



# 貝斯科技股份有限公司

Best Electronics Service Technology Corp



## 產品型錄

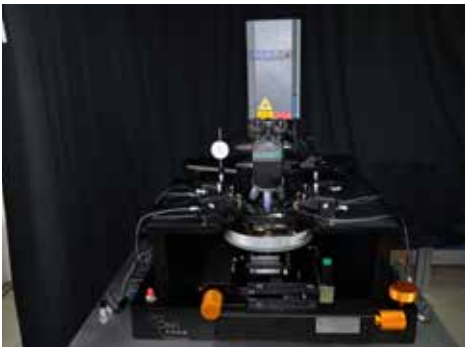


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# 1. Probe Station 探針台 (4" - 6" - 8" - 12" )

產品編號 :BPW-1200



Specification:

## BPW-1200 12" Probe Station 探針台

- 12" wafer stainless vacuum chuck(hot chuck)
- Vacuum on-off switch to control each vacuum ring
- Chuck X-Y stage distance 12"x12"
- Chuck theta rotation manual , Platen quick up-down
- Platen up-down 25mm 解析 10 μm , Microscope mount x-y travel 2"x2"
- Microscope Z 軸氣動快速升降 for easy loading/unloading sample
- X-Y Stage 氣動快速移動及微調線性移動, Heavy and stable bench base
- Upgrade:CCD ,Laser System,Hot Chuck, 防震桌 ,Shielding Box

產品編號 :BPW-800



Specification:

## BPW-800 8" Probe Station 探針台

- 8" Wafer stainless vacuum chuck
- Vacuum on-off switch to control each vacuum ring( 獨立控制 )
- Chuck X-Y stage distance 8" x8" (203.2mmx203.2mm)
- Chuck theta rotation 0° ~ 360° manual
- Platen up-down distance 20 mm
- Platen quick up-down travel 6 mm
- Fast pull-out Y stage for easy loading/unloading sample
- Microscope mount x-y travel 2" x2" (50.8mmx50.8mm)

產品編號 :BPW-600

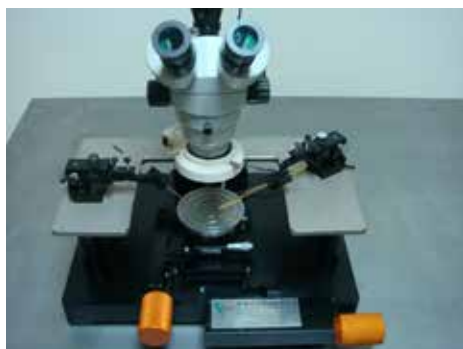


Specification:

## BPW-600 6" Probe Station 探針台

- 6" Wafer stainless vacuum chuck
- Vacuum on-off switch to control each vacuum ring( 獨立控制 )
- Chuck X-Y stage distance 6"x6"(152.4mmx152.4mm)
- Chuck theta rotation 0° ~ 360° manual
- Platen up-down distance 20 mm
- Platen quick up-down travel 6 mm
- Fast pull-out Y stage for easy loading/unloading sample
- Microscope mount x-y travel 2"x2"(50.8mmx50.8mm)

產品編號 :BPE-600

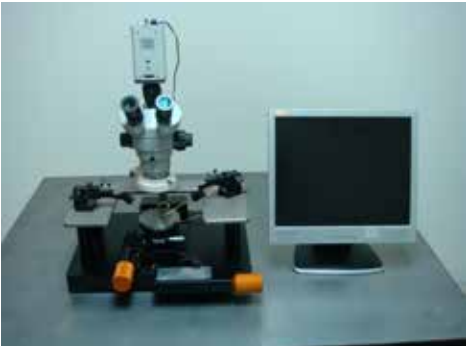


Specification:

## BPE-600 6" Probe Station 探針台

- 6" wafer stainless vacuum chuck
- chuck x-y stage 行程 :101.6mmx101.6mm(4"x4")
- chuck theta rotation 0° ~ 360° manual 微調
- Platen U 型固定不動
- chuck x-y stage 最小移動距離 2μm
- chuck 面積 6 " 平整度 :5μm
- Box 底座尺寸 (450mm 長 x320mm 寬 x50mm 高)

## 產品編號 :BPE-400

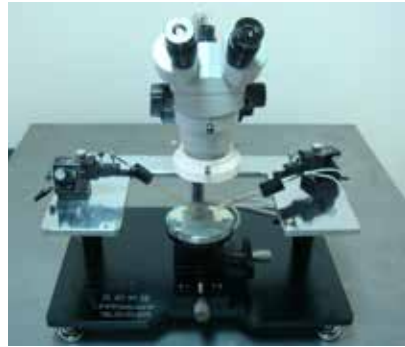


### Specification:

#### BPE-400 4" Probe Station 探針台

- 4" wafer stainless vacuum chuck
- chuck x-y stage 行程 :101.6mmx101.6mm(4" x4" )
- Chuck theta rotation 0° ~ 360° manual 微調
- Platen U 型固定不動
- chuck x-y stage 最小移動距離 2μm
- chuck 面積 4" 平整度 :5μm
- Box 底座尺寸 (450mm 長 x320mm 寬 x50mm 高)

## 產品編號 :BPN-600



### Specification:

#### BPN-600 6" Probe Station 探針台

- 6" wafer stainless vacuum chuck
- Chuck x-y stage 行程 :50.8mmx50.8mm(2" x2" )
- Chuck theta rotation 0° ~ 360° manual 微調
- Platen U 型固定不動
- Chuck x-y stage 最小移動距離 3μm
- Chuck 面積 4" 平整度 :5μm
- Box 底座尺寸 (450mm 長 x320mm 寬 x50mm 高)

## 產品編號 :BPN-400



### Specification:

#### BPN-400 4" Probe Station 探針台

- 4" wafer stainless vacuum chuck
- Chuck x-y stage 行程 :50.8mmx50.8mm(2" x2" )
- Chuck theta rotation 0° ~ 360° manual 微調
- Platen U 型固定不動
- Chuck x-y stage 最小移動距離 3μm
- Chuck 面積 4" 平整度 :5μm
- Box 底座尺寸 (450mm 長 x320mm 寬 x50mm 高)

## 產品編號 :BPL-4030



### Specification:

#### BPL-4030 LCD Probe Station 探針台

- LCD Manual ProbeStation
- Stage 固定不動, 龍門移動式
- 日光燈或 LED 背光系統 (照度值 : ≥ 10000Lux)
- Off-Line, Pannl 以手動取放片 , Manual control
- 防震系統 : 主動式防震氣囊
- 高低溫加熱系統 (-40°C ~ 300°C)
- 採用 Mitutoyo 光學顯微鏡

## 2. Micropositioner 探針座

### Specification: Resolution 0.7 $\mu\text{m}$ (100 TPI)

#### 產品編號 :BT-60

##### BT-60 探針座

- X-Y-Z 行程 : 12x12x12 mm linear movement
- Linear movement resolution: 0.7  $\mu\text{m}$  (100 TPI)
- Dimension: 112x86x108 mm (W x D x H)
- 底座 : 磁性反轉底座 or 真空底座
- 磁性反轉專利證號 :M306330 Weight:650 g
- 搭配直立仰角機構



#### 產品編號 :RF-60

##### RF-60 高頻探針座

- X-Y-Z 行程 : 12x12x12 mm linear movement
- Linear movement resolution: 0.7  $\mu\text{m}$  (100 TPI)
- Dimension: 112x86x108 mm (W x D x H)
- 底座 : 磁性反轉底座 or 真空底座
- 磁性反轉專利證號 :M306330 Weight:650 g
- 搭配 RF 高頻探針 (GS SG GSG)



#### 產品編號 :BL-60

##### BL-60 L 型探針座

- X-Y-Z 行程 : 12x12x12 mm linear movement
- Linear movement resolution: 0.7  $\mu\text{m}$  (100 TPI)
- Dimension: 112x86x108 mm (W x D x H)
- 底座 : 磁性反轉底座 or 真空底座
- 磁性反轉專利證號 :M306330 Weight:650 g
- 搭配 L 型探針桿 (Spring type 彈簧夾針)



#### 產品編號 :BB-60

##### BB-60 大型仰角機構 - 探針座

- X-Y-Z 行程 : 12x12x12 mm linear movement
- Linear movement resolution: 0.7  $\mu\text{m}$  (100 TPI)
- Dimension: 112x86x108 mm (W x D x H)
- 底座 : 磁性反轉底座 or 真空底座
- 磁性反轉專利證號 :M306330 Weight:650 g
- 搭配大型仰角機構



#### 產品編號 :PP-60

##### PP-60 主動式探針座

- X-Y-Z 行程 : 12x12x12 mm linear movement
- Linear movement resolution: 0.7  $\mu\text{m}$  (100 TPI)
- Dimension: 112x86x108 mm (W x D x H)
- 底座 : 磁性反轉底座 or 真空底座
- 磁性反轉專利證號 :M306330 Weight:650 g
- 搭配主動式探針 (Picoprobe)



#### 產品編號 :BT-80

##### BT-80 探針座

- X-Y-Z 行程 : 12x12x12 mm linear movement
- Linear movement resolution: 0.7  $\mu\text{m}$  (100 TPI)
- Dimension: 100x72x95 mm (W x D x H)
- 底座 : 磁性反轉底座 or 真空底座
- 磁性反轉專利證號 :M306330 Weight:680 g
- 搭配直立仰角機構



## 產品編號 :RF-80

### RF-80 高頻探針座

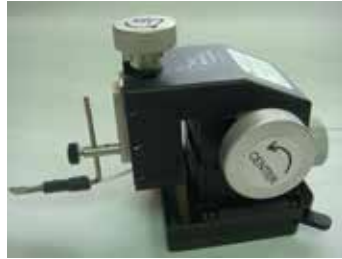
- X-Y-Z 行程 : 12x12x12 mm linear movement
- Linear movement resolution: 0.7  $\mu\text{m}$  (100 TPI)
- Dimension: 100x72x95 mm (W x D x H)
- 底座 : 磁性反轉底座 or 真空底座
- 磁性反轉專利證號 :M306330 Weight:680 g
- 搭配 RF 高頻探針 (GS SG GSG)



## 產品編號 :BL-80

### BL-80 L 型探針座

- X-Y-Z 行程 : 12x12x12 mm linear movement
- Linear movement resolution: 0.7  $\mu\text{m}$  (100 TPI)
- Dimension: 100x72x95 mm (W x D x H)
- 底座 : 磁性反轉底座 or 真空底座
- 磁性反轉專利證號 :M306330 Weight:680 g
- 搭配一般 DC 探針



## 產品編號 :BB-80

### BB-80 大型仰角機構 - 探針座

- X-Y-Z 行程 : 12x12x12 mm linear movement
- Linear movement resolution: 0.7  $\mu\text{m}$  (100 TPI)
- Dimension: 100x72x95 mm (W x D x H)
- 底座 : 磁性反轉底座 or 真空底座
- 磁性反轉專利證號 :M306330 Weight:680 g
- 搭配大型仰角機構



## 產品編號 :PP-80

### PP-80 主動式探針座

- X-Y-Z 行程 : 12x12x12 mm linear movement
- Linear movement resolution: 0.7  $\mu\text{m}$  (100 TPI)
- Dimension: 100x72x95 mm (W x D x H)
- 底座 : 磁性反轉底座 or 真空底座
- 磁性反轉專利證號 :M306330 Weight:680 g
- 搭配主動式探針 (Picoprobe)



## Specification: Resolution 2.0 $\mu\text{m}$ (50 TPI)

## 產品編號 :BT-100

### BT-100 探針座

- X-Y-Z 行程 : 12x12x12 mm linear movement
- Linear movement resolution: 2.0 $\mu\text{m}$  (50 TPI)
- Dimension: 73x48x68 mm (W x D x H)
- 底座 : 磁性反轉底座 or 真空底座, Weight: 200 g
- 磁性反轉專利證號 :M306330 ; 搭配直立仰角機構



## 產品編號 :BL-100

### BL-100 L 型仰角 - 探針座

- X-Y-Z 行程 : 12x12x12 mm linear movement
- Linear movement resolution: 2.0 $\mu\text{m}$  (50 TPI)
- Dimension: 73x48x68 mm (W x D x H)
- 底座 : 磁性反轉底座 or 真空底座, Weight: 200 g
- 磁性反轉專利證號 :M306330 ; 搭配 L 型仰角機構



### 3. Tip Holder 針桿 (Triaxial-Coaxial)

#### 3-1.Triaxial tip holder(Specification: $\leq 100\text{fA}$ Leakage Performance)

產品編號 :TTT-210

Triaxial tip holder( 銅管 Tubular type) 探針桿

- Triaxial cable 2.1m ,connect triaxial (male)
- Less than 100fA Leakage Performance
- Max Voltage: 1000V Maximum current: 10A
- Impedance:50 Ohm 銅管 Tubular type



產品編號 :TTS-210

Triaxial tip holder (Spring type) 探針桿

- Triaxial cable 2.1m ,connect triaxial (male)
- Less than 100fA Leakage Performance
- Max Voltage: 1000V Maximum current: 10A
- Impedance:50 Ohm 彈簧 Spring Type



產品編號 :TTL-210

Triaxial tip holder (Spring L type) 探針桿

- Triaxial cable 2.1m ,connect triaxial (male)
- Less than 100fA Leakage Performance
- Max Voltage: 1000V Maximum current: 10A
- Impedance:50 Ohm 彈簧 Spring L Type



產品編號 :TTB-210

Triaxial tip holder( 銅管 Tubular type) 探針桿

- Triaxial cable 2.1m ,connect Banana(male)
- Less than 100fA Leakage Performance
- Max Voltage: 1000V Maximum current: 10A
- Impedance:50 Ohm 銅管 Tubular type



#### 3-2.Coaxial tip holder(Specification: $\leq 10$ PA Leakage Performance)

產品編號 :CTT-150

Coaxial tip holder ( 銅管 Tubular type) 探針桿

- IMPEDANCE:50 OHMS 接頭 : BNC 公
- Less than 10 PA Leakage Performance
- 線徑 :30AWG Max Voltage: 700V
- 銅管 Tubular type 長度 :1.5 m



產品編號 :CTS-150

Coaxial tip holder (Spring type) 探針桿

- IMPEDANCE:50 OHMS 接頭 : BNC 公
- Less than 10 PA Leakage Performance
- 線徑 :30AWG Max Voltage: 700V
- 彈簧 Spring Type 長度 :1.5 m



### 產品編號 :CTL-150

#### Coaxial tip holder (Spring L 型 type) 探針桿

- IMPEDANCE:50 OHMS 接頭 : BNC 公
- Less than 10 PA Leakage Performance
- 線徑 :30AWG Max Voltage: 700V
- 彈簧 Spring L Type 長度 :1.5 m



### 產品編號 :CTT-250

#### Coaxial tip holder( 銅管 Tubular type) 探針桿

- IMPEDANCE:50 OHMS 接頭 : Banana 公
- Less than 10 PA Leakage Performance
- 線徑 :30AWG Max Voltage: 700V
- 銅管 Tubular type 長度 :1.5 m



### 產品編號 :CTS-350

#### Coaxial tip holder (Spring type) 探針桿

- IMPEDANCE:50 OHMS 接頭 : Banana 公
- Less than 10 PA Leakage Performance
- 線徑 :30AWG Max Voltage: 700V
- 彈簧 Spring Type 長度 :1.5 m



### 產品編號 :CTS-550

#### Coaxial tip holder(Spring type)- 探針桿

- IMPEDANCE:50 OHMS 接頭 : 2 BNC 公
- Less than 10 PA Leakage Performance
- 線徑 :30AWG Max Voltage: 700V
- 彈簧 Spring Type 長度 :1.5 m



### 產品編號 :CTS-650

#### Coaxial tip holder(Spring type)- 探針桿

- IMPEDANCE:50 OHMS 接頭 : 2 Banana 公
- Less than 10 PA Leakage Performance
- 線徑 :30AWG Max Voltage: 700V
- 彈簧 Spring Type 長度 :1.5 m



### 產品編號 :CTS-850

#### Coaxial tip holder(Spring type)- 探針桿

- IMPEDANCE:50 OHMS 接頭 : 鱷魚夾
- Less than 10 PA Leakage Performance
- 線徑 :30AWG Max Voltage: 700V
- 彈簧 Spring Type 長度 :1.5 m





## 4. Cable Assembly 連接線 (Triaxial-Coaxial)

### Cable Assembly Specification:

- Impedance:  $50 \pm 2$  ohm
- Frequency range  $\leq 300$  MHZ
- Maximum Voltage: 1000 VRMS/2000VOC
- Maximum current  $\leq 10$ A
- Leakage Performance  $\leq 100$ fA
- 長度客製化

### 4-1.Triaxial(公) to □ Cable Assembly 連接線

#### 產品編號 :TC001

##### Triaxial(公) to Triaxial(公) Cable

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



#### 產品編號 :TC002

##### Triaxial(公) to 裸線 Cable

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



#### 產品編號 :TC003

##### Triaxial 裸線 Cable

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



#### 產品編號 :TC004

##### Triaxial(公) to Triaxial(母) Cable

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



#### 產品編號 :TC005(1 杜邦端子母)

##### 產品編號 :TC007(2 杜邦端子母)

##### 產品編號 :TC008(3 杜邦端子母)

##### Triaxial(公) to 杜邦端子(母) Cable

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



#### 產品編號 :TC009(1 Banana 母)

##### 產品編號 :TC010(2 Banana 母)

##### 產品編號 :TC011(3 Banana 母)

##### Triaxial(公) to Banana(母) Cable

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



#### 產品編號 :TC012

#### 產品編號 :TC013

#### 產品編號 :TC014

##### Triaxial(公) to Banana(公) Cable

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



#### 產品編號 :TC015

#### 產品編號 :TC016

#### 產品編號 :TC017

##### Triaxial(公) to 鱈魚夾 Cable

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



#### 產品編號 :TC018

#### 產品編號 :TC019

#### 產品編號 :TC020

##### Triaxial(公) to 測試勾 Cable

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC021

**Triaxial(公) to BNC(公) Cable**

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC022

**Triaxial(公) to BNC(母) Cable**

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC023

**Triaxial(公) to SMA(公) cable**

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC024

**Triaxial(公) to SMA(母) cable**

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC104

**Triaxial(公) to Y 端子 Cable**

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC105

**Triaxial(公) to 杜邦端子(公) Cable**

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



## 4-2.Triaxial(母) to □ Cable Assembly 連接線

產品編號 :TC043

**Triaxial(母) to 裸線 Cable**

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC044

**Triaxial(母) to Triaxial(母) Cable**

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC103

**Triaxial(母) to Triaxial(公) Cable**

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC045

產品編號 :TC046

產品編號 :TC047

**Triaxial(母) to 杜邦端子(母) Cable**

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC048

產品編號 :TC049

產品編號 :TC050

**Triaxial(母) to Banana(母) Cable**

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC051(1 Banana)

產品編號 :TC052(2 Banana)

產品編號 :TC053(3 Banana)

**Triaxial(母) to Banana(公) Cable**

- Impedance:  $50 \pm 2$  ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC054

產品編號 :TC055

產品編號 :TC056

**Triaxial(母) to 鱷魚夾 Cable**

- Impedance: 50 ± 2 ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC057

產品編號 :TC058

產品編號 :TC059

**Triaxial(母) to 測試勾 Cable**

- Impedance: 50 ± 2 ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC060

**Triaxial(母) to BNC(公) Cable**

- Impedance: 50 ± 2 ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC061

**Triaxial(母) to BNC(母) Cable**

- Impedance: 50 ± 2 ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC062

**Triaxial(母) to SMA(公) Cable**

- Impedance: 50 ± 2 ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC063

**Triaxial(母) to SMA(母) Cable**

- Impedance: 50 ± 2 ohm 最小漏電流 :100fA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



### 4-3.Triaxial BNC(公) to □ Cable Assembly 連接線

產品編號 :TC025

**Triaxial BNC(公) to 裸線 Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC026(1 杜邦端子 母)

產品編號 :TC027(2 杜邦端子 母)

**Triaxial BNC(公) to 杜邦端子 (母) Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC028(1 Banana 母)

產品編號 :TC029(2 Banana 母)

**Triaxial BNC(公) to Banana(母) Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC030(1 Banana 公)

產品編號 :TC031(2 Banana 公)

**Triaxial BNC(公) to Banana(公) Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC032(1 鱷魚夾)

產品編號 :TC033(2 鱷魚夾)

**Triaxial BNC(公) to 鱷魚夾 Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC034(1 測試勾)

產品編號 :TC035(2 測試勾)

**Triaxial BNC(公) to 測試勾 Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC036

**Triaxial BNC(公) to BNC(母) Cable**

- Impedance:  $50 \pm 2$  ohm Leakage  $\leq 10$ PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC037

**Triaxial BNC(公) to BNC(公) Cable**

- Impedance:  $50 \pm 2$  ohm Leakage  $\leq 10$ PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC038

**Triaxial BNC(公) to SMA(公) Cable**

- Impedance:  $50 \pm 2$  ohm Leakage  $\leq 10$ PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC039

**Triaxial BNC(公) to SMA(母) Cable**

- Impedance:  $50 \pm 2$  ohm Leakage  $\leq 10$ PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC106

**Triaxial BNC(公) to Y 端子 Cable**

- Impedance:  $50 \pm 2$  ohm Leakage  $\leq 10$ PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC107

**Triaxial BNC(母) to Y 端子 Cable**

- Impedance:  $50 \pm 2$  ohm Leakage  $\leq 10$ PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



## 4-4.Triaxial BNC(母) to □ Cable Assembly 連接線

產品編號 :TC064

**Triaxial BNC(母) to 裸線 Cable**

- Impedance:  $50 \pm 2$  ohm Leakage  $\leq 10$ PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC065

**Triaxial BNC(母) to 杜邦端子(母) Cable**

- Impedance:  $50 \pm 2$  ohm Leakage  $\leq 10$ PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC066

**Triaxial BNC(母) to Banana(母) Cable**

- Impedance:  $50 \pm 2$  ohm Leakage  $\leq 10$ PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC068(1 Banana 公)

產品編號 :TC069(2 Banana 公)

**Triaxial BNC(母) to Banana(公) Cable**

- Impedance:  $50 \pm 2$  ohm Leakage  $\leq 10$ PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC070(1 鱷魚夾)

產品編號 :TC071(2 鱷魚夾)

**Triaxial BNC(母) to 鱷魚夾 Cable**

- Impedance:  $50 \pm 2$  ohm Leakage  $\leq 10$ PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC072(1 測試勾)

產品編號 :TC073(2 測試勾)

**Triaxial BNC(母) to 測試勾 Cable**

- Impedance:  $50 \pm 2$  ohm Leakage  $\leq 10$ PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC074

**Triaxial BNC(母) to BNC(母) Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC076

**Triaxial BNC(母) to SMA(公) Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC077

**Triaxial BNC(母) to SMA(母) Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC036

**Triaxial BNC(母) to BNC(公) Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC078

**Triaxial BNC(公) to Y 端子 Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC079

**Triaxial BNC(母) to Y 端子 Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



## 4-5.Triaxial SMA(公) to □ Cable Assembly 連接線

產品編號 :TC040

**Triaxial SMA(公) to SMA(公) Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC041

**Triaxial SMA(公) to SMA(母) Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC042

**Triaxial SMA(母) to SMA(母) Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC081

**Triaxial SMA(公) to 裸線 Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC082(1 杜邦端子 母)

產品編號 :TC083(2 杜邦端子 母)

**Triaxial SMA(公) to 杜邦端子(母) Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC084(1 Banana 母)

產品編號 :TC085(2 Banana 母)

**Triaxial SMA(公) to Banana(母) Cable**

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC086(1 Banana 公)

產品編號 :TC087(2 Banana 公)

Triaxial SMA(公) to Banana(公) Cable

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC088(1 鱈魚夾)

產品編號 :TC089(2 鱈魚夾)

Triaxial SMA(公) to 鱈魚夾 Cable

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC090(1 測試勾)

產品編號 :TC091(2 測試勾)

Triaxial SMA(公) to 測試勾 Cable

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



## 4-6.Triaxial SMA(母) to □ Cable Assembly 連接線

產品編號 :TC092

Triaxial SMA(母) to 裸線 Cable

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC093(1 杜邦端子 母)

產品編號 :TC094(2 杜邦端子 母)

Triaxial SMA(母) to 杜邦端子(母) Cable

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC095(1 Banana 母)

產品編號 :TC096(2 Banana 母)

Triaxial SMA(母) to Banana(母) Cable

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC097(1 Banana 公)

產品編號 :TC098(2 Banana 公)

Triaxial SMA(母) to Banana(公) Cable

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC099(1 鱈魚夾)

產品編號 :TC100(2 鱈魚夾)

Triaxial SMA(母) to 鱈魚夾 Cable

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



產品編號 :TC101(1 測試勾)

產品編號 :TC102(2 測試勾)

Triaxial SMA(母) to 測試勾 Cable

- Impedance: 50 ± 2 ohm Leakage ≤ 10PA
- Operating Voltage: 1000 VRMS/2000VOC
- Frequency range 頻寬 :300 MHZ
- Maximum current: 10A 長度客製化



## 4-7.Coaxial BNC(公) to □ Cable Assembly 連接線

產品編號 :CC109

Coaxial 裸線

- Manufacturer:Belden 83265
- Impedance:50 Ohms Max Voltage:700V
- 線徑 :30 AWG 最小漏電流 :10PA



產品編號 :CC110

Coaxial(公) to 裸線 Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電 ≤ 10PA
- 長度客製化



產品編號 :CC111

Coaxial(公) to Coaxial(公) Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電 ≤ 10PA
- 長度客製化



產品編號 :CC112

Coaxial(公) to BNC(母) Cable

- 線徑 :30 AWG, Max Voltage:700V
- Impedance:50 Ohms, 漏電≤10PA
- 長度客製化



產品編號 :CC113(1 杜邦端子母)

產品編號 :CC114(2 杜邦端子母)

Coaxial(公) to 杜邦端子(母) Cable

- 線徑 :30 AWG, Max Voltage:700V
- Impedance:50 Ohms, 漏電≤10PA
- 長度客製化



產品編號 :CC115(1 Banana 母)

產品編號 :CC116(2 Banana 母)

Coaxial(公) to Banana(母) Cable

- 線徑 :30 AWG, Max Voltage:700V
- Impedance:50 Ohms, 漏電≤10PA
- 長度客製化



產品編號 :CC117(1 Banana 公)

產品編號 :CC118(2 Banana 公)

Coaxial(公) to Banana(公) Cable

- 線徑 :30 AWG, Max Voltage:700V
- Impedance:50 Ohms, 漏電≤10PA
- 長度客製化



產品編號 :CC119(1 鱷魚夾)

產品編號 :CC120(2 鱷魚夾)

Coaxial(公) to 鱷魚夾 Cable

- 線徑 :30 AWG, Max Voltage:700V
- Impedance:50 Ohms, 漏電≤10PA
- 長度客製化



產品編號 :CC121(1 測試勾)

產品編號 :CC122(2 測試勾)

Coaxial(公) to 測試勾 Cable

- 線徑 :30 AWG, Max Voltage:700V
- Impedance:50 Ohms, 漏電≤10PA
- 長度客製化



產品編號 :CC123

Coaxial(公) to SMA(公) Cable

- 線徑 :30 AWG, Max Voltage:700V
- Impedance:50 Ohms, 漏電≤10PA
- 長度客製化



產品編號 :CC124

Coaxial(公) to SMA(母) Cable

- 線徑 :30 AWG, Max Voltage:700V
- Impedance:50 Ohms, 漏電≤10PA
- 長度客製化



產品編號 :CC155

Coaxial(公) to Y 端子 Cable

- 線徑 :30 AWG, Max Voltage:700V
- Impedance:50 Ohms, 漏電≤10PA
- 長度客製化



## 4-8.Coaxial BNC(母) to □ Cable Assembly 連接線

產品編號 :CC128

Coaxial(母) to 裸線 Cable

- 線徑 :30 AWG, Max Voltage:700V
- Impedance:50 Ohms, 漏電≤10PA
- 長度客製化



產品編號 :CC129

Coaxial(母) to Coaxial(母) Cable

- 線徑 :30 AWG, Max Voltage:700V
- Impedance:50 Ohms, 漏電≤10PA
- 長度客製化



產品編號 :CC130

Coaxial(母) to BNC(公) Cable

- 線徑 :30 AWG, Max Voltage:700V
- Impedance:50 Ohms, 漏電≤10PA
- 長度客製化



產品編號 :CC131(1 杜邦端子 母)  
 產品編號 :CC132(2 杜邦端子 母)  
**Coaxial(母) to 杜邦端子(母) Cable**  
 ■線徑 :30 AWG, Max Voltage:700V  
 ■ Impedance:50 Ohms, 漏電≤10PA  
 ■長度客製化



產品編號 :CC133(1 Banana 母)  
 產品編號 :CC134(2 Banana 母)  
**Coaxial(母) to Banana(母) Cable**  
 ■線徑 :30 AWG, Max Voltage:700V  
 ■ Impedance:50 Ohms, 漏電≤10PA  
 ■長度客製化



產品編號 :CC135(1 Banana 公)  
 產品編號 :CC136(2 Banana 公)  
**Coaxial(母) to Banana(公) Cable**  
 ■線徑 :30 AWG, Max Voltage:700V  
 ■ Impedance:50 Ohms, 漏電≤10PA  
 ■長度客製化



產品編號 :CC137(1 鱷魚夾)  
 產品編號 :CC138(2 鱷魚夾)  
**Coaxial(母) to 鱷魚夾 Cable**  
 ■線徑 :30 AWG, Max Voltage:700V  
 ■ Impedance:50 Ohms, 漏電≤10PA  
 ■長度客製化



產品編號 :CC139(1 測試勾)  
 產品編號 :CC140(2 測試勾)  
**Coaxial(母) to 測試勾 Cable**  
 ■線徑 :30 AWG, Max Voltage:700V  
 ■ Impedance:50 Ohms, 漏電≤10PA  
 ■長度客製化



產品編號 :CC141  
**Coaxial(母) to SMA(公) Cable**  
 ■線徑 :30 AWG, Max Voltage:700V  
 ■ Impedance:50 Ohms, 漏電≤10PA  
 ■長度客製化



產品編號 :CC142  
**Coaxial(母) to SMA(母) Cable**  
 ■線徑 :30 AWG, Max Voltage:700V  
 ■ Impedance:50 Ohms, 漏電≤10PA  
 ■長度客製化



產品編號 :CC156  
**Coaxial(母) to Y 端子 Cable**  
 ■線徑 :30 AWG, Max Voltage:700V  
 ■ Impedance:50 Ohms, 漏電≤10PA  
 ■長度客製化



產品編號 :CC145  
**Coaxial(鱷魚夾) to (鱷魚夾) Cable**  
 ■線徑 :30 AWG, Max Voltage:700V  
 ■ Impedance:50 Ohms, 漏電≤10PA  
 ■長度客製化



## 4-9.Coaxial SMA(公 - 母) to □ Cable Assembly 連接線

產品編號 :CC125  
**Coaxial SMA(公) to SMA(公) Cable**  
 ■線徑 :30 AWG, Max Voltage:700V  
 ■ Impedance:50 Ohms, 漏電≤10PA  
 ■長度客製化



產品編號 :CC126  
**Coaxial SMA(母) to SMA(母) Cable**  
 ■線徑 :30 AWG, Max Voltage:700V  
 ■ Impedance:50 Ohms, 漏電≤10PA  
 ■長度客製化



產品編號 :CC127  
**Coaxial SMA(公) to SMA(母) Cable**  
 ■線徑 :30 AWG, Max Voltage:700V  
 ■ Impedance:50 Ohms, 漏電≤10PA  
 ■長度客製化





產品編號 :CC143

Coaxial SMA(母) to 裸線 Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電≤ 10PA
- 長度客製化



產品編號 :CC144

Coaxial SMA(公) to 裸線 Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電≤ 10PA
- 長度客製化



產品編號 :CC148

Coaxial SMA(公) to 鱷魚夾 Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電≤ 10PA
- 長度客製化



產品編號 :CC149

Coaxial SMA(公) to Banana(公) Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電≤ 10PA
- 長度客製化



產品編號 :CC150

Coaxial SMA(公) to Banana(母) Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電≤ 10PA
- 長度客製化



產品編號 :CC151

Coaxial SMA(公) to 杜邦端子(母) Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電≤ 10PA
- 長度客製化



產品編號 :CC152

Coaxial SMA(母) to 鱷魚夾 Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電≤ 10PA
- 長度客製化



產品編號 :CC153

Coaxial SMA(母) to Banana(公) Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電≤ 10PA
- 長度客製化



產品編號 :CC154

Coaxial SMA(母) to Banana(母) Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電≤ 10PA
- 長度客製化



產品編號 :CC157

Coaxial SMA(母) to Y 端子 Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電≤ 10PA
- 長度客製化



產品編號 :CC146

Coaxial(鱷魚夾) to Banana(公) Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電≤ 10PA
- 長度客製化



產品編號 :CC147

Coaxial(鱷魚夾) to Banana(母) Cable

- 線徑 :30 AWG , Max Voltage:700V
- Impedance:50 Ohms , 漏電≤ 10PA
- 長度客製化



## 5. GGB Tungsten Probe Tips

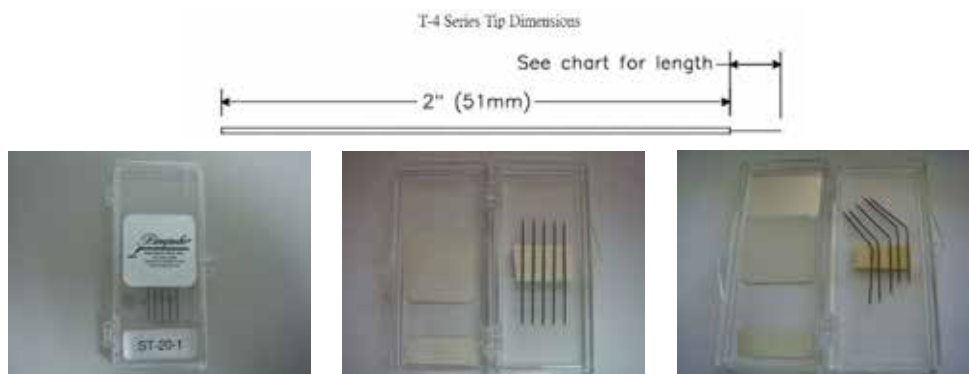
### 5-1. 硬探針 (Tungsten Tip)



ST Series Solid Tungsten Probe Tips

Part Number	Solid Tungsten Shaft Diameter	Point Diameter (in microns)
ST-20-0.5	0.020" (0.51mm)	< 1.0 micron
ST-20-1.0	0.020" (0.51mm)	< 2.0 micron
ST-20-2.0	0.020" (0.51mm)	< 5.0 microns
ST-20-5.0	0.020" (0.51mm)	< 10.0 microns
ST-20-10.0	0.020" (0.51mm)	< 20.0 microns

### 5-2. 軟探針 (Tungsten Tip)



T-4 Series Tungsten Probe Tips

Part Number	Tungsten Probing Wire Shaft Diameter	Point Diameter (in microns)	Tip Length
T-4-5	5 micron	< 0.2 micron	0.13" (3.3mm)
T-4-10	10 micron	< 0.2 micron	0.13" (3.3mm)
T-4-22	22 micron	< 2.0 micron	0.20" (5.1mm)
T-4-35	35 micron	< 4.0 microns	0.20" (5.1mm)
T-4-60	60 micron	< 6.0 microns	0.20" (5.1mm)
T-4-125	125 micron	< 10.0 microns	0.20" (5.1mm)

### 5-3.PGP DC Tip

- Pitch 客製化
- 排針數量客製化
- Adapter 客製化



## 6. GGB RF Probes 高頻探針 (40GHz ~ 500GHz)



### 6-1.High Performance Microwave Probes Model 40A

**Features:**

- Durable RF probe, Pitch from 50 to 2540 micron
- DC to 40 GHz Insertion loss less than 0.8 db
- Variety of footprints, Patented coaxial design
- Individually spring loaded contacts, BeCu, Tungsten or Nickel tips available
- Return loss greater than 18 db, Measurement repeatability better than -80db
- Available in thirteen styles, Custom configurations available, K connector (2.9mm)

Model 40A	
Model 40A style (Mounting Style)	Model Information(part numbering convention):
<ul style="list-style-type: none"> <li>■ P style</li> <li>■ DP style</li> <li>■ EDP style</li> <li>■ LP style</li> <li>■ C style</li> <li>■ T style</li> <li>■ GR style</li> <li>■ VP style</li> <li>■ Q style</li> <li>■ F style</li> <li>■ S style</li> <li>■ DS style</li> <li>■ RVP style</li> </ul>	<p>Model 40A - <b>Configuration</b> - <b>Pitch</b> - <b>Mounting style</b></p> <p><b>Configuration:</b> Specify GSG GS SG for tip placement where S is the signal tip and G is a ground tip. Use the following diagram to determine the appropriate configuration.</p> <p><b>Pitch:</b> Specify ground (G) to signal (S) tip spacing in Microns from 50 to 1250 microns. For standard GSG probes, the two spacings are equal. Contact the factory for spacings larger than 1250 microns or unusual tip placement and spacings.</p> <p><b>Mounting style:</b> Choose from thirteen adapter styles. Specify T, C, GR, P, DP, EDP, LP, Q, F, S, DS, VP, or RVP.</p>

### 6-2.High Performance Microwave Probes Model 50A

**Features:**

- Durable RF probe, Pitch from 50 to 1250 microns
- DC to 50 GHz Insertion loss less than 1.0 db
- Variety of footprints, Patented coaxial design
- Individually spring loaded contacts, BeCu or Tungsten tips available
- Return loss greater than 18 db, Measurement repeatability better than -80db
- Available in thirteen styles, Custom configurations available, 2.4mm connector

Model 50A	
Model 50A style (Mounting Style)	Model Information(part numbering convention):
<ul style="list-style-type: none"> <li>■ P style</li> <li>■ DP style</li> <li>■ EDP style</li> <li>■ LP style</li> <li>■ C style</li> <li>■ T style</li> <li>■ GR style</li> <li>■ VP style</li> <li>■ Q style</li> <li>■ F style</li> <li>■ S style</li> <li>■ DS style</li> <li>■ RVP style</li> </ul>	<p>Model 50A - <b>Configuration</b> - <b>Pitch</b> - <b>Mounting style</b></p> <p><b>Configuration:</b> Specify GSG GS SG for tip placement where S is the signal tip and G is a ground tip. Use the following diagram to determine the appropriate configuration.</p> <p><b>Pitch:</b> Specify ground (G) to signal (S) tip spacing in Microns from 50 to 1250 microns. For standard GSG probes, the two spacings are equal. Contact the factory for spacings larger than 1250 microns or unusual tip placement and spacings.</p> <p><b>Mounting style:</b> Choose from thirteen adapter styles. Specify T, C, GR, P, DP, EDP, LP, Q, F, S, DS, VP, or RVP.</p>

### 6-3.High Performance Microwave Probes Model 67A

**Features:**

- Durable RF probe, Pitch from 50 to 1250 microns
- DC to 67 GHz Insertion loss less than 1.1 db
- Variety of footprints, Patented coaxial design
- Individually spring loaded contacts, BeCu or Tungsten tips available, Coplanar probe tips
- Return loss greater than 14 db, Measurement repeatability better than -80db
- Available in thirteen styles, Custom configurations available

Model 67A	
Model 67A style (Mounting Style)	Model Information(part numbering convention):
<ul style="list-style-type: none"> <li>■ P style</li> <li>■ DP style</li> <li>■ EDP style</li> <li>■ LP style</li> <li>■ C style</li> <li>■ T style</li> <li>■ GR style</li> <li>■ VP style</li> <li>■ Q style</li> <li>■ F style</li> <li>■ S style</li> <li>■ DS style</li> <li>■ RVP style</li> </ul>	<p>Model 67A - <b>Configuration</b> - <b>Pitch</b> - <b>Mounting style</b></p> <p><b>Configuration:</b> Specify GSG GS SG for tip placement where S is the signal tip and G is a ground tip. Use the following diagram to determine the appropriate configuration.</p> <p><b>Pitch:</b> Specify ground (G) to signal (S) tip spacing in Microns from 50 to 1250 microns. For standard GSG probes, the two spacings are equal. Contact the factory for spacings larger than 1250 microns or unusual tip placement and spacings.</p> <p><b>Mounting style:</b> Choose from thirteen adapter styles. Specify T, C, GR, P, DP, EDP, LP, Q, F, S, DS, VP, or RVP.</p>

## 6-4.High Performance Microwave Probes Model 110A

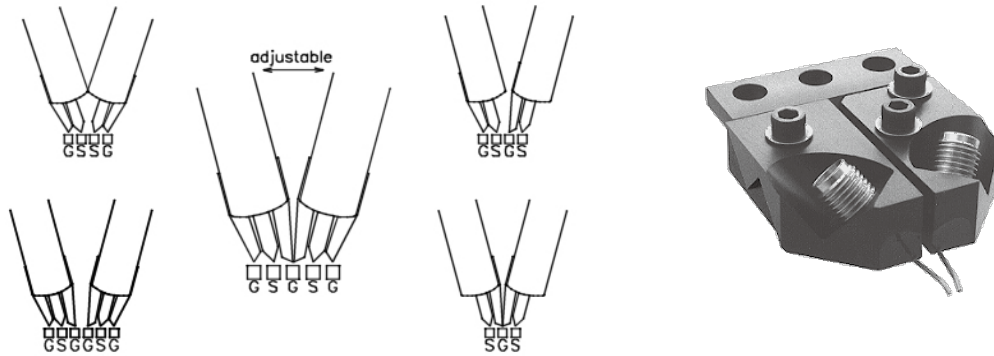
### Features:

- Durable , Patented Coaxial Design , DC to 110 GHz
- Individually Spring-loaded Contacts
- Insertion loss 1.5 db (110H) , Return loss 15 db (110H)
- Utilizes the 1.0 mm female connector

## 6-5.High Performance Microwave Probes Dual Microwave Probe

### Features:




- Two probes on one positioner
- Same performance as individual Model 40A, 50A, 67A, and 110H probes
- Ground to signal spacing from 50 to 2540 microns
- Patented coaxial design
- Signal to signal spacing is user adjustable
- Differential calibration substrates available for two, three and four port calibrations






Dual Microwave Probe	
Dual Microwave Probe Style	Model Information(part numbering convention):
<ul style="list-style-type: none"> <li>■ GSSG</li> <li>■ GSGS</li> <li>■ GSGGSG</li> <li>■ GSGGSG</li> <li>■ SGS</li> </ul>	<p>To order a Dual Probe, use our regular Model 40A literature as a guide to specify each probe individually.</p> <p>Then, the orientation of the two probes is specified from left to right looking from the top with the probe tips facing towards you. For example, a <b>40A-GSG-150 /40A-SG-150-D-300</b> is a dual probe. The left probe has a GSG footprint with 150 microns between the grounds and signal. The right probe has a SG footprint with 150 microns between the ground and signal. The spacing between the signal of the left probe and the signal of the right probe is 300 microns.</p> <p>Microwave probes with frequencies up to 110GHz are available.</p> <p>Choose from either the Model 40A (2.9mm connector), Model 50A (2.4mm connector) Model 67A (1.85mm connector) or the Model 110H (1.0mm connector).</p>

## 7. GGB Picoprobe 主動式探針 & Arm(12C-18C-19C-28C-29C-34A-35)


### 7-1.Picoprobe Model 12C Replacement Tips & Picoprobe Arm

12C Picoprobe Arm Specifications		Picoprobe Model 12C Replacement Tips				
Input Capacitance	0.1pf	Part Number	Tungsten Wire Shaft Diameter	Point Radius		
Input Resistance	1.0 megohm	12C-1-5	5 micron	<0.1 micron		
Rise/Fall Time	0.8ns	12C-1-10	10 micron	<0.1 micron		
Bandwidth	dc to 500 MHz	12C-1-22	22 micron	<1.0 micron		
Linearity	0.5%	12C-1-35	35 micron	<2.0 micron		
Voltage Range	-10 to +20V*	12C-1-60	60 micron	<3.0 micron		
Gain Accuracy	±3%	12C-1-125	125 micron	<5.0 micron		
Signal Attenuation	(High Input impedance oscilloscope: 10 to1) (50 ohm input: 20 to 1)					
		12C-2-5	5 micron	<0.1 micron		
		12C-2-10	10 micron	<0.1 micron		
		12C-2-22	22 micron	<1.0 micron		
		12C-2-35	35 micron	<2.0 micron		
		12C-2-60	60 micron	<3.0 micron		
		12C-2-125	125 micron	<5.0 micron		
		12C-4-5	5 micron	<0.1 micron		
		12C-4-10	10 micron	<0.1 micron		
		12C-4-22	22 micron	<1.0 micron		
		12C-4-35	35 micron	<2.0 micron		
		12C-4-60	60 micron	<3.0 micron		
		12C-4-125	125 micron	<5.0 micron		


### 7-2.Picoprobe Model 18C 19C Replacement Tips & Picoprobe Arm

Specifications	Model 18C Arm	Model 19C Arm	Model 18C and Model 19C Replacement Tips				
Input Capacitance*	0.02pF	0.02pF	Standard Part Number	Higher Voltage Part Number	Tungsten Wire Shaft Diameter	Point Radius	
Input Leakage	10 femtoamps	10 femtoamps	18C-1-5	18C-1-5-HV	5 micron	<0.1 micron	
Rise/Fall Time	1.2ns	1.2ns	18C-1-10	18C-1-10-HV	10 micron	<0.1 micron	
Frequency Response	dc to 350 MHz	dc to 350 MHz	18C-1-20	18C-1-20-HV	20 micron	<1.0 micron	
Operating Range	0 to + 10V range **	-7 to + 3V***	18C-1-50	18C-1-50-HV	50 micron	<3.0 micron	
Linearity	0.2% 5V range / 2.0% 10V range	0.2% ± 3V range / 2.0% -7 to +3V range					
Gain Accuracy	±5%	±5%	18C-2-5	18C-2-5-HV	5 micron	<0.1 micron	
Signal Attenuation	(High input impedance oscilloscope) 10 to 1 (50 ohm input) 20 to 1	(High input impedance oscilloscope) 10 to 1 (50ohm input) 20 to 1	18C-2-10	18C-2-10-HV	10 micron	<0.1 micron	
			18C-2-20	18C-2-20-HV	20 micron	<1.0 micron	
			18C-2-50	18C-2-50-HV	50 micron	<3.0 micron	
*For 3ns or longer rise and fall signals. Speed limitations of the capacitance cancelling circuitry results in approximately 0.06pF input capacitance for 1ns or shorter rise or fall inputs.							
** For 0V to +15V please see the higher voltage part number in the table below.			18C-4-5	18C-4-5-HV	5 micron	<0.1 micron	
***For -7V to +8V please use the higher voltage part number in the table below.			18C-4-10	18C-4-10-HV	10 micron	<0.1 micron	
Requires the use of a Picoprobe Power Supply. Please specify 110V or 220V when ordering.			18C-4-20	18C-4-20-HV	20 micron	<1.0 micron	
			18C-4-50	18C-4-50-HV	50 micron	<3.0 micron	

### 7-3. Picoprobe Model 28C 29C Replacement Tips & Picoprobe Arm

Specifications	Model 28 Arm	Model 29 Arm	Picoprobe® Model 28 and 29 Replacement Tips			
Input Capacitance	0.04pF	0.04pF	Part Number	Tungsten Probing Wire Shaft Diameter	Point Radius	
Input Leakage	10 femtoamps	10 femtoamps	28-5-5	5 micron	<0.1 micron	
Rise/Fall Time	350ps (+5V pulse or less)	350ps (±2.5V pulse or less)	28-5-10	10 micron	<0.1 micron	
Frequency Response	dc to 1GHz (-3dB)	dc to 1GHz (-3dB)	28-5-20	20 micron	<1.0 micron	
Operating Range	-3 to +10V	-7 to +6V	28-5-50	50 micron	<3.0 micron	
Linearity	0.5%(-1 to +4V range) / 2.0%(+3 to +10V range)	0.5%(-2 to +2V range) / 2.0%(-7 to +6V range)	Picoprobe® Model 29 uses Picoprobe® Model 28 probe tips.			
Gain Accuracy	±3%	±3%				
Signal Attenuation	20 to 1 (50ohm input)	20 to 1 (50ohm input)				

### 7-4. Picoprobe Model 34A 35 Replacement Tips & Picoprobe Arm

Model 34A Arm Specifications		Picoprobe® Model 28 and 29 Replacement Tips			
Input Capacitance	0.1pf	Part Number	Tungsten Probing Wire Shaft Diameter	Point Radius	
Input Resistance	10.0 megohm	34A-4-5	5 micron	<0.1 micron	
Rise/fall time	120 ps (5V pulse)	34A-4-10	10 micron	<0.1 micron	
Frequency Response	DC to 3 GHz (-3dB)	34A-4-22	22 micron	<1.0 micron	
Operating Range	-7V to +10V	34A-4-35	35 micron	<2.0 micron	
Linearity	0.50%	34A-4-60	60 micron	<3.0 micron	
Gain Accuracy	±3%	34A-4-125	125 micron	<5.0 micron	
Signal Attenuation	20:1				

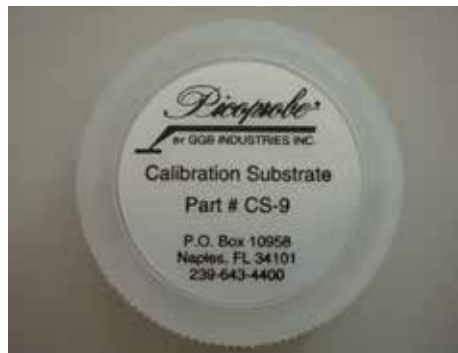
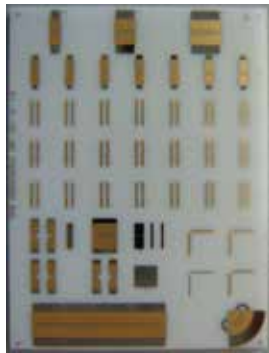
The PICOPROBE MODEL 34A was engineered to meet the stringent demands of advanced high frequency circuit designers. This high impedance probe combines full DC capability, rise/fall times of 120 ps, and a nominal loading input impedance of 10 megohm shunted by 0.1 pf. Signal attenuation is 20:1 with a 50 ohm oscilloscope input. Like our other active probes, the Model 34A achieves its bandwidth using just one probe point, which greatly simplifies internal node testing without sacrificing performance. An assortment of user replaceable probe tips are available for a variety of probing needs. The Model 34A is powered by our standard Picoprobe® power supply.

Model 35 Arm Specifications		Picoprobe Model 35 Tips		
Input Capacitance	0.05pF	Part Number	Tungsten Probing Wire Shaft Diameter	Point Radius
Input Resistance	1.25 megohms	35-1-5	5 micron	<0.1 micron
Rise/Fall Time	14 ps (3V pulse or less)	35-1-10	10 micron	<0.1 micron
Frequency Response	dc to 26GHz	35-1-22	22 micron	<1.0 micron
Operating Range	-6 to +6V	35-1-35	35 micron	<2.0 micron
Linearity	2% (+/-3V)			
Signal Attenuation	10 to 1 (50ohm input)			

The Picoprobe Model 35 has been engineered to meet the stringent demands of advanced high frequency circuit designers. This probe combines full DC capability, rise/fall times of 14 ps, and a nominal loading input impedance of 1.25 megohms shunted by 0.05 pf. Signal attenuation is 10:1 with a 50 ohm oscilloscope input. Like our other active probes, the Model 35 achieves its bandwidth using just one probe point, which greatly simplifies internal node testing without sacrificing performance. An assortment of user replaceable probe tips are available for a variety of probing needs. The Model 35 is powered by our new PS-3 power supply.

## 8. Calibration Substrate( 校正片 )

### 8-1. Calibration Substrates Specification:



- Supports Precise SOLT, LRL/TRL, and LRM/TRM calibrations
- Includes CalKit software for easy loading to Network Analyzer
- Wide pitch range from 30 to 2,540 microns
- Suitable for all Picoprobes® from DC to 220 GHz
- Available for GS, SG, GSG Footprints
- Convenient alignment structures
- Individually tested and trimmed to exacting standards

#### Calibration Substrate Selection Guide

Calibration Substrate	Pad Size (microns)	Calibration Types Supported	Footprint	Pitch Range Recommended (microns)	Pitch Range Acceptable (microns)
CS-5	50 X 50	SOLT, LRL, LRM	GSG	75 - 250	75 - 250
CS-9	100 X 100	SOLT, LRL, LRM	GSG	250 - 600	150 - 600
CS-10	150 X 150	SOLT, LRM	GSG	600 - 1250	225 - 1250
CS-18	300 X 300	SOLT, LRM	GSG	1250 - 2540	500 - 2540
CS-8	50 X 50 100 X 100 150 X 150	SOLT, LRM	GS, SG	50 - 200	50 - 300
CS-14	100 X 100	SOLT, LRM	GS, SG	200 - 400	150 - 600
CS-11	150 X 150	SOLT, LRM	GS, SG	400 - 1250	175 - 1250
CS-17	300 X 300	SOLT, LRM	GS, SG	750 - 2540	450 - 2540
Special Calibration Substrate Designed For Use Above 110 GHz					
Calibration Substrate	Pad Size (microns)	Calibration Types Supported	Footprint	Pitch Range Recommended (microns)	Pitch Range Acceptable (microns)
CS-15	25 X 25	SOLT, LRL, LRM	GSG	40 - 150 (SOLT) 30 - 150 (LRL)	40 - 150
* SOLT = Short-Open-Load-Through LRL = Line-Reflect-Line (Which is equivalent to TRL = Through-Reflect-Line) LRM = Line-Reflect-Match (Which is equivalent to TRM = Through-Reflect-Match)					

## 8-2. Differential Calibration Substrates:

Calibration Substrate Selection Guide					
Calibration Substrate	Pad Size (microns)	Calibration Types Supported	Footprint	Pitch Range Recommended (microns)	Acceptable Pitch
CS-2-50	25 X 25	SOLT, LRL,LRM	GSGSG	50	45-55
CS-2-75	25 X 25	SOLT, LRL,LRM	GSGSG	75	70-80
CS-2-100	50 X 50	SOLT, LRL,LRM	GSGSG	100	90 - 110
CS-2-125	50 X 50	SOLT, LRL,LRM	GSGSG	125	115 - 135
CS-2-150	50 X 50	SOLT, LRL,LRM	GSGSG	150	140 -160
CS-2-200	50 X 50	SOLT, LRL,LRM	GSGSG	200	190 - 210
CS-2-250	50 X 50	SOLT, LRL,LRM	GSGSG	250	240 -260
CS-2-500	100 X 100	SOLT, LRL,LRM	GSGSG	500	490 - 510
CS-2-1000	150 X 150	SOLT, LRL,LRM	GSGSG	1000	990 - 1010
CS-2-1250	150 X 150	SOLT, LRL,LRM	GSGSG	1250	1225 - 1275

FIGURE 2

Calibration Substrate	Pad Size (microns)	Calibration Types Supported	Footprint	Pitch Range Recommended (microns)	Acceptable Pitch
CS-3-50	25 X 25	SOLT, LRM	GSSG	50	45-60
CS-3-75	25 X 25	SOLT, LRM	GSSG	75	65-85
CS-3-100	50 X 50	SOLT, LRM	GSSG	100	85 - 115
CS-3-125	50 X 50	SOLT, LRM	GSSG	125	110 - 140
CS-3-150	50 X 50	SOLT, LRM	GSSG	150	135 -165
CS-3-175	50 X 50	SOLT, LRM	GSSG	175	160 - 190
CS-3-200	50 X 50	SOLT, LRM	GSSG	200	185 - 215
CS-3-250	100X 100	SOLT, LRM	GSSG	250	200 - 300
CS-3-350	100 X 100	SOLT, LRM	GSSG	350	300 - 400
CS-3-450	100 X 100	SOLT, LRM	GSSG	450	400 - 500
CS-3-500	150 X 150	SOLT, LRM	GSSG	500	425 - 525
CS-3-600	100 X 100	SOLT, LRM	GSSG	600	550 - 625
CS-3-800	300 X 300	SOLT, LRM	GSSG	800	600 - 1000
CS-3-1000	300 X 300	SOLT, LRM	GSSG	1000	800 - 1075
CS-3-1250	300 X 300	SOLT, LRM	GSSG	1250	1050 - 1325
CS-4-150	50 X 50	SOLT, LRM	SGS	150	140 - 160
CS-4-250	100 X 100	SOLT, LRM	SGS	250	225 - 275



## 9. Triaxial Adapter 轉接頭

### Specification:

- Impedance:50 Ohm
- Max Frequency:500 MHz
- Contact Plating:Gold(金)

產品編號 :EBJ73

Triaxial(母) to Triaxial(母) 可夾板 Adapter



產品編號 :EPL75

Triaxial(公) to Coaxial(母) Adapter



產品編號 :EBJ74

Triaxial(母) to Coaxial(母) Adapter



產品編號 :EPL20

Triaxial(母) to Coaxial(公) Adapter



產品編號 :EBN73

Triaxial(1公) to Triaxial(2母) Adapter



產品編號 :EBJ72

Triaxial(母) to 可焊接 Adapter



產品編號 :ECBBJR159

Triaxial(母) to Triaxial 可銲接印刷電路板 Adapter



產品編號 :ECBBJR74

Triaxial(母) to Triaxial 可銲接印刷電路板 Adapter



產品編號 :ECBBJ79

Triaxial(母) to 可銲接 PCB Adapter



產品編號 :EADRMF70

Triaxial(公) to Triaxial(母) Adapter



產品編號 :EBN83

Triaxial(TNC母) to Triaxial(2母) Adapter



產品編號 :EPL750

Triaxial(公) 連接 Cable Adapter



## 10. Coaxial Adapter 轉接頭

### Specification:

- Impedance:50 Ohm ; Max Frequency - 4 GHz

產品編號 :SM3408

BNC(公) to BNC(母)-Adapter



產品編號 :SM3411

BNC(公) to BNC(公)-Adapter



產品編號 :SM3452

BNC(公) to BNC(母)-L型 Adapter



產品編號 :SM3448

BNC(公) to BNC(2母)-T型 Adapter



產品編號 :SM3655

BNC(公) to BNC(3母)-Adapter



產品編號 :SM3651

BNC(公) to BNC(2公)-Adapter



產品編號 :SM4716

BNC(公) to SMA(公)-Adapter



產品編號 :SM4726

BNC(公) to SMA(母)-Adapter



產品編號 :SM3652

BNC(公) to Banana(公)-Adapter



產品編號 :SM3515

BNC(公) to N(母)-Adapter



產品編號 :SM3954

BNC(公) to RCA(母)-Adapter



產品編號 :SM3659

BNC(公) to Banana(2公)-Adapter



產品編號 :SM3520  
BNC(公) to N(公)-Adapter



產品編號 :SM3415  
BNC(母) to BNC(母)-Adapter



產品編號 :SM3416  
BNC(母) to BNC(母)-可夾板 Adapter



產品編號 :SM6140  
BNC(母) to RCA(公)-Adapter



產品編號 :SM4721  
BNC(母) to SMA(公)-Adapter



產品編號 :SM4709  
BNC(母) to SMA(母)-Adapter



產品編號 :SM3510  
BNC(母) to N(公)-Adapter



產品編號 :SM3418  
BNC(母) to BNC(2母)-T型 Adapter



產品編號 :SM3653)  
BNC(母) to BNC(2公)-Adapter



產品編號 :SM3656)  
BNC(母) to Banana(公)-Adapter



產品編號 :SM3657  
BNC(母) to Banana(2公)-Adapter



產品編號 :SM3658)  
BNC(母) to Banana(2母)-Adapter

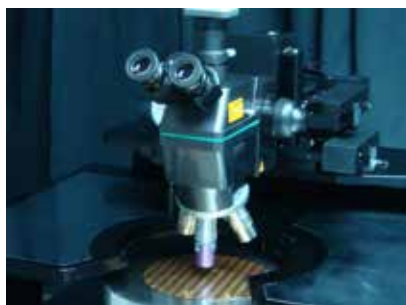


# 11. Microscope 顯微鏡 (Mitutoyo-Motic- 立體顯微鏡)

## 11-1.Mitutoyo 金像顯微鏡

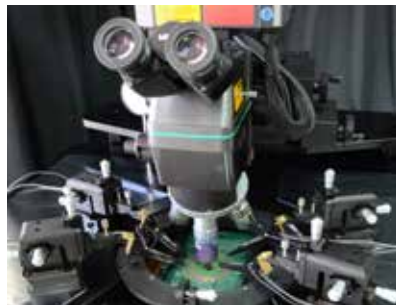
### Mitutoyo FS-70Z 高倍顯微鏡

- Trinocular tube image:Erect Image
- Pupil distance:Adjustment Range 51-76mm
- Main unit:1x-2x Zoom
- Loding Weight:13.5kg
- Mass:6.2 kg



### Mitutoyo FS-70L 高倍顯微鏡

- Trinocular tube image:Erect Image
- Pupil distance:Adjustment Range 51-76mm
- Main unit:1x
- Applicable YAG laser:1064/532/355 nm
- Loding Weight:13.5kg
- Mass:6.8 kg



## 11-1-1.Mitutoyo 金像顯微鏡 Eyepiece

- Mitutoyo 目鏡 eyepiece 10X
- Mitutoyo 目鏡 eyepiece 15X
- Mitutoyo 目鏡 eyepiece 20X



## 11-1-2.Mitutoyo 物鏡

### Mitutoyo M plan Apo 物鏡

Best Order No	Magnification	N.A.	Working Distance(mm)	f(mm)	R(μm)	DOF(μm)	Mass(g)
Best-800	1x	0.025	11	200	11	440	300
Best-801	2x	0.055	34	100	5	91	220
Best-802-2	5x	0.14	34	40	2	14	230
Best-803-2	10x	0.28	33.5	20	1	3.5	230
Best-804-2	20x	0.42	20	10	0.7	1.6	370
Best-805-2	50x	0.55	13	4	0.5	0.9	290
Best-806-3	100x	0.7	6	2	0.4	0.6	320

### Mitutoyo M plan Apo NIR 物鏡

Best Order No	Magnification	N.A.	Working Distance(mm)	f(mm)	R(μm)	DOF(μm)	Mass(g)
Best-822-4	5x	0.14	37.5	40	2	14	220
Best-823-5	10x	0.26	30.5	20	1.1	4.1	250
Best-824-4	20x	0.4	20	10	0.7	1.7	300
Best-825-5	50x	0.42	17	4	0.7	1.6	315
Best-826-5	100x	0.5	12	2	0.6	1.1	335

### Mitutoyo M plan Apo NUV 物鏡

Best Order No	Magnification	N.A.	Working Distance(mm)	f(mm)	R(μm)	DOF(μm)	Mass(g)
Best-817-4	20x	0.4	17	10	0.7	1.7	340
Best-818-4	50x	0.42	15	4	0.7	1.6	350
Best-819-4	100x	0.5	11	2	0.6	1.1	380

## Mitutoyo M plan UV 物鏡

Best Order No	Magnification	N.A.	Working Distance(mm)	f(mm)	R(μm)	DOF(μm)	Mass(g)
Best-837-5	20x	0.36	15	10	0.8	2.1	330
Best-838-5	50x	0.4	12	4	0.7	1.7	400
Best-839-5	80x	0.55	10	2.5	0.5	0.9	380

### 11-1-3.Mitutoyo Polarizer 偏光鏡 11-4.Motic 金像顯微鏡



#### PSM-1000

- 目鏡 :WF10x/24
- 視場直徑  $\phi$ 24mm 獨立校正色差
- Pupil distance:Adjustment Range 55-75mm
- 粗微調焦機構：行程 52mm
- 最大承載重量 :20.4 kg



### 11-5. 立體顯微鏡

#### Best-M001 Stereo Zoom Microscope

- Eyepiece:20x or 30X
- 1~6.5X Zoom
- Total magnification: 30X ~ 195X
- Microscope Z 軸粗微調機構
- 高亮度 LED 無段式調整
- 搭配 CCD system (Upgrade)



### 11-6. 可調 LED 環型燈源

#### 產品編號 :LED-69T

- 白光高亮度 LED 光源
- 無段調整亮度
- 搭配立體顯微鏡
- 工作距離 :60mm ~ 150mm
- 電壓 :DC 12V
- 尺寸 : 內徑 62mm 外徑 97mm



### 11-7.LightBox 光源機

#### 產品編號 :AXEN-110

- 電 源 :110V/220V AC 60HZ ; 採分離式電源線
- 燈 源 : 鹵素燈泡 15V/150W
- Fuse: 250V/3A
- Dimension: 93mm(W) x 211mm(D) x 118mm(H)
- Weight:2.2Kg



### 11-8. 光纖線

- 長度客製化
- Adapter 客製化



### 11-9. 光源機杯燈



### 11-10. 磁性反轉底座 (小)



### 11-11. 磁性反轉底座 (大)



## 12. CCD 影像擷取系統 (Sony-Sentech-Watec)

Watec-221S	SONY CCD SSC-G813		
<p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>Effective picture elements:380,000 (768 x 494) 像素</li> <li>訊號輸出: 類比訊號 Analog , Image device:1/2-type</li> <li>水平解析度 :480 TV lines , Size:64.5(L)x43.5(W)x44(H) mm</li> <li>Power requirements:DC + 12 V ±10 % , Mass:160 g</li> </ul> 	<p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>Effective picture elements:440,000 (752 x 582) 像素</li> <li>Power requirements:AC 24 V ±10 % , 50 Hz or DC 12 V ±10 %</li> <li>Image device:1/2-type , Dimensions (φ x H):63x57x124 mm</li> <li>S/N ratio:More than 57 dB (AGC Off) , Mass:390 g</li> </ul> 		
CCD-SENTECH STC-N63CJ	New Wave Laser System		
<p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>Image device:1/3 interline transfer CCD</li> <li>解析度 :768(H)x494(V)</li> <li>照度 :0.19 Lux at F1.2 , 工作溫度 :-10° ~ 45°C</li> <li>Power requirements:DC + 12 V ±10 %</li> <li>Mass:70 g , Size:36(W)x36(H)x36.5(D) mm</li> </ul> 	<p>Infrared(1064 nm)    Green(532 nm)    Ultraviolet(355 nm or 266 nm)</p>		
LCDMaterials	ITO, Chromium, Color Filter-red, green	ITO, Chromium, Color Filter-blue / green	Color,Filter-blue/green
Semiconductor Materials	Silicon Dioxide, Nitride ,Polyimide (big cuts), SOG, Poly-silicon		Nitride, Polyimide
Metals	Aluminum, Gold, Ti-Tungsten	Gold, Aluminum, Ti-Tungsten	Gold, Aluminum

## 13. MEDO 超靜音真空幫浦

VP-0125 Vacuum Pump( 產品編號 :VP-0125)	VP-0625 Vacuum Pump( 產品編號 :VP-0625)
<p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>真空度 :-33.3 kPa (-250mmHg)</li> <li>吐出空氣 :7 Liter/min</li> <li>Power:AC100V, 50Hz, 15W, 0.35A</li> <li>Size: 90(L) x 58(W) x 80(H)mm / 0.7 Kg</li> </ul> 	<p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>真空度 :-33.3 kPa (-250mmHg)</li> <li>吐出空氣 :40 Liter/min</li> <li>Power:AC110V, 50Hz, 60W, 1.4A</li> <li>Size: 175(L) x 118(W) x 138(H)mm / 3.0 Kg</li> </ul> 

## 14. Shielding Box 黑箱 & 防震桌 & Hot Chuck

### Shielding Box 防干擾黑箱

- Shielding Box for 4" 6" 8" 12" Probe Station
- 8\*BNC Feedthru (Triaxial Feedthru Available)
- Size: 1350(H) x 1320(W) x 1020(L) mm
- 客制化尺寸



### 防震桌 (主動式防震氣囊)

- Dimensions 桌面 1220mmx920mmx50mm(長 x 寬 x 高)
- Vertical Natural Frequency:1.9 Hz
- Maximum Load:80 psi
- 承載重量 ≤ 363 kg
- Isolation Efficiency @ 10 Hz 97%



### 防震桌 (被動式防震氣囊)

- Dimensions 桌面 1220mmx920mmx50mm(長 x 寬 x 高)
- 溫度使用範圍 :-10°C ~ 60°C ; 防振頻率 : 自然頻率 3Hz~5Hz
- 設備效率可達 97% 以上
- 總承載重量 ≤ 400kg
- 氣門嘴 : CNS TV-10 標準螺紋



### LiquidCrystal(液晶)

- 29°C



### JUN Air 超靜音空氣壓縮機

產品編號 : Best-3-4

- 電壓 : 110V/220V
- 供氣能力 1/min./CFM:17/0.60
- 最大壓力 bar/PSI:8/120
- 電流 : 0.9 A
- 重量 Kg:18, 噪音 dB(A)/1m:35
- 外觀體積 LxWxH(mm):384x333x342
- 頻率 Hz:50
- 儲氣容量 : 4 liter



### Probe Card holder 探針卡治具

- 4.5 PCB probe card holder



### Hot Chuck

- Chuck Size: 4" 6" 8" 12"
- Chuck Planarization: +/- 10um
- Temp. Range: Ambient ~ 600° C
- Temperature Accuracy: +/- 0.5° C
- Power to Heat: AC/DC
- Power max1800W 50/60HZ
- 客製化 Hot Chuck
- 低溫 Chuck



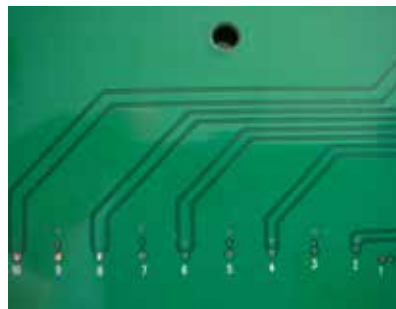
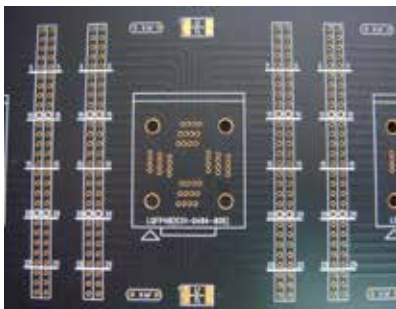
# 15. PCB Layout PCB Manufacturing PCB Assembly Service

## Design Experience

- IC test board
- Reliability test board
- Motherboard
- DSC
- Video
- Wireless
- GPS
- IA products

## PCB 製程能力

項目	標準產品技術層次	中、高階產品層次
Layer	2-12 Layer	14-18 Layers
基板板 / PP Laminate / PP		
最大板厚	196.9 mil (5.00mm)	236.2 mil (6.00mm)
最小板厚 (四層板)	16 mil (0.4mm)	15 mil (0.38mm)
最小板厚 (雙面板板)	12 mil (0.3mm)	9.8 mil (0.25mm)
最小內層板厚	4 mil (0.10mm) 不含銅	2 mil (0.05mm) 不含銅
最大工作尺寸	18" X 24" (457.2 X 609.6 mm)	24" X 26" (533.4 X 609.6 mm)
最小 PP 厚度	2.0 mil (0.05mm)	2.3mil (0.051mm)
銅層 Copper :		
最大內層銅厚	2.0 oz	3.0 oz
最小內層銅厚	0.5 oz	0.3 oz
最大外層銅厚	2.0 oz	5.0 oz
最小外層銅厚	0.5 oz	0.3 oz
通孔線路疊構 Through hole trace stack up :		
產品疊構	一般硬質電路板 · 軟板	盲 / 埋孔
最小鑽孔孔徑	10 mil (0.25mm)	8 mil (0.2mm)
最小雷射孔徑	4 mil (0.100mm)	3 mil (0.076mm)
最大縱橫比		
線路配置 Trace :		
外層線路之線寬 / 距	4/4 mil	3/3 mil
內層線路之線寬 / 距	4/4 mil	3/3 mil
最小 SMT 焊墊間距	12 mil (0.3 mm)	8 mil (0.2 mm)
最小 BGA 焊墊間距	6 mil (0.15 mm)	4 mil (0.1 mm)
防焊及表面處理 Solder mask and surface treatment :		
最小防焊印刷寬度	4 mil (0.102 mm)	3 mil (0.075 mm)
防焊對位誤差控制	± 3 mil	± 2 mil
表面處理方式	Entek, ENIG, HASL	Immersion Silver, Tin





## 16. 各式烤箱銷售 (Oven) Assembly Service

### Oven Specification:

- 採微電腦電子數位操控方式，穩定可靠。
- 箱體絕熱 packing 以 silicone 成型，耐高溫，永不老化。
- 可附加觀測視窗，使用方便，得心應手。
- 加熱採強制循環送風方式，溫度上昇快速。
- PID 控制系統，雙重超溫保護，安全可靠。
- 溫度設定簡易，操作方便。
- 附活動盤，可任意調整高低。
- 內部材質：內部採用 SUS 不銹鋼
- 外部材質：外部採用 SECC 鋼板、精粉體烤漆處理。
- 送風系統：全新耐高溫長軸馬達配合強力型多翼式風輪。
- 循環系統：強制水平送風循環，特殊風路設計，加熱溫度均勻。
- 安全裝置：獨立超溫保護器；自我診斷功能、超負載自動斷電系統。
- 可依客戶需求訂製任何尺寸。

型號	BRHDM-1202H	BRHDM-1002L	RHDM-1402	RHDM-1602	RHDM-1802
溫度範圍	室溫 +20°C ~260°C				
控制方式	PID 微電腦控制，PV/SV 同時顯示按鍵設定				
加熱方式	PID+S.S.R				
精確度	±1.0°C	±1.0°C	±1.0°C	±1.0°C	±1.0°C
均勻度	±2%	±2%	±2%	±2%	±2%
電壓	220V	220V	220V/380V	220V/380V	220V/380V
容積	540L	540L	1008L	1792L	2520L
電流	6KW	6KW	11KW	14KW	19KW
柵板	5	4	12	14	14
內箱尺寸 W*H*D(cm)	90*120*50	120*90*50	140*120*60	160*140*80	180*140*100
外箱尺寸 W*H*D(cm)	109*180*67	140*150*67	175*192*78	200*215*98	220*215*118
備註	單門	雙門	雙門	雙門	雙門



# 17. 各式助焊劑油汙 - 冷卻劑銷售 (MicroCare 台灣總代理)



## Discover Perfectly Clean

When it comes to precision cleaning electronics during manufacturing, rework or repair, Microcare is the industry leader. The Microcare brand of quality products, innovative chemistries and instant customer service has earned the trust of companies around the globe.

### Microcare products:

- Reduce manufacturing costs
- Improve production efficiencies
- Maximize throughput
- Minimize defects and waste
- Enhance product stewardship and safety
- Improve quality and reliability



### Application:

- Wafer level CSP flux residue remove
- PCB level flux residue remove
- Lead frame package flux residue remove
- Remove flux or oil after HAST process/test
- HAST board clean

## For Perfectly Clean Fiber Optic Networks

The Sticklers cleaning products are the only fiber optic cleaners on the market today that have been engineered as a total system, with the different pieces all working together and enhancing each other's performance, to resolve the complex problems of cleaning fiber optics.

### If You Are Cleaning Inside Fiber Optic Ports...

...then you know this is one of the world's toughest cleaning environments. Sticklers can do more, faster. You need...

#### CleanStixx™

The Sticklers CleanStixx™ are patented cleaning "swabs" that fit inside alignment sleeves on fiber optic connectors and outperform all others.



### If You're Cleaning Jumpers or Before Splicing...

...then you're probably using IPA alcohol and cheap paper wipes. Sticklers can do a better job at lower cost. You need...

#### CleanWipes™

There are four sizes of Sticklers CleanWipes™ for the different fiber optic cleaning applications. Like any wipe, these will work best when used with the Sticklers Cleaning Fluid.



### Cleaning Fluid

The Sticklers Cleaning Fluid is a fast-drying, nonflammable liquid that delivers faster, better and more consistent cleaning than other choices.



### Cleaning Fluid

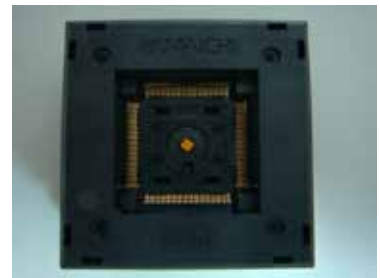
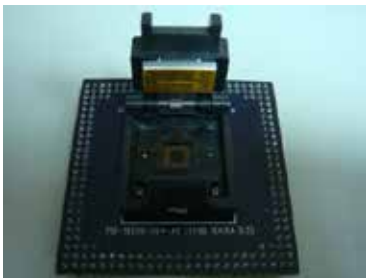
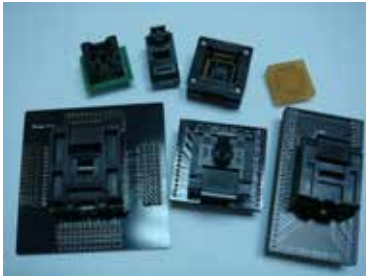
The Sticklers Cleaning Fluid is a fast-drying liquid that replaces the IPA alcohol often used on fiber.



## 18. 各式 socket / socket adaptor 銷售

### Test&Burn-IN Socket Package:

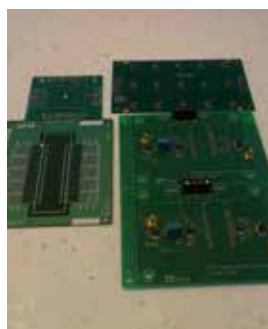
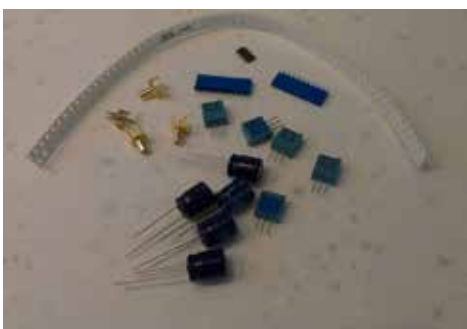
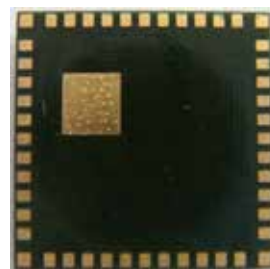
- DIP
- SOJ
- SOP
- TSOP
- TSSOP
- SSOP
- PLCC
- QFP
- TQFP
- PQFP
- LQFP
- QFN



## 19. 各式電子零件售銷服務

提供多樣，少量，各式主，被動電子零件，對於電子材料取得既是輕鬆又方便快捷

- 光電子產品 :LED 照明 - COB、引擎、模組
- 感測器、傳感器 :光學感測器 - 光電二極體
- 感測器、傳感器 :PMIC - MOSFET、電橋驅動器 - 內部開關, 邏輯 - 多諧振盪器
- 繼電器 :I/O 繼電器模組 - 輸入
- 電容 :Mica 和 PTFE 電容, 陶瓷電容
- 電感、線圈、扼流圈 :可調電感
- 電阻 :晶片電阻器 - 表面黏著式
- 整流器
- 排針





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