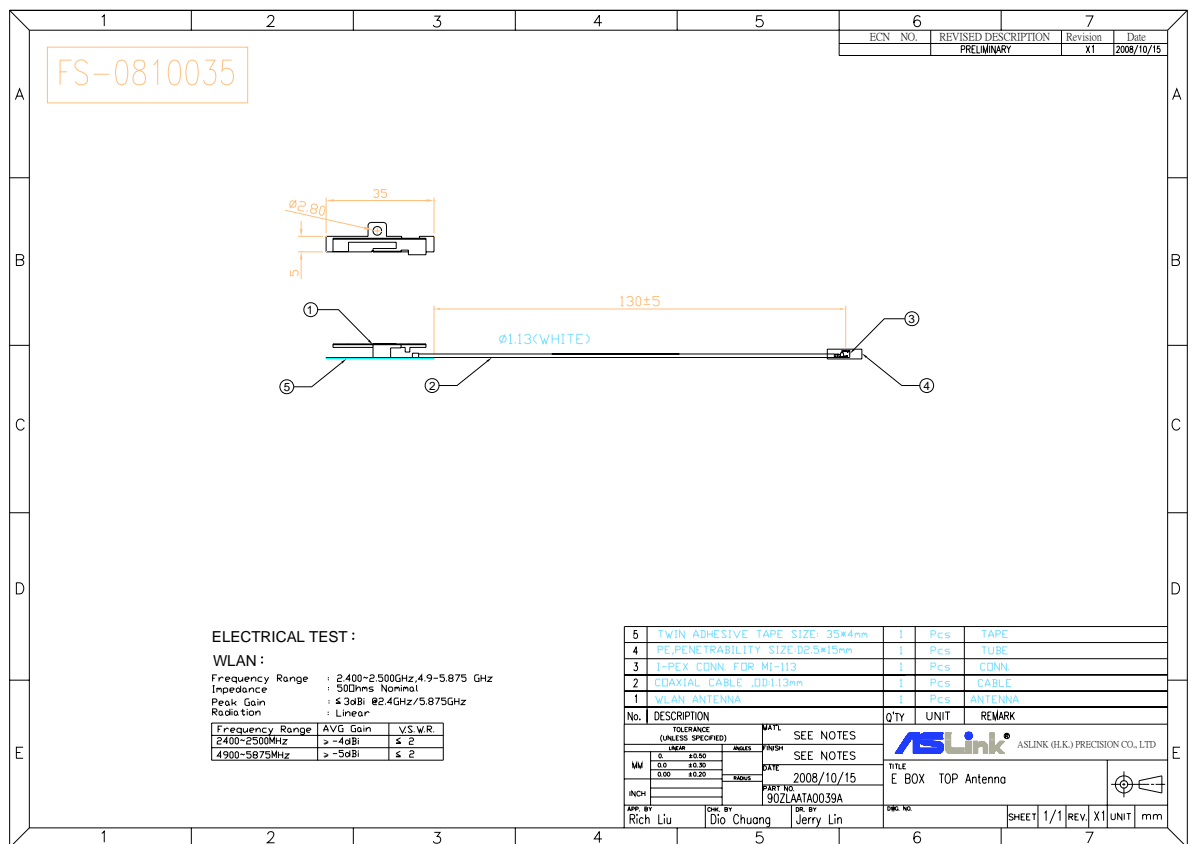
1.Scope:

This specification is for the requirement of E BOX 204 ANTENNA

2.ASLink P/N & Drawing:

ASLink P/N:90ZLARFC0039A

Drawing:



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**3.RF CABLE SPECIFICATION**

2・Construction/結構

Unit/單位: mm

Item/項目		Details/詳細資料
Conductor/導體	Material/材料	Silver-Coated Copper Wire/鍍銀銅線
	Composition (No. /mm) /構成 (根/mm)	7/0.079
	Nom. O. D/標稱外徑	0.237(±0.03)
Insulation/絕緣層	Material/材料	SUMIFLON® P(Natural)/SUMIFLON® P(自然色)
	Nom. Thick./標稱絕緣厚度	0.229
	Nom. O. D/標稱外徑	0.695(±0.03)
Shield/遮罩層	Material/材料	Tinned annealed copper wire/鍍錫銅線
	Percentage Coverage/覆蓋率	Nom. 89%
	Composition/構成	8/8/0.05
Jacket/外被	Material/材料	SUMIFLON® A(Color) / SUMIFLON® A(*顏色)
	Nom. Thick./標稱絕緣厚度	0.093
	Nom. O. D/標稱外徑	1.13(±0.05)

* Black : P/N 08-9100-0200

* White : P/N 08-9100-0201

* Gray : P/N 08-9100-0202

3・Electrical Properties (at 20°C) /電氣特性(20°C時)

Item/項目	Unit/單位	Details/詳細資料
Conductor Resistance/導體阻抗	Ω /km	Max. 597
Insulation Resistance/絕緣阻抗	$M\Omega \cdot km$	Min. 1500
Dielectric Strength/耐壓強度	V(AC)/min	500
Characteristic Impedance/特性阻抗	Ω	50±2(TDR)
Capacitance/靜電容量	pF/m	Nom. 98 (1 KHZ)
Heat resistance for solder/絕緣收縮	-	Please see attached file 1/看附件一

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Attenuation/衰減 (max/最大) (Testing method please see attached file 2 /測試方法見附件 2)	-	2.0	1.0GHZ
		2.9	2.0GHZ
		3.2	2.4GHZ
		3.7	3.0GHZ
		4.3	4.0GHZ
		4.8	5.0GHZ
		5.3	6.0GHZ
Return Loss/反射損失	-	Max -20.8dB(2.4-2.5GHZ)	
	-	Max -15.6dB(4.8-6.0GHZ)	
Rating of Temperature/溫度	°C	90	
Rating of Voltage/電壓	V	30	

4. 包裝

標準單位包裝長度為 200 米/盤。在搬運過程中不能損壞包裝。

※ 不可以有接頭。

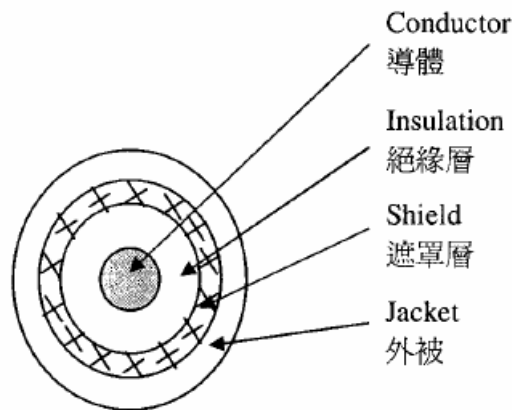
用途：2 級機內配線。

4 · Packing

Standard unit length of finished cable shall be 200m on reel . The finished cable shall be packed not be damaged during transportation.

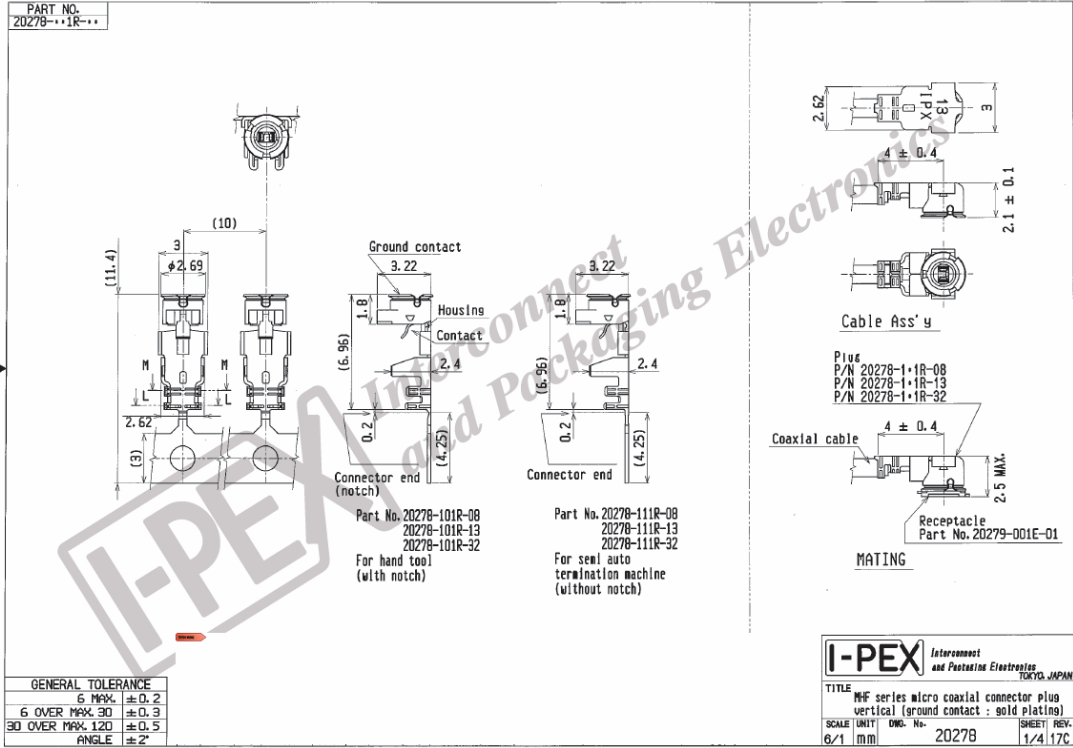
※ Don' t be joint.

Use: Internal wiring of class 2 circuits.



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4. I PEX CONNECTOR



Part No.	20278-101R-08 20278-111R-08	20278-101R-13 20278-111R-13	20278-101R-32 20278-111R-32	20278-101R-18 20278-111R-18	Cable cut length
Housing color	White	Black	Black	White	
Applicable cable nominal dimension	2.09 ± 0.1 1.25 ± 0.1 1.16 ± 0.1	2.09 ± 0.1 1.25 ± 0.1 1.16 ± 0.1	2.09 ± 0.1 1.25 ± 0.1 1.16 ± 0.1	2.09 ± 0.1 1.25 ± 0.1 1.16 ± 0.1	
Jacket	Outer conductor plating Nominal φ0.81	Outer conductor plating Nominal φ1.13	Outer conductor plating Nominal φ1.32	Outer conductor plating Nominal φ1.8	
Dilectric core	Inner conductor silver plating Nominal φ0.4	Inner conductor silver plating Nominal φ0.68	Inner conductor silver plating Nominal φ0.66	Inner conductor silver plating Nominal φ0.84	
Braded shield of Outer conductor 外部導体の編組	Single / 1層編組	Single / 1層編組	Double / 2層編組	Single / 1層編組	
P/N of hand Tool	90187-008C	90187-013C	90187-032C	90233-018	
P/N of seal auto termination machine	90213-008C	90213-013C	90213-032C	90232-018	
Sect. M-M					
Sect. L-L					
Crimp Height	CH-1 1.34~1.40 CH-2 0.76~0.84 CH-3 0.85~0.97	1.34~1.40 1.06~1.14 1.15~1.35	1.34~1.40 1.20~1.30 1.26~1.46	1.34~1.40 1.41~1.49 1.70~1.80	
NOTE-1 中心導体、外部導体への半田コテイングは不可 Must not use solder coated Inner conductor and outer conductor.					
GENERAL TOLERANCE 6 MAX. ±0.2 6 OVER MAX. 30 ±0.3 30 OVER MAX. 120 ±0.5 ANGLE ±2°					
I-PEX Interconnect and Packaging Electronics TOKYO, JAPAN TITLE MF series micro coaxial connector plug vertical (ground contact : gold plating) SCALE UNIT DWG. No. SHEET REV. 6/1 mm 20278 3/4/17C					

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

1. 材料
 (1) ハウジング: PBT, UL94V-0
 (2) コネクタ
 りん青銅
 ゴールドメッキ0.1μm MIN.
 下層 ニッケル1.27μm MIN.
 (3) グランドコンタクト
 めん青銅
 ゴールドメッキ0.05μm MIN.
 下層 ニッケル1.27μm MIN.

2. 梱包 : リール
3. カル合相手 part No. : 20279-001E-01
4. コネクタカル合時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.
 No 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のカル合軸を合わせ、できるだけ直線的に挿入して下さい。無理な斜め挿入は行わないで下さい。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 plus 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 plus to vertical direction as directly as possible.

5-2 コネクタ抜き時
 (1) 抜きツグを用いる場合
 下図のようにつまみこぎ器に引き抜いて下さい。
 (2) 手で直接引き抜く場合
 下層の保持部をつかみ、できるだけ直線的に引き抜いて下さい。

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)

5-3 外部導体はみ出し量
 外部導体はみ出し量規定: 外部導体ケーブル本数の10%以下 (外部導体バレルの外にほみ出し量)

5-4 Caution about Heat shrinkase tubes
 Please be careful not to melt housing when using heat shrinkase tubes.
 It will become cause of open circuit.

5-4 熱収縮チューブについて
 熱収縮チューブで外部導体をつまみこぎ器は、導通不良の原因になりますので、熱によりハウジングを溶融させないよう注意してください。

6. This is 'Pb-free' connector.

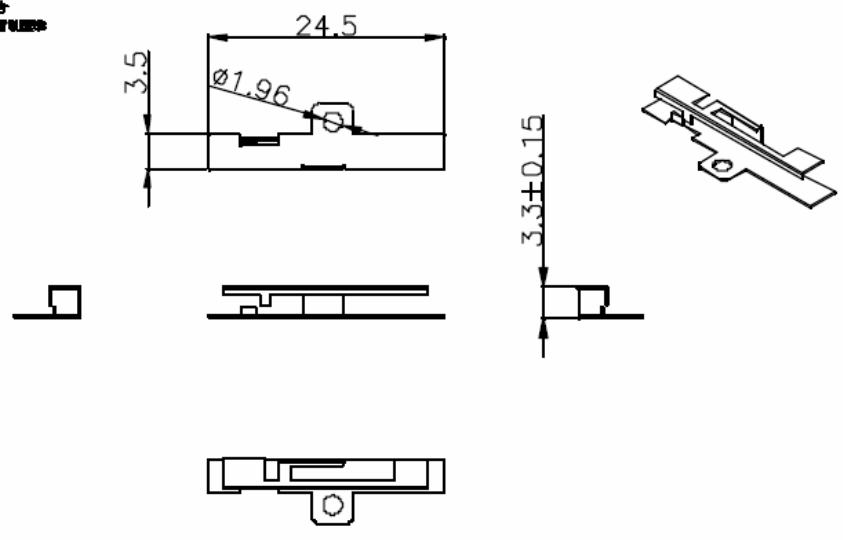
6. 本コネクタは 'Pb-free' である

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

I-PEX Interconnect and Packaging Electronics TOKYO, JAPAN			
TITLE	MF series micro coaxial connector plug vertical (ground contact : gold plating)		
SCALE	UNIT	DRG. No.	SHEET REV.
1/1	mm	20279	4/4 17C

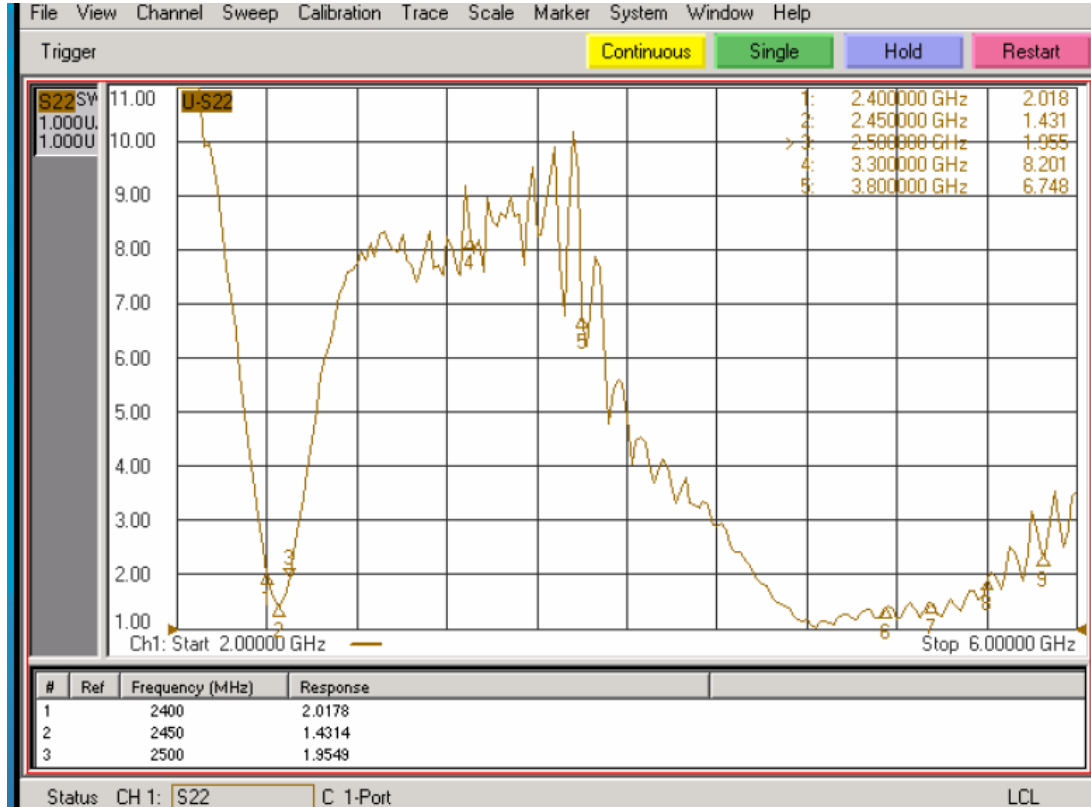
5. ANTENNA

- 加工説明**
 1. 材質: SUS43D
 2. 厚さ: 0.3mm
 3. 溶接材料: 銅
 4. 使用材料: 銅
 RoHS 対応



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6. ANTENNA VSWR ≤ 2.0



7. PEAK GAIN

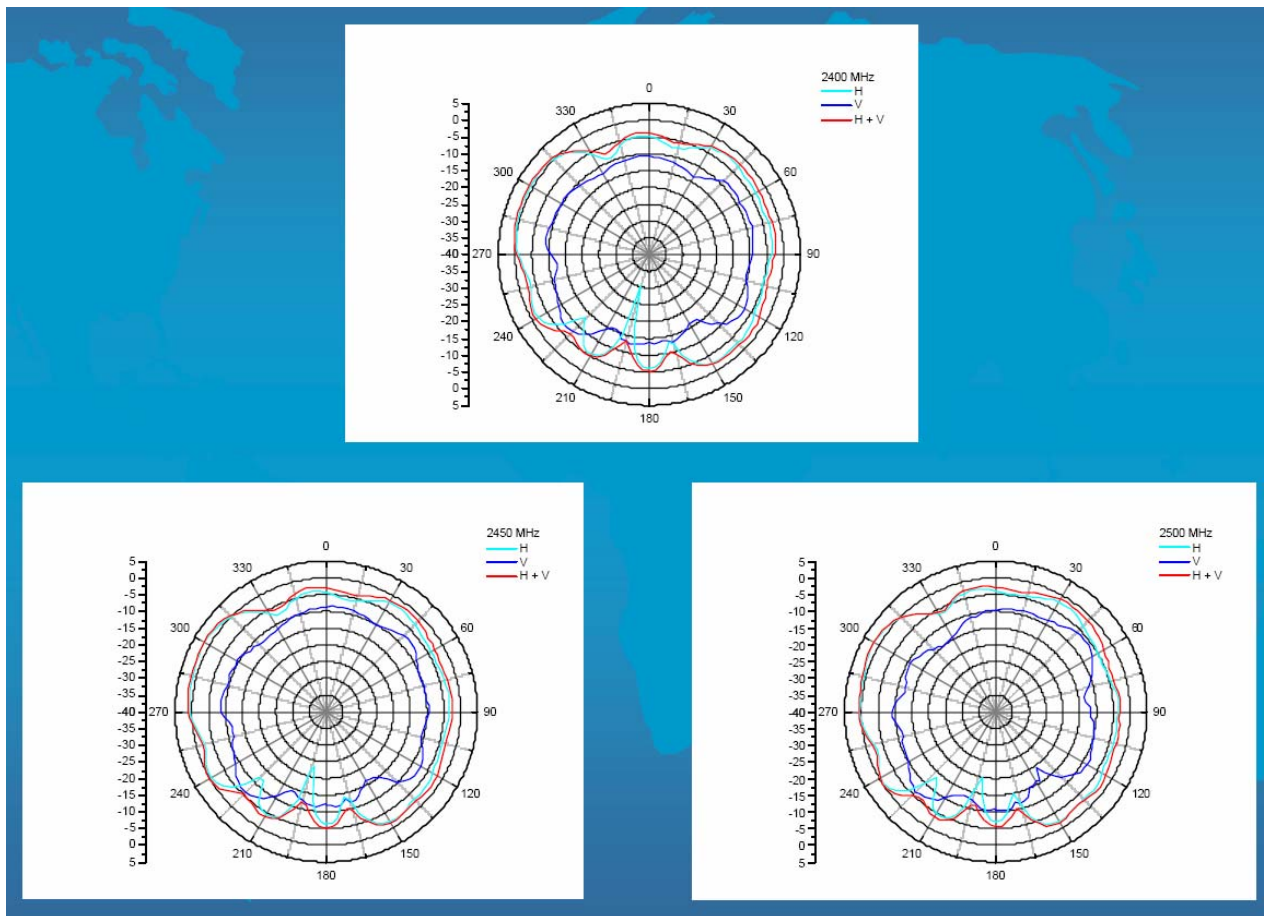
Frequency	Aux ANTENNA		
	H	V	H+V
MHz	dBi	dBi	dBi
2400	0.95	-7.20	1.32
2450	1.66	-5.91	1.99
2500	1.70	-5.85	1.95

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8. AVG GAIN

Frequency	Aux ANTENNA		
	H	V	H+V
MHz	dBi	dBi	dBi
2400	0.95	-7.20	1.32
2450	1.66	-5.91	1.99
2500	1.70	-5.85	1.95

9. RADIATION PATTERN



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