

# In-Circuit Testing Probes



In-Circuit Testing  
Printed Circuit Board Testing



C.C.P. CONTACT PROBES

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# ABOUT US

## Introduction

C.C.P. Contact Probes Co., Ltd. is a leading global manufacturer of Contact Probes, Pogo Pins, Testprobes, Springloaded Connectors, and Crown Spring Connectors.

In 1986 we began as a specialized provider of test probes and socket auxiliary solutions and slowly expanded our product portfolio in related industries such as electronic components manufacturing. Among our customers are renowned brands like Apple and Amazon and our products are revered by our customers for their exceptional reliability and superior quality.

Our research and development teams are continuously improving our existing products and bringing new innovations to the market to meet the growing demands of our clients. Since 2001 CCP Contact Probes has been a public traded company listed on the Taiwan Stock Exchange. Today CCP has subsidiaries in the United States, China, Germany, India, Japan and Singapore, meeting the needs of our customers around the world.

## Selected Customers

FOXCONN

Google



ADVANTEST

## Locations



# ABOUT US

## History

### History

2020	CCP Korea Established/ High Speed Network Cable Product Line
2019	CCP Japan, Singapore & India Established
2018	CCP Germany Established
2016	High Current Connector Product Line
2014	CCP USA Established
2003	Listed on Taiwan Stock Market (TW. 6217)
2002	Commercial Connector Product Line
2001	CCP Dongguan Factory Established
1986	CCP Established/ Testing Product Line

### Company Culture



Yearly Home Visit



Employee's Children  
Summer Camp



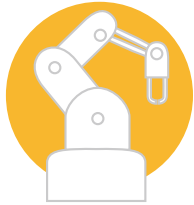
Tuition Subsidy  
for Employee's Children

# ABOUT US

## Advantages



Over 30 Years of Product Development Experience  
Servicing Industry-leading Clients

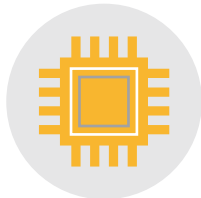


Turning and Plating Factory

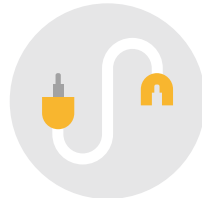


A Proven Track-record of Reliability, an Industry Certified Quality  
Management System, and State-of-the-art Production Equipment

## Product Lines



Testing  
Solutions



Commercial  
Connector Solutions



High Current  
Connector Solutions



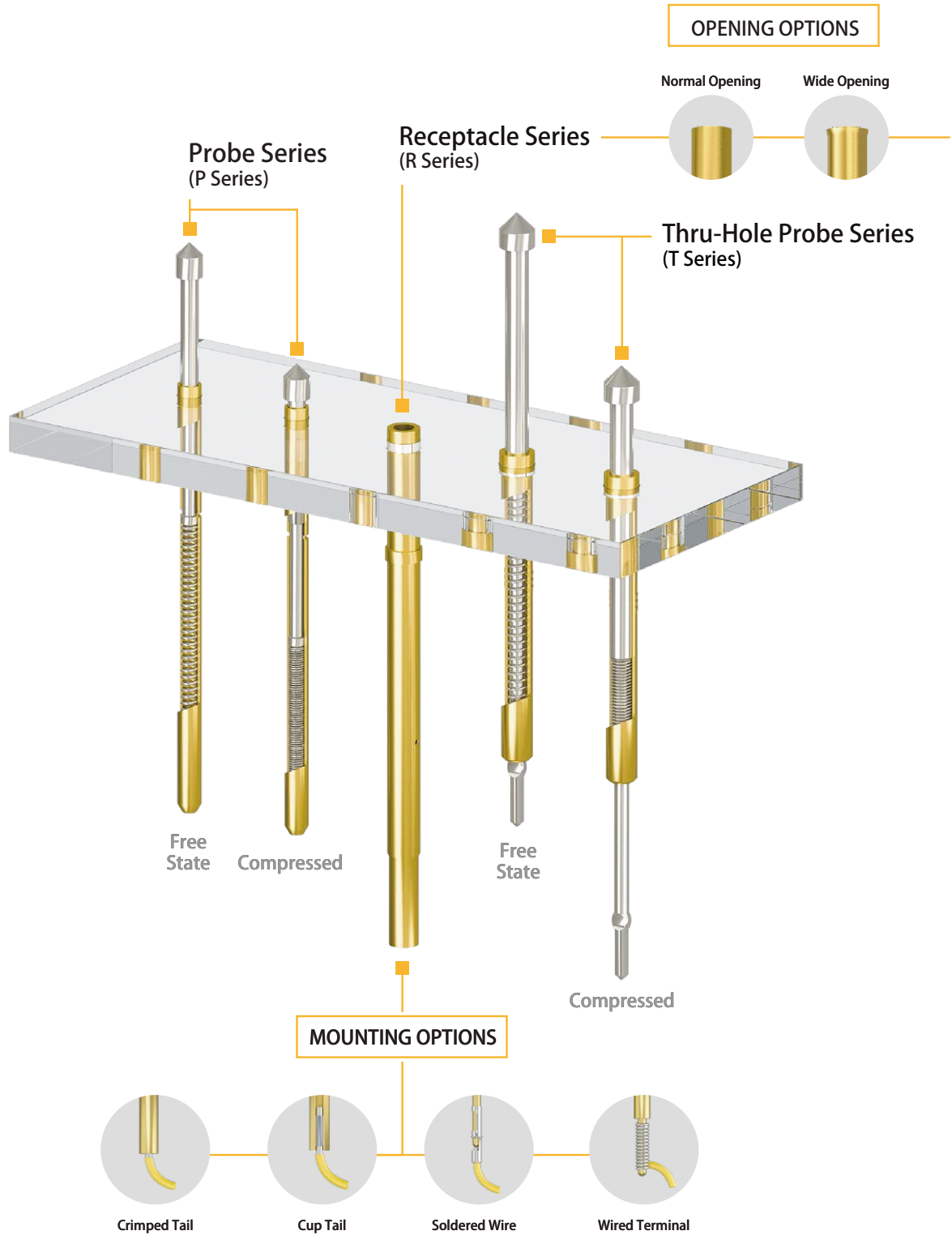
Industrial  
Connector Solutions

# STRUCTURE

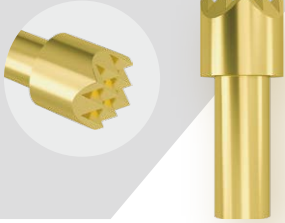


# CCP PROBE SERIES

P Series   R Series   T Series



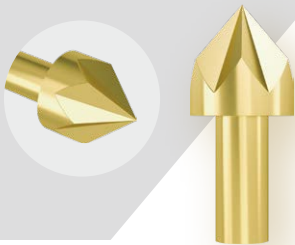
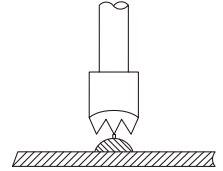
# PROBE TIP TYPE



## H

### L9 - Large 9 Points

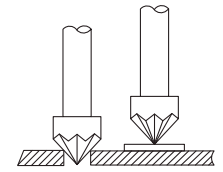
Used to test long leads, terminals, wire wrap posts and pads.



## K

### LS - Large Star

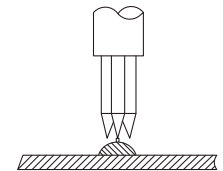
Used to penetrate through holes, pads and gold edge fingers. Will not be contaminated by dust.



## M3

### LN3 - Large Needle 3

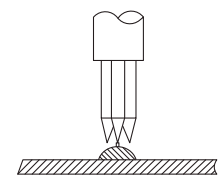
Used to test lands and pads. Needles can penetrate thin layers of oxides or contaminations.



## M7

### LN7 - Large Needle 7

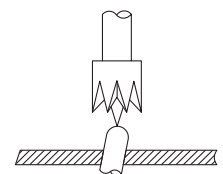
Used to test lands and pads. Needles can penetrate thin layers of oxides or contaminations.



## Q

### L7 - Large 7 Points

Used to test lands, terminals, and wire wrap posts.



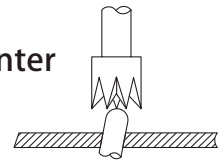




## Q

### L7M - Large 7 Points with Large Middle Center

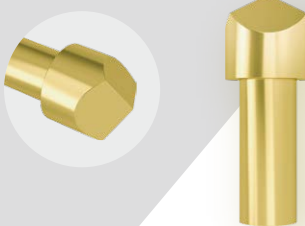
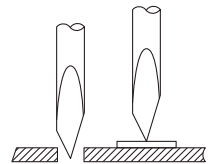
Used to test lands, terminals, and wire wrap posts.



## T

### M3C - Medium 3 Side Chiseled

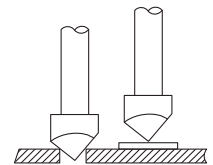
Used to test through holes, pads and gold edge fingers.



## T

### L3C - Large 3 Side Chiseled

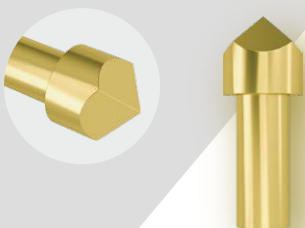
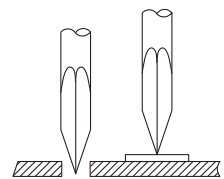
Used to test through holes, pads and gold edge fingers.



## S

### M4C - Medium 4 Side Chiseled

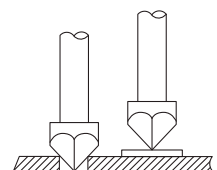
Used to test through holes, pads and gold edge fingers.



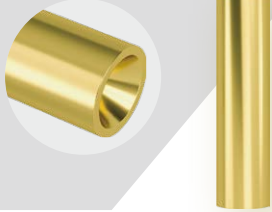
## S

### L4C - Large 4 Side Chiseled

Used to test through holes, pads and gold edge fingers.



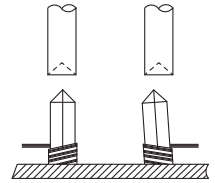
# PROBE TIP TYPE



## A

**MC - Medium Cup**

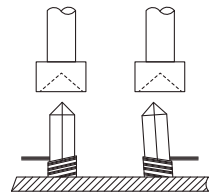
Used to test long leads, terminals and wire wrap posts.



## A

**LC - Large Cup**

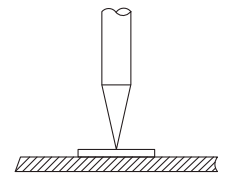
Used to test long leads, terminals and wire wrap posts.



## B

**MA - Medium Awl**

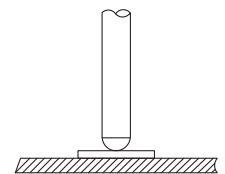
Used to test through holes, pads and gold edge fingers.



## D

**MR - Medium Round**

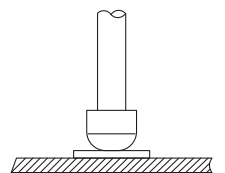
Used to test gold edge fingers and gold pads. Leaves no marks or indentations.



## D

**LR - Large Round**

Used to test gold edge fingers and gold pads. Leaves no marks or indentations.

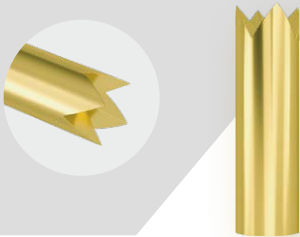
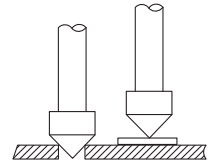




## E

### LA - Large Awl

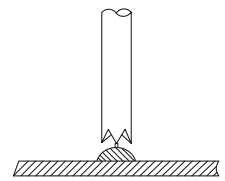
Used to test through holes, pads and gold edge fingers.



## F

### M4 - Medium 4 Points

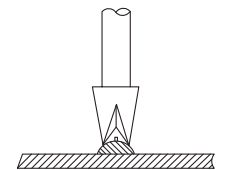
Used to test narrow lands. Will not be contaminated by dust.



## F

### L4 - Large 4 Points

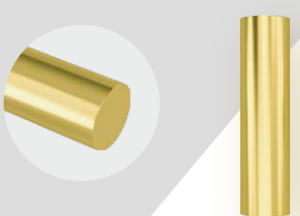
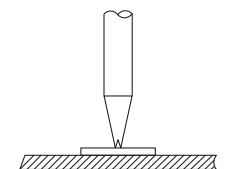
Used to test narrow lands. Will not be contaminated by dust.



## F

### S4 - Small 4 Points

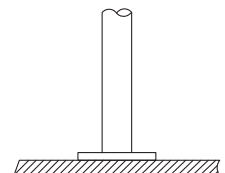
Used to test narrow lands. Will not be contaminated by dust.



## G

### MF - Medium Flat

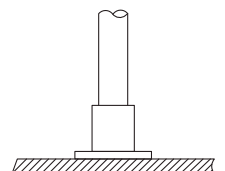
For testing pads and gold edge-fingers. Contact leaves no marks or indentations.



## G

### LF - Large Flat

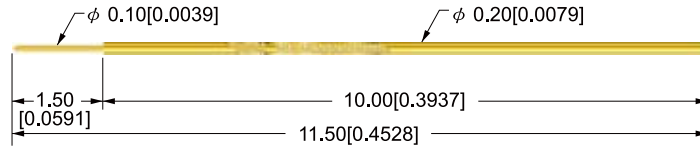
For testing pads and gold edge-fingers. Contact assured leaves no marks or indentations.



# P-020

## PROBES SERIES

單位：(英寸) Dimensions In Millimeter (inch)



### 針軸 Plunger

高碳鋼鍍銻或鍍金  
SK4 (High Carbon Steel)  
with Rhodium Plated or Gold Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

琴鋼線鍍金  
Music Wire with Gold Plated

### 外管 Receptacle

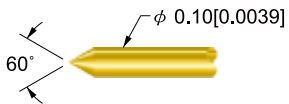
磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 規格 Specification

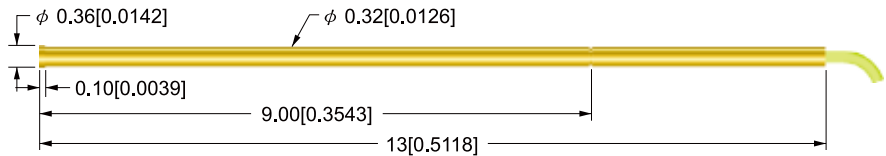
最小中心距 Min. Center	0.45mm (0.0177)
最大行程 Full Stroke	1.5mm (0.0059)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	15g (0.53oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	10g (0.35oz)
額定電流 Current Rating	0.3A (安培)
接觸電阻 Contact Resistance	260mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	0.33mm (0.013)

\*規格變動不另行通知 Specification Subject to change without notice

### P-020B



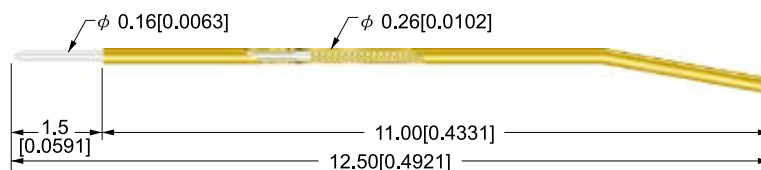
### R-020R(W)



尾端導線：鉚線，焊線  
Receptacle with Terminal Wire

線長：700mm  
Wire Length: 700mm

單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

高碳鋼鍍鉑或鍍金  
SK4 (High Carbon Steel)  
with Rhodium Plated or Gold Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

琴鋼線鍍金  
Music Wire with Gold Plated

### 外管 Receptacle

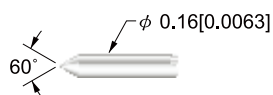
磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 規格 Specification

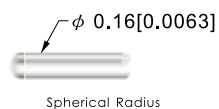
最小中心距 Min. Center	0.50mm (0.00197)
最大行程 Full Stroke	1.5mm (0.059)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	20g (0.70oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	15g (0.53oz)
額定電流 Current Rating	0.3A (安培)
接觸電阻 Contact Resistance	220mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	0.368 - 0.38st (0.0145)-(0.0150)

\*規格變動不另行通知 Specification Subject to change without notice

### P-026B

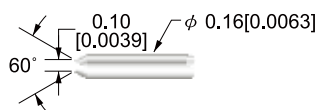


### P-026D

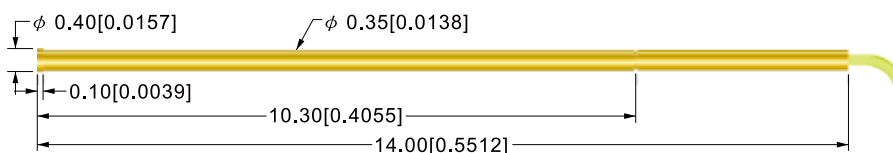


Spherical Radius

### P-026F



### R-026R(W)



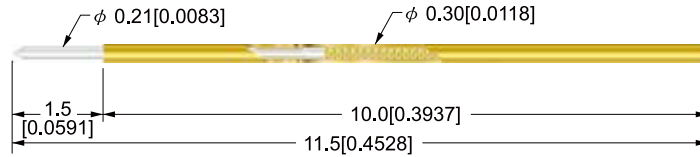
尾端導線：鉚線，焊線  
Receptacle with Terminal Wire

線長：700mm  
Wire Length: 700mm

# P-030

## PROBES SERIES

單位：(英寸) Dimensions In Millimeter (inch)



### 針軸 Plunger

高碳鋼鍍銠或鍍金  
SK4 (High Carbon Steel)  
with Rhodium Plated or Gold Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

琴鋼線鍍金  
Music Wire with Gold Plated

### 外管 Receptacle

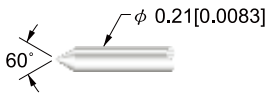
磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 規格 Specification

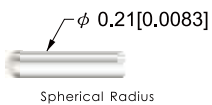
最小中心距 Min. Center	0.65mm (0.0256)
最大行程 Full Stroke	1.5mm (0.059)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	50g (1.76oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	40g (1.41oz)
額定電流 Current Rating	0.5A (安培)
接觸電阻 Contact Resistance	200mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	0.4064mm (0.0160)~0.45mm (0.0177)

\*規格變動不另行通知 Specification Subject to change without notice

### P-030B



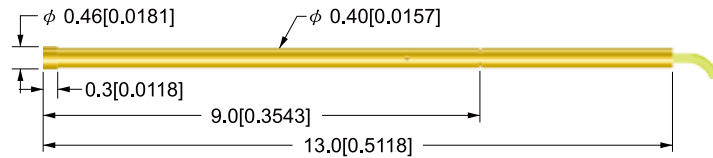
### P-030D



### P-030F



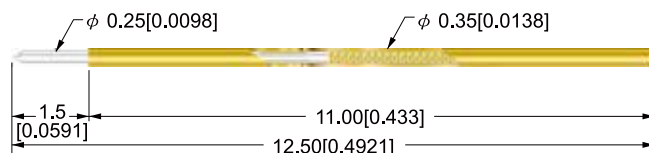
### R-030R(W)



尾端導線：鉚線，焊線  
Receptacle with Terminal Wire

線長：700mm  
Wire Length: 700mm

單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

高碳鋼鍍銠或鍍金  
SK4 (High Carbon Steel)  
with Rhodium Plated or Gold Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

琴鋼線鍍金  
Music Wire with Gold Plated

### 外管 Receptacle

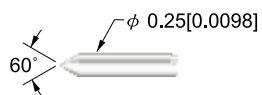
磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 規格 Specification

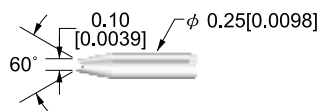
最小中心距 Min. Center	0.70mm (0.00197)
最大行程 Full Stroke	1.5mm (0.059)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	40g (0.70oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	30g (0.53oz)
額定電流 Current Rating	0.5A (安培)
接觸電阻 Contact Resistance	130mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	0.45mm (0.0177)~0.47 (0.0185)

\*規格變動不另行通知 Specification Subject to change without notice

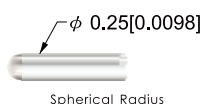
### P-035B



### P-035F

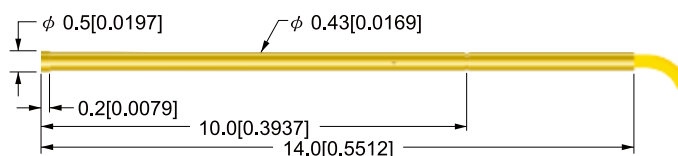


### P-035D

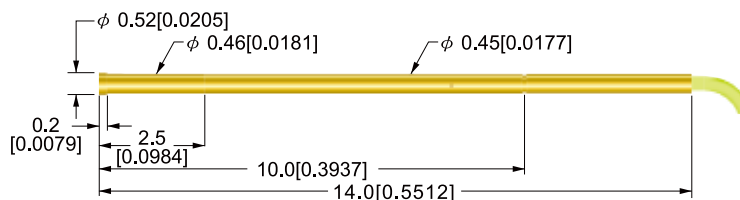


Spherical Radius

### R-035R(W)



### R-035R1(C)(W)



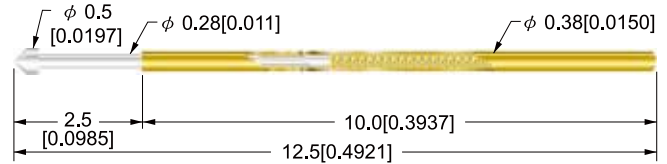
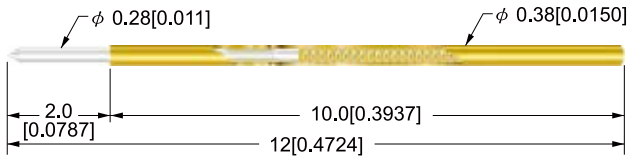
尾端導線：鉚線，焊線  
Receptacle with Terminal Wire

線長：700mm  
Wire Length: 700mm

# P-038

## PROBES SERIES

單位：(英寸) Dimensions In Millimeter (inch)



### 針軸 Plunger

高碳鋼鍍銠或鍍金  
SK4 (High Carbon Steel)  
with Rhodium Plated or Gold Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

琴鋼線鍍金  
Music Wire with Gold Plated

### 外管 Receptacle

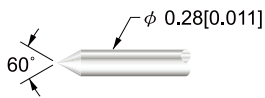
磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 規格 Specification

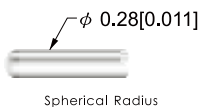
最小中心距 Min. Center	0.8mm (0.0315)
最大行程 Full Stroke	2.0mm (0.0787)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	40g (1.41oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	30g (1.06oz)
額定電流 Current Rating	0.5A (安培)
接觸電阻 Contact Resistance	180mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	0.52mm (0.0204)~0.57mm (0.0224)

\*規格變動不另行通知 Specification Subject to change without notice

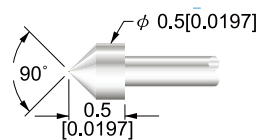
### P-038BS



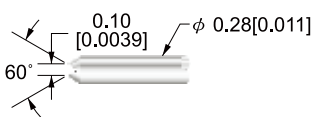
### P-038DS



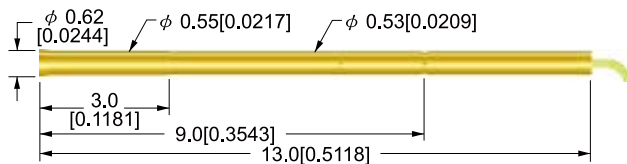
### P-038ES



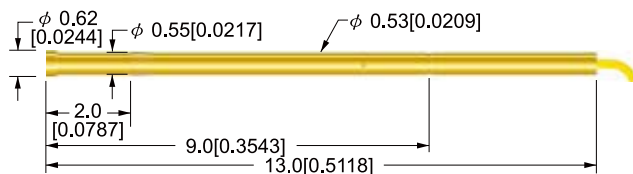
### P-038FS



### R-038VS(W)



### R-038R1(C)(W)

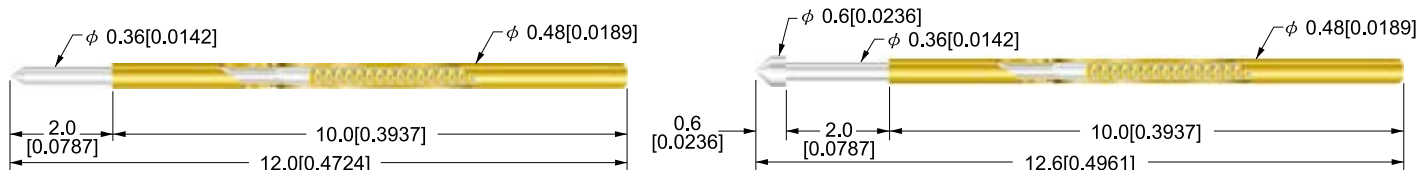


尾端導線：鉚線，焊線  
Receptacle with Terminal Wire

線長：700mm  
Wire Length: 700mm



單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

高碳鋼鍍銠或鍍金  
SK4 (High Carbon Steel)  
with Rhodium Plated or Gold Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

琴鋼線鍍金  
Music Wire with Gold Plated

### 外管 Receptacle

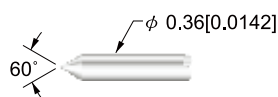
磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 規格 Specification

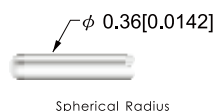
最小中心距 Min. Center	0.90mm (0.0354)
最大行程 Full Stroke	2.0mm (0.0787)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	60g (2.12oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	45g (1.59oz)
額定電流 Current Rating	1A (安培)
接觸電阻 Contact Resistance	150mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	0.60mm (0.0236)~0.65mm (0.0256)

\*規格變動不另行通知 Specification Subject to change without notice

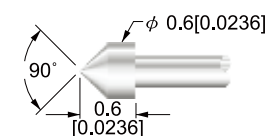
### P-048BS



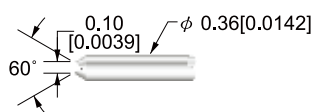
### P-048DS



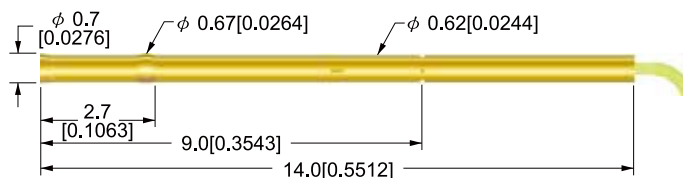
### P-048ES



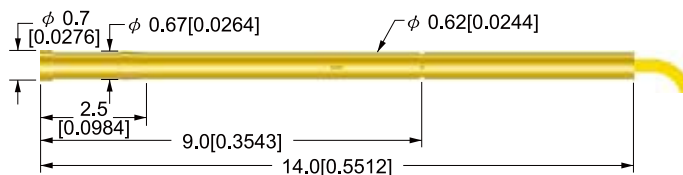
### P-048FS



### R-048VS(W)



### R-048R(C)(W)



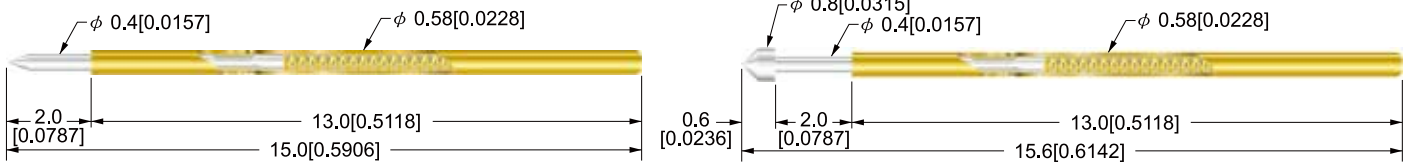
尾端導線：鉚線，焊線  
Receptacle with Terminal Wire

線長：700mm  
Wire Length: 700mm

# P-058

## PROBES SERIES

單位：(英寸) Dimensions In Millimeter (inch)



### 針軸 Plunger

高碳鋼鍍銻或鍍金  
SK4 (High Carbon Steel)  
with Rhodium Plated or Gold Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

琴鋼線鍍金  
Music Wire with Gold Plated

### 外管 Receptacle

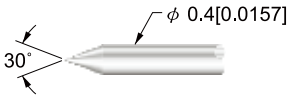
磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 規格 Specification

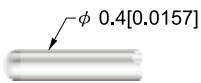
最小中心距 Min. Center	1.0mm (0.0394)
最大行程 Full Stroke	2.0mm (0.0787)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	60g (2.12oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	45g (1.59oz)
額定電流 Current Rating	1A (安培)
接觸電阻 Contact Resistance	120mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	0.70mm (0.0275)~0.76mm (0.0299)

\*規格變動不另行通知 Specification Subject to change without notice

### P-058B

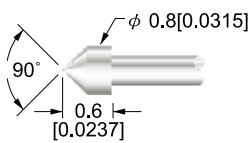


### P-058D

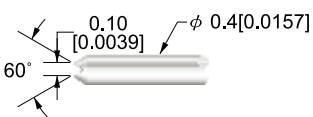


Spherical Radius

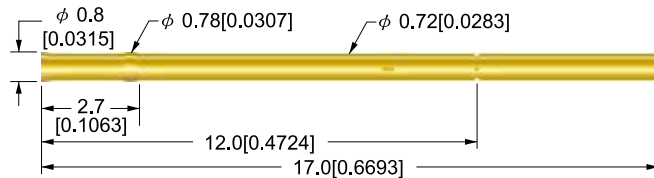
### P-058E



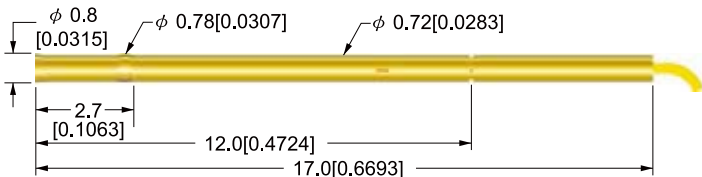
### P-058F3



### R-058VC



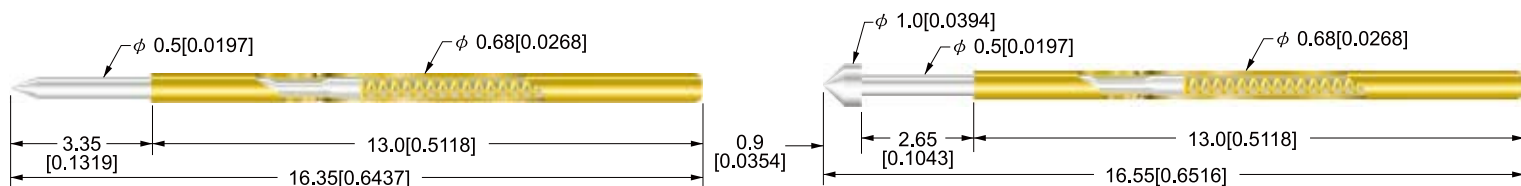
### R-058V(W)



尾端導線：鉚線，焊線  
Receptacle with Terminal Wire

線長：700mm  
Wire Length: 700mm

單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

鈹銅或高碳鋼鍍銠或鍍金  
Beryllium Copper or SK4  
with Rhodium Plated or Gold Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

琴鋼線鍍金  
Music Wire with Gold Plated

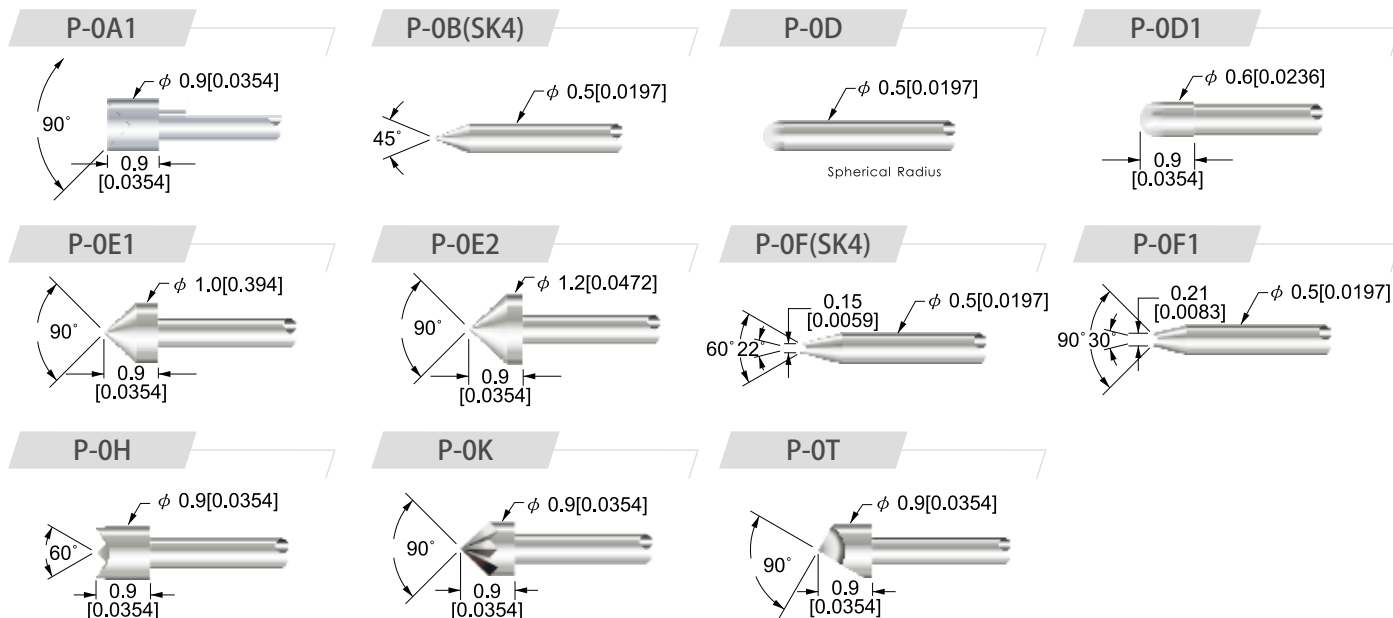
### 外管 Receptacle

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 規格 Specification

最小中心距 Min. Center	1.27mm (0.0500)
最大行程 Full Stroke	3.35mm (0.1319) / 2.65mm (0.1043)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	100g (3.53oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	65g (2.29oz)
額定電流 Current Rating	1.5A (安培)
接觸電阻 Contact Resistance	70mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	0.90mm (0.0354)~0.95mm (0.0374)

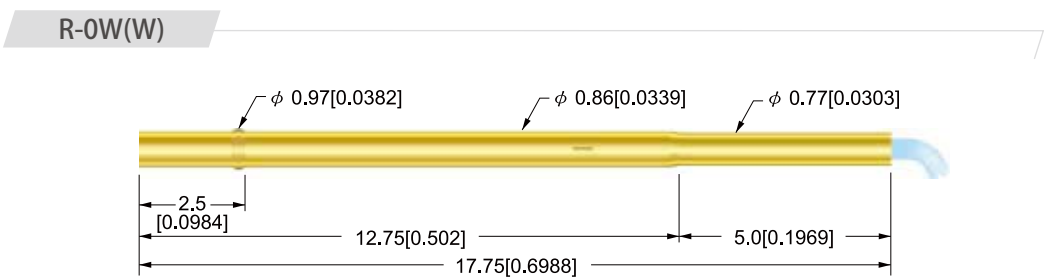
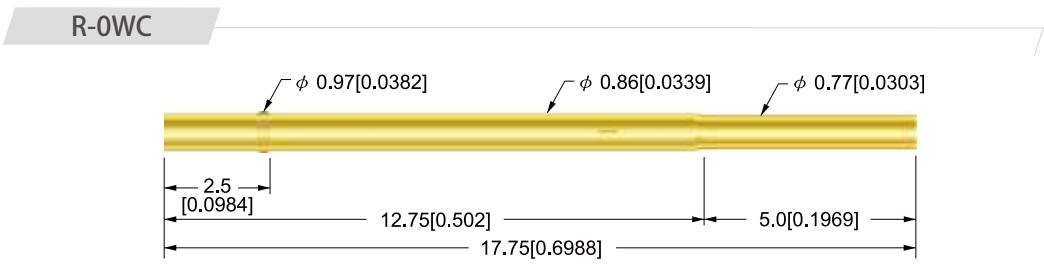
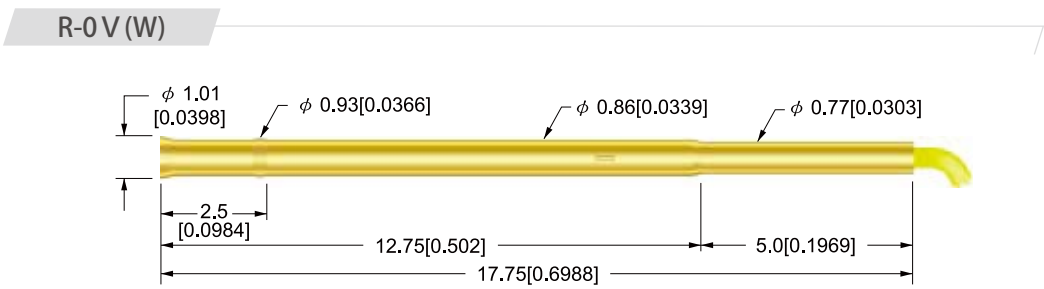
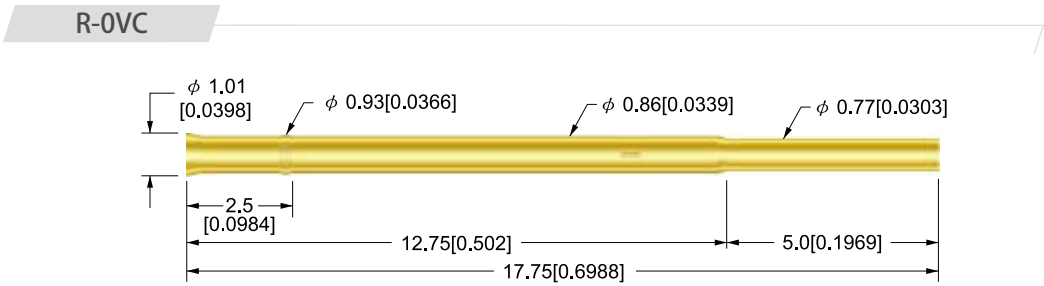
\*規格變動不另行通知 Specification Subject to change without notice



# R-0

## RECEPTACLES SERIES

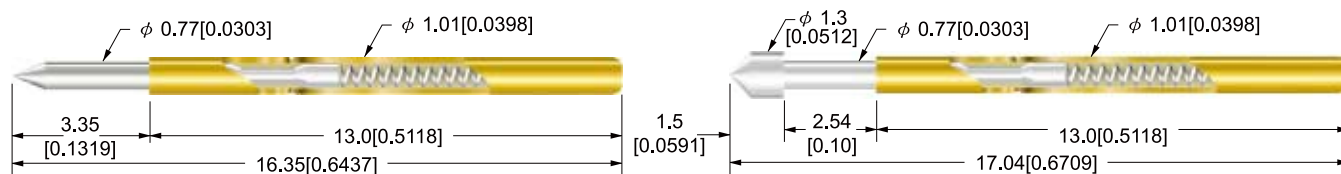
單位：(英吋) Dimensions In Millimeter (inch)



尾端導線：鉚線，焊線  
Receptacle with Terminal Wire

線長：700mm  
Wire Length: 700mm

單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

鈹銅或高碳鋼鍍銠或鍍金  
Beryllium Copper or SK4  
with Rhodium Plated or Gold Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

不鏽鋼  
Stainless Steel

### 外管 Receptacle

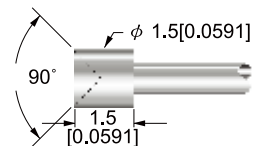
磷青銅或青銅鍍金  
Phosphor Bronze or Brass  
with Gold Plated

### 規格 Specification

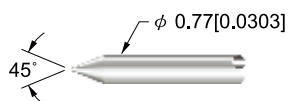
最小中心距 Min. Center	1.90mm (0.0748)
最大行程 Full Stroke	3.35mm (0.1319) / 2.54mm (0.1000)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	128g (4.51oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	90g (3.17oz)
額定電流 Current Rating	3A (安培)
接觸電阻 Contact Resistance	30mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	1.35mm (0.0531)~1.40mm (0.0551)

\*規格變動不另行通知 Specification Subject to change without notice

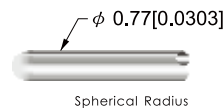
P-1A1



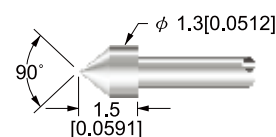
P-1B(SK4)



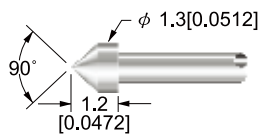
P-1D



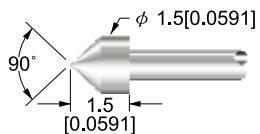
P-1E1



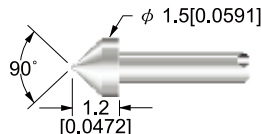
P-1E1(S)



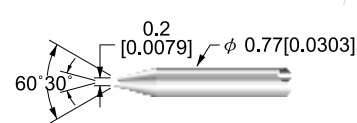
P-1E2



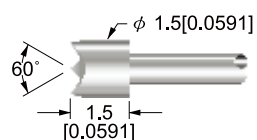
P-1E2(S)



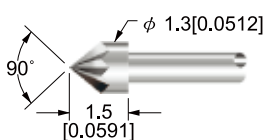
P-1F(SK4)



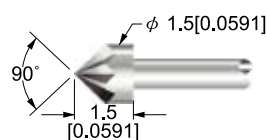
P-1H



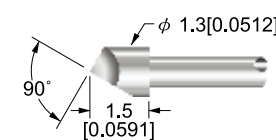
P-1K



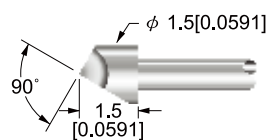
P-1K1



P-1T



P-1T1

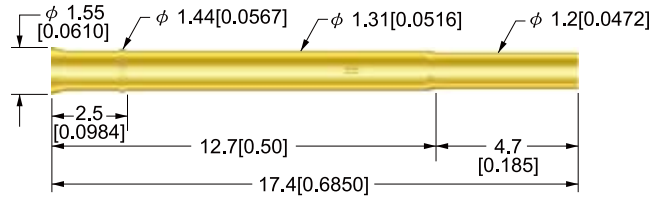


# R-1

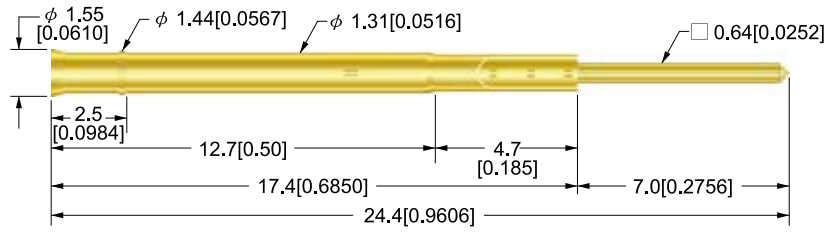
## RECEPTACLES SERIES

單位：(英吋) Dimensions In Millimeter (inch)

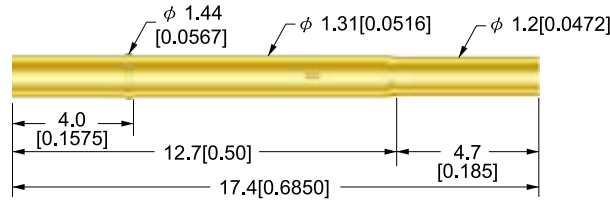
R-1VC



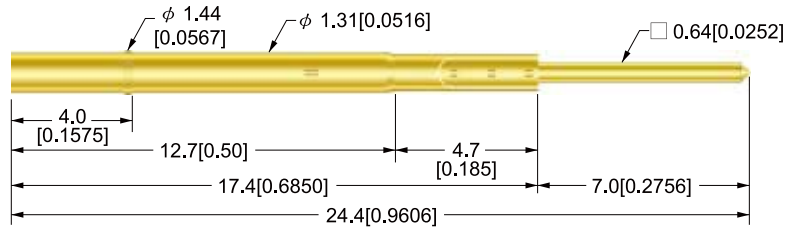
R-1V-2



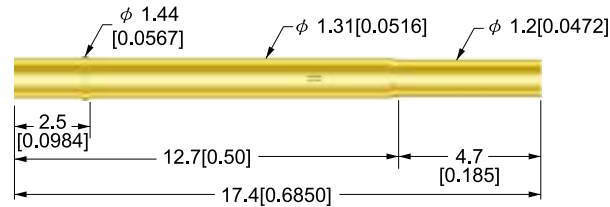
R-1W2C



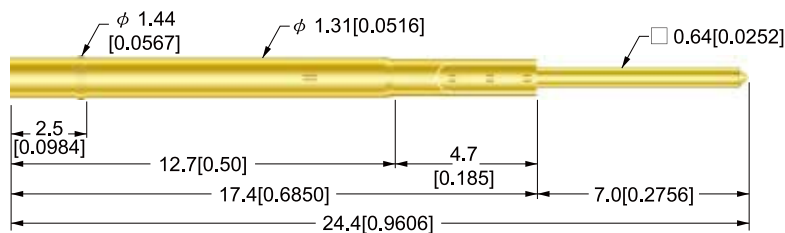
R-1W2-2



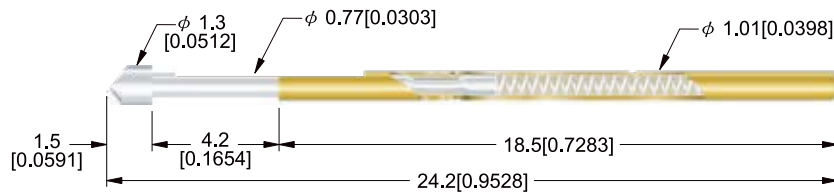
R-1W1C



R-1W1-2



單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

鈹銅或高碳鋼鍍銠或鍍金  
Beryllium Copper or SK4  
with Rhodium Plated or Gold Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

不鏽鋼  
Stainless Steel

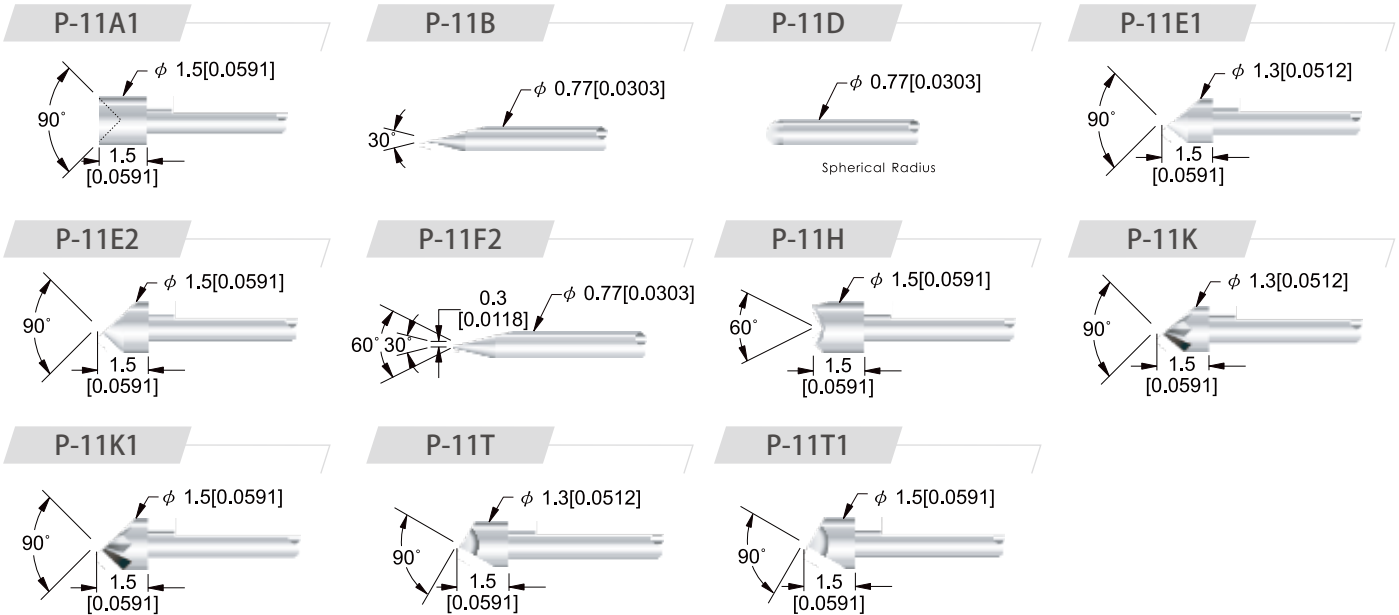
### 外管 Receptacle

磷青銅或青銅鍍金  
Phosphor Bronze or Brass  
with Gold Plated

### 規格 Specification

最小中心距 Min. Center	1.90mm (0.0749)
最大行程 Full Stroke	4.20mm (01654)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	150g (5.29oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	80g (2.82oz)
額定電流 Current Rating	3A (安培)
接觸電阻 Contact Resistance	30mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	1.35mm (0.0531)~1.40mm (0.0551)

\*規格變動不另行通知 Specification Subject to change without notice

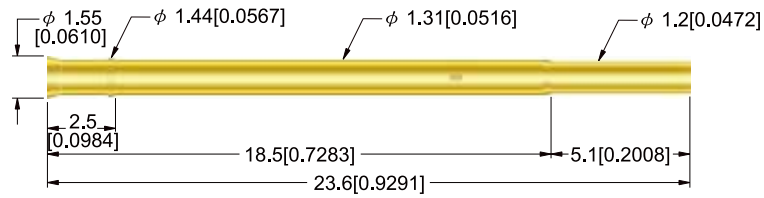


# R-11

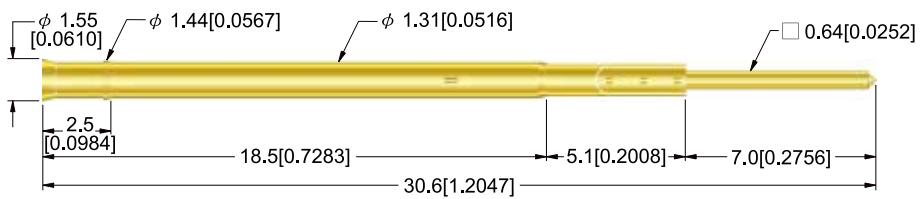
## RECEPTACLES SERIES

單位：(英吋) Dimensions In Millimeter (inch)

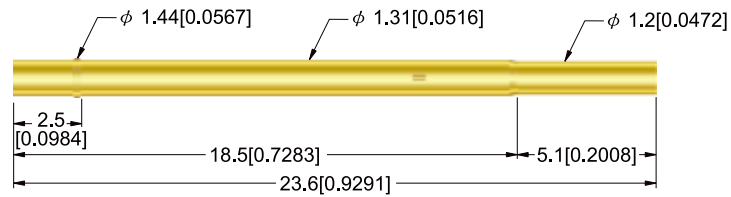
### R-11VC



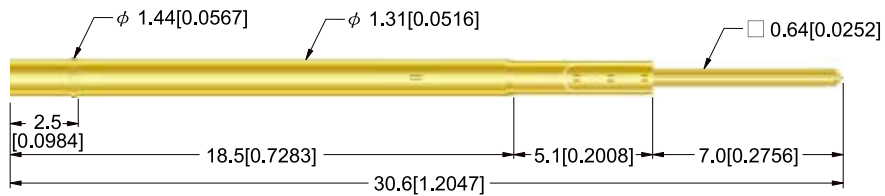
### R-11V-2



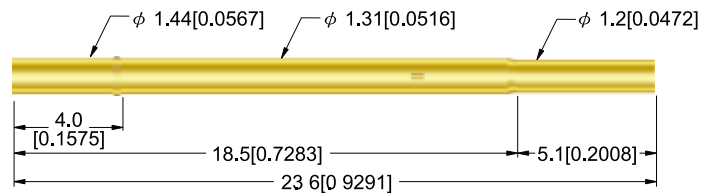
### R-11W1-2



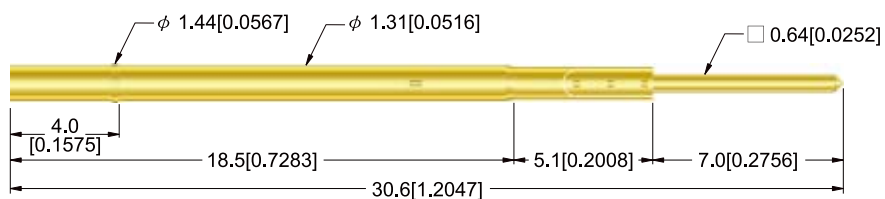
### R-11W1-2



### R-11W2C



### R-11W2-2

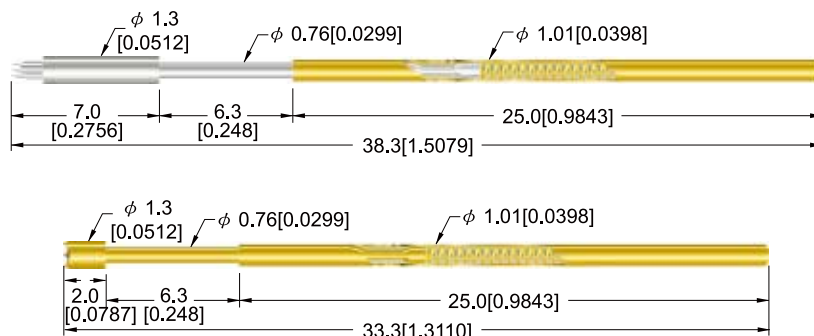


尾端導線：鉚線，焊線  
Receptacle with Terminal Wire

線長：700mm  
Wire Length: 700mm



單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

鈹銅或高碳鋼鍍金或鍍鎳  
Beryllium Copper or SK4  
with Gold Plated or Nickel Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

琴鋼線鍍金  
Music Wire with Gold Plated

### 外管 Receptacle

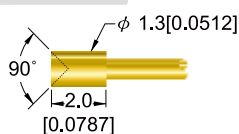
磷青銅或青銅鍍金  
Phosphor Bronze or Brass  
with Gold Plated

### 規格 Specification

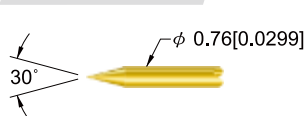
最小中心距 Min. Center	1.90mm (0.0748)
最大行程 Full Stroke	6.30mm (0.2480)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	250g (8.82oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	170g (6.0oz)
額定電流 Current Rating	3A (安培)
接觸電阻 Contact Resistance	30mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	1.35mm (0.0531)~1.40mm (0.0551)

\*規格變動不另行通知 Specification Subject to change without notice

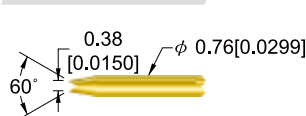
P-111A



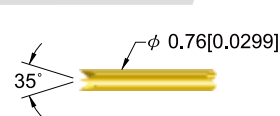
P-111B(SK4)



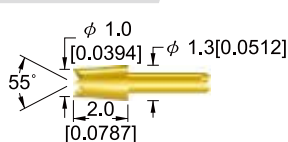
P-111F(SK4)



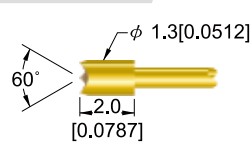
P-111F1(SK4)



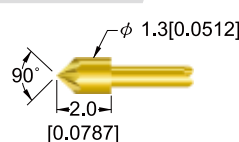
P-111F2



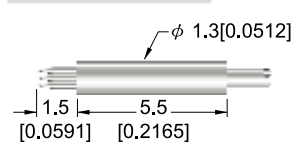
P-111H



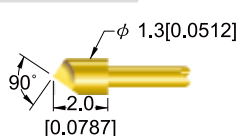
P-111K



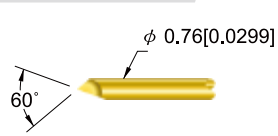
P-111M3(SK4)



P-111T1



P-111T2(SK4)

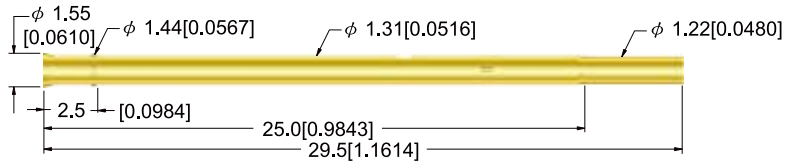


# R-111

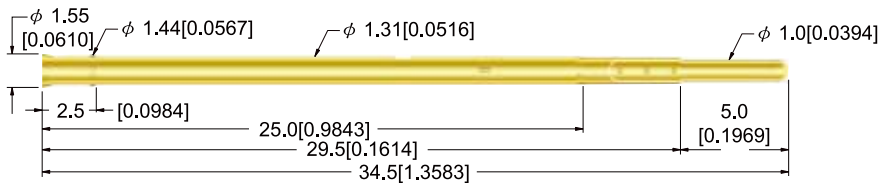
## RECEPTACLES SERIES

單位：(英寸) Dimensions In Millimeter (inch)

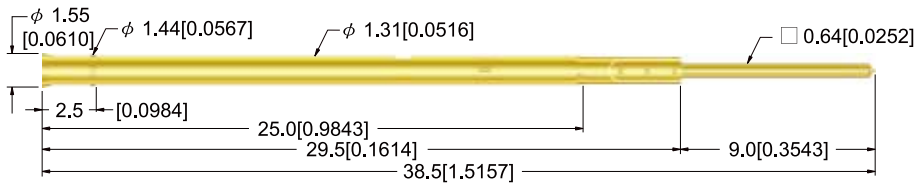
### R-111VC



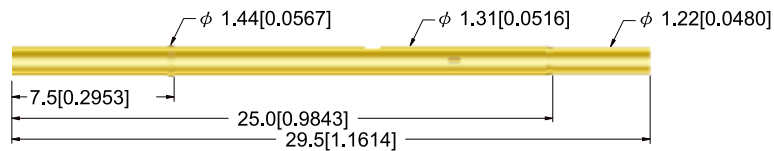
### R-111VT



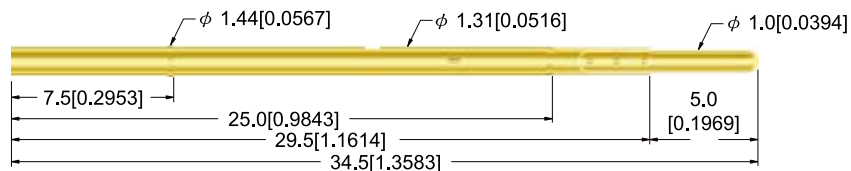
### R-111V-1



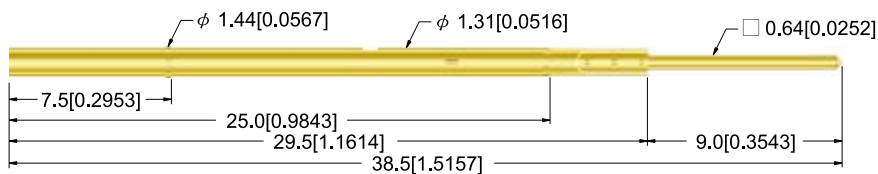
### R-111WC



### R-111WT



### R-111W-1

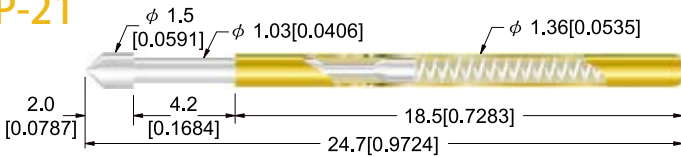


尾端導線：鉚線，焊線  
Receptacle with Terminal Wire

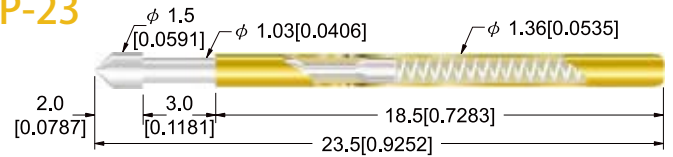
線長：700mm  
Wire Length: 700mm

單位：(英吋) Dimensions In Millimeter (inch)

### P-21



### P-23



#### 針軸 Plunger

鈹銅或高碳鋼鍍銠或鍍金  
Beryllium Copper or SK4  
with Rhodium Plated or Gold Plated

#### 內管 Barrel

磷青銅或青銅鍍金  
Phosphor Bronze or Brass  
with Gold Plated

#### 彈簧 Spring

不鏽鋼  
Stainless Steel

#### 外管 Receptacle

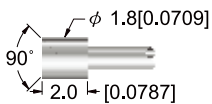
磷青銅或青銅鍍金  
Phosphor Bronze or Brass  
with Gold Plated

#### 規格 Specification

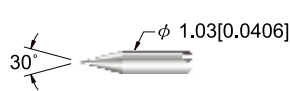
最小中心距 Min. Center	2.54mm (0.0100)
最大行程 Full Stroke	21# 4.2mm (0.1654) / 23# 3.0mm (0.1181)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	150g (5.29oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	115g (4.06oz)
額定電流 Current Rating	3A (安培)
接觸電阻 Contact Resistance	30mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	1.70mm (0.0669)~1.75mm (0.0689)

\*規格變動不另行通知 Specification Subject to change without notice

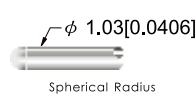
#### P-21A1



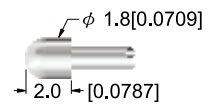
#### P-21B



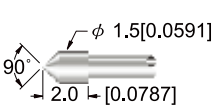
#### P-21D



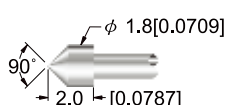
#### P-21D2



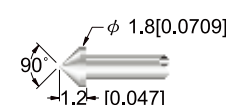
#### P-21E1



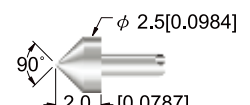
#### P-21E2



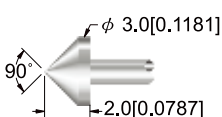
#### P-21E2(S)



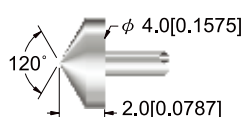
#### P-21E4



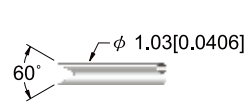
#### P-21E5



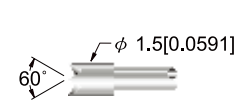
#### P-21E6



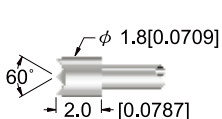
#### P-21F



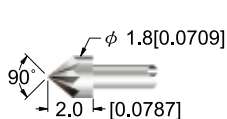
#### P-21F1



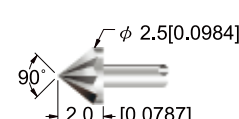
#### P-21H



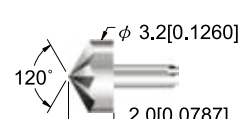
#### P-21K2



#### P-21K4



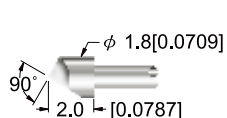
#### P-21K5



#### P-21K6



#### P-21T1

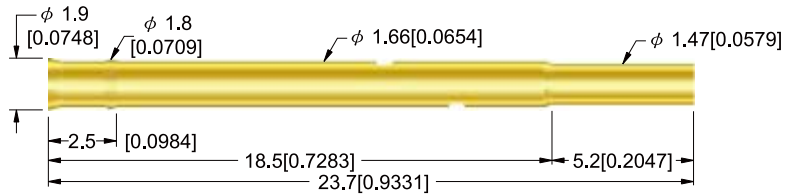


# R-2

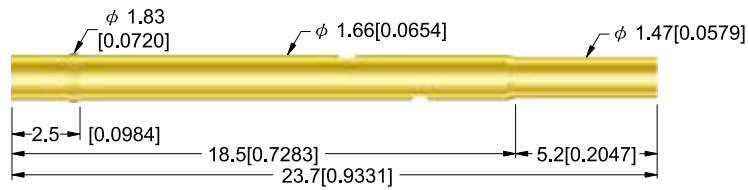
## RECEPTACLES SERIES

單位：(英寸) Dimensions In Millimeter (inch)

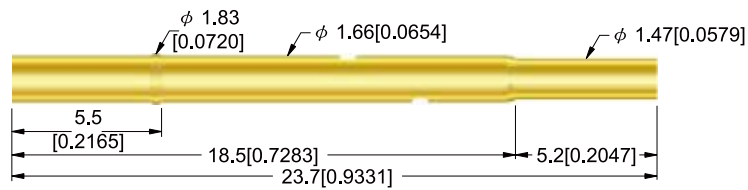
R-2VC



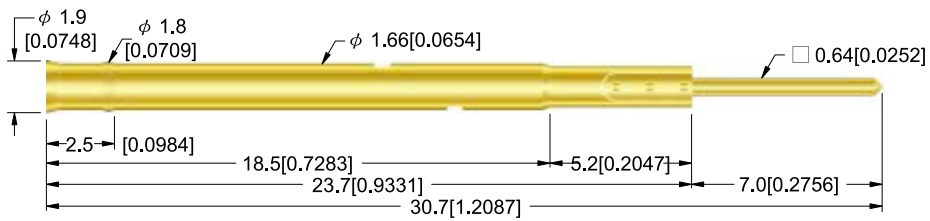
R-2W1C



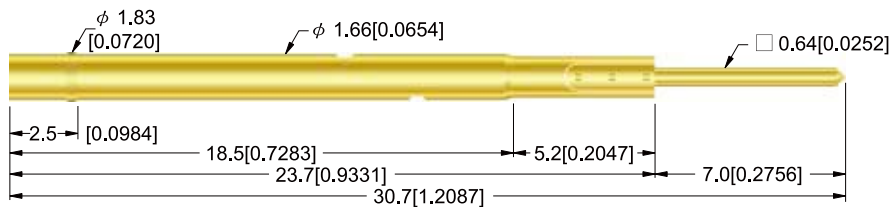
R-2W2C



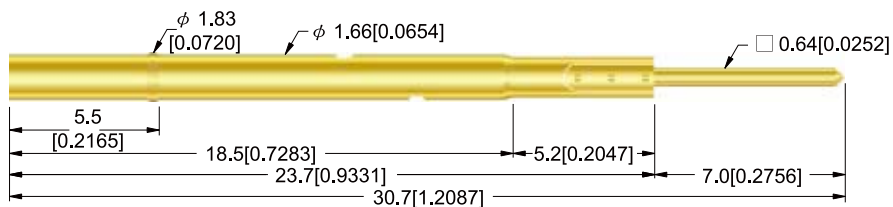
R-2V-2



R-2W1-2



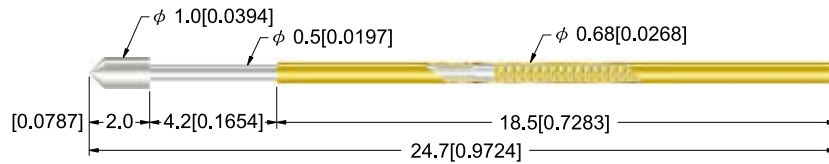
R-2W2-2



尾端導線：鉚線，焊線  
Receptacle with Terminal Wire

線長：700mm  
Wire Length: 700mm

單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

鈹銅或高碳鋼鍍銠  
Beryllium Copper or SK4  
with Rhodium Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

琴鋼線鍍金  
Music Wire with Gold Plated

### 外管 Receptacle

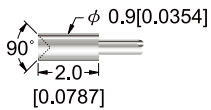
磷青銅鍍金  
Phosphor Bronze or Brass  
with Gold Plated

### 規格 Specification

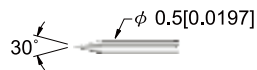
最小中心距 Min. Center	1.27mm (0.0500)
最大行程 Full Stroke	4.20mm (0.1654)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	150g (5.29oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	100g (3.53oz)
額定電流 Current Rating	3A (安培)
接觸電阻 Contact Resistance	30mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	0.95mm (0.0374)

\*規格變動不另行通知 Specification Subject to change without notice

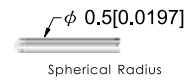
#### P-02A1



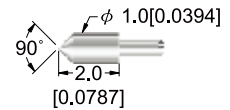
#### P-02B



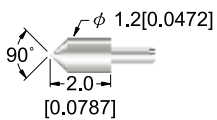
#### P-02D



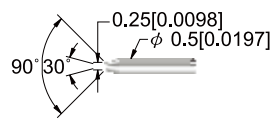
#### P-02E1



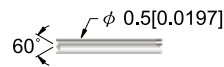
#### P-02E2



#### P-02F



#### P-02H

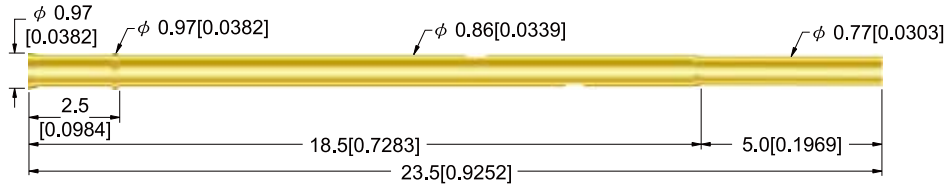


# R-02

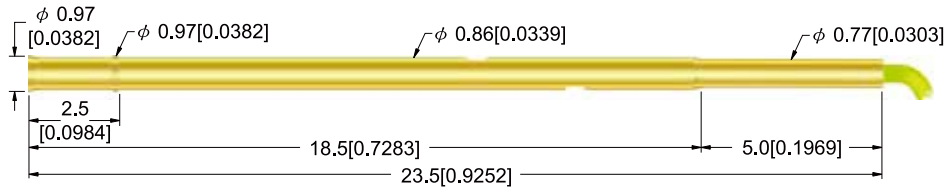
## RECEPTACLES SERIES

單位：(英吋) Dimensions In Millimeter (inch)

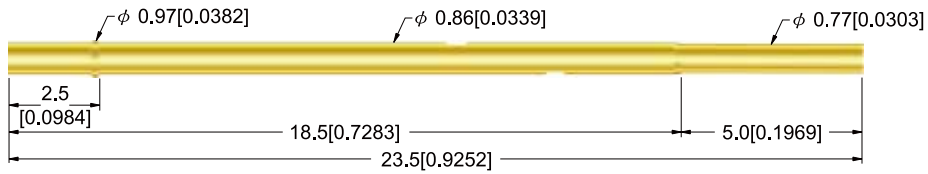
### R-02VC



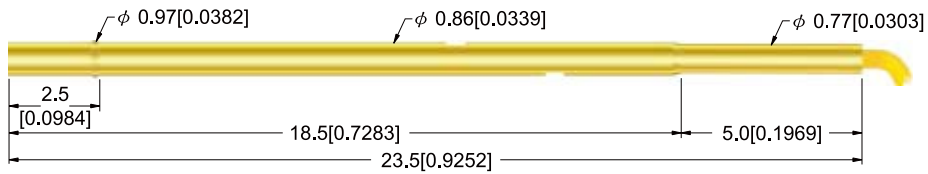
### R-02V(W)



### R-02WC



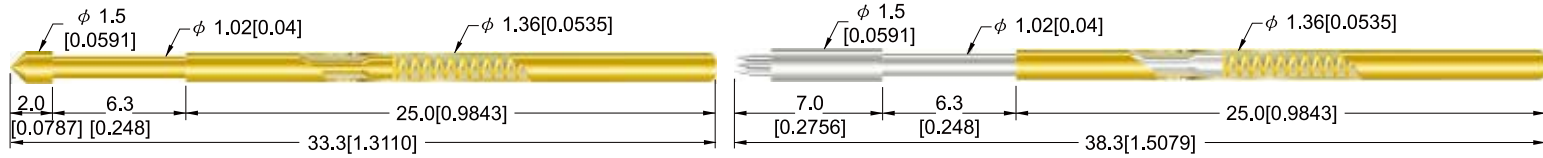
### R-02W(W)



尾端導線：鉚線，焊線  
Receptacle with Terminal Wire

線長：700mm  
Wire Length: 700mm

單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

鈹銅或高碳鋼鍍金或鍍鎳  
Beryllium Copper or SK4  
with Gold Plated or Nickel Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

琴鋼線鍍金  
Music Wire with Gold Plated

### 外管 Receptacle

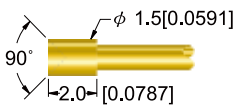
磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 規格 Specification

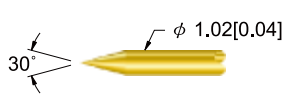
最小中心距 Min. Center	2.54mm (0.0100)
最大行程 Full Stroke	6.30mm (0.2480)
行程全壓彈力 ( $\pm 20\%$ ) Full Stroke Spring Force ( $\pm 20\%$ )	350g (12.34oz)
2/3行程彈力 ( $\pm 20\%$ ) 2/3 Stroke Spring Force ( $\pm 20\%$ )	230g (8.11oz)
額定電流 Current Rating	3A (安培)
接觸電阻 Contact Resistance	75m $\Omega$ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	1.70mm (0.0669)~1.75mm (0.0689)

\*規格變動不另行通知 Specification Subject to change without notice

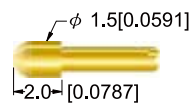
P-25A



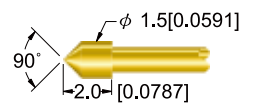
P-25B(SK)



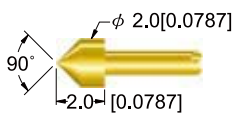
P-25D



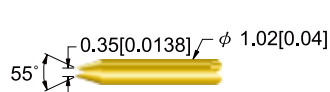
P-25E



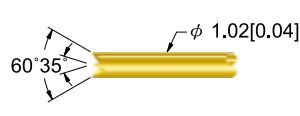
P-25E1



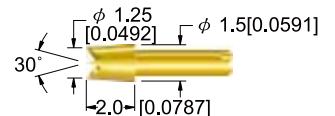
P-25F(SK4)



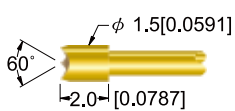
P-25F1(SK4)



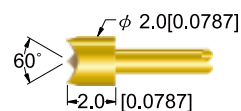
P-25F2



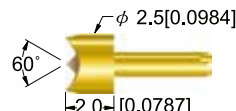
P-25H



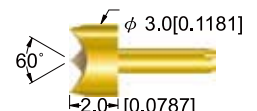
P-25H1



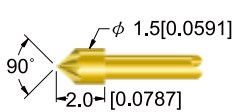
P-25H3



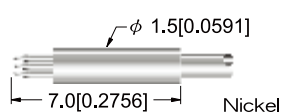
P-25H5



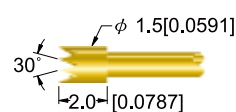
P-25K



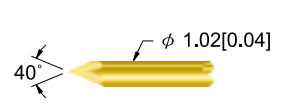
P-25M3



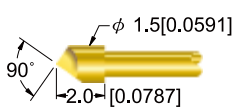
P-25Q1



P-25T1(SK4)



P-25T2



# R-25

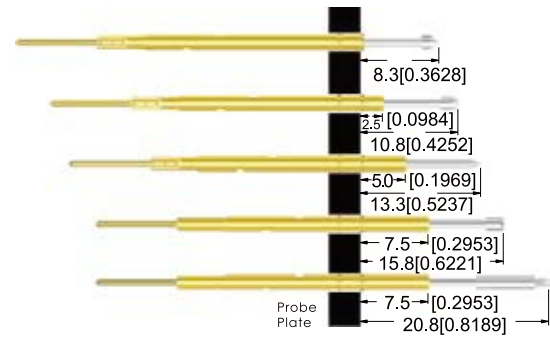
## RECEPTACLES SERIES

單位：(英寸) Dimensions In Millimeter (inch)

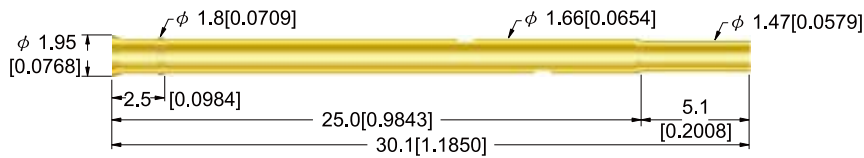
右圖表示在外套管壓配後有4種高度，在實板測試時因零件腳部高低不同，可選用不同高度的外套管以調探針伸縮之適當行程達成最佳測試效果。

The picture on the right side show four different heights after receptacles are pressed. For loaded board, to cope with different component leads' heights, you can select different receptacles to adjust the height to have a fine contact during the test.

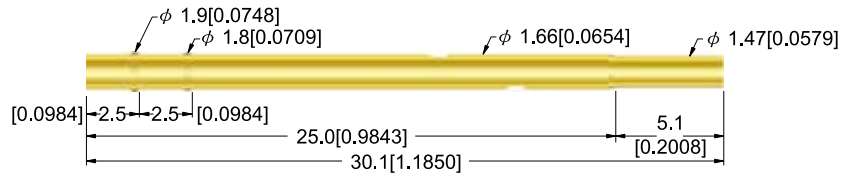
\*規格變動不另行通知 Specification Subject to change without notice



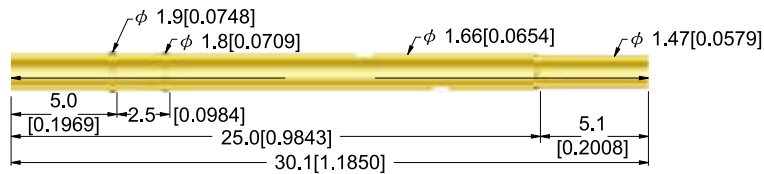
### R-25W1C



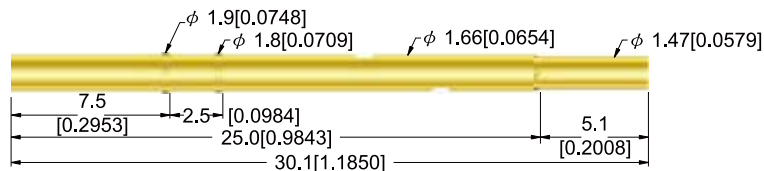
### R-25W2C



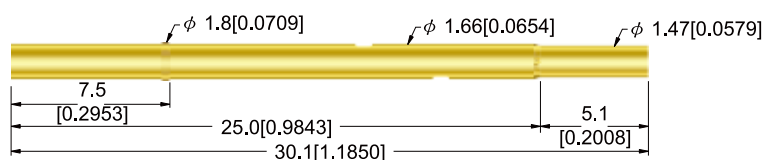
### R-25W3C



### R-25W4C



### R-25W5C





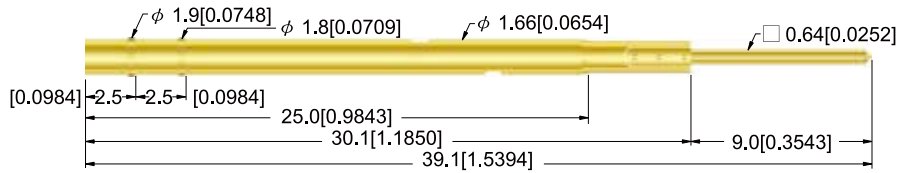


# R-25

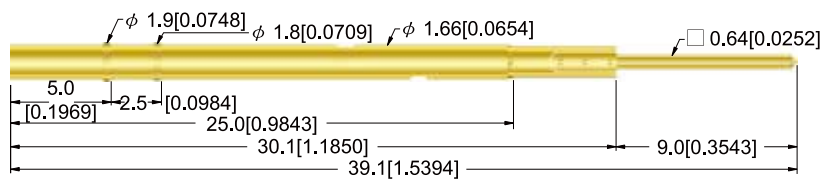
## RECEPTACLES SERIES

單位：(英吋) Dimensions In Millimeter (inch)

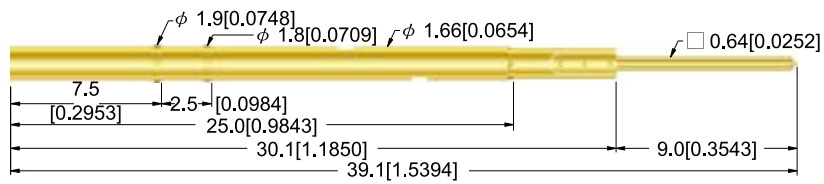
### R-25W2W



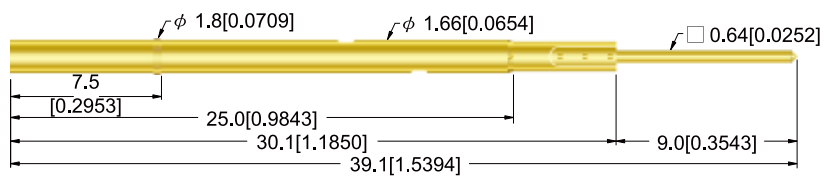
### R-25W3W



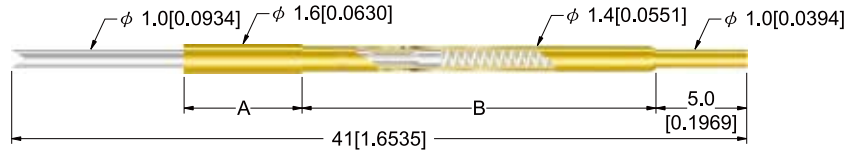
### R-25W4W



### R-25W5W



單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

高碳鋼鍍鎳  
High Carbon Steel with Nickel Plated

### 內管 Barrel

磷青銅鍍金  
Phosphor Bronze with Gold Plated

### 彈簧 Spring

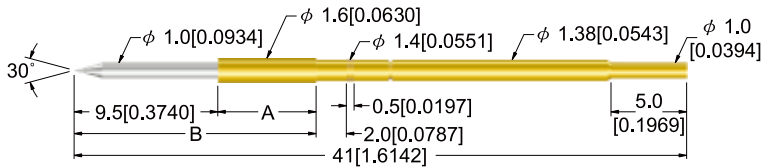
不鏽鋼  
Stainless Steel

### 規格 Specification

最小中心距 Min. Center	2.0mm (0.0787)
最大行程 Full Stroke	6~7mm (0.2362~0.2756)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	170g (6.00oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	110g (3.88oz)
裝置方式	Press (置入)
建議鑽孔尺寸 Recommended Hole Size	1.40mm (0.0551)

\*規格變動不另行通知 Specification Subject to change without notice

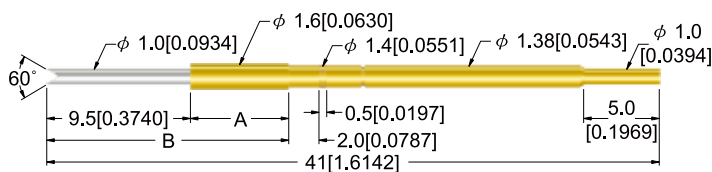
### CCP-05B



#### 品名 MODEL

	A	B
CCP-05B (10)	0.5 (0.0197)	26 (1.0236)
CCP-05B (16)	6.5 (0.2559)	20 (0.7874)

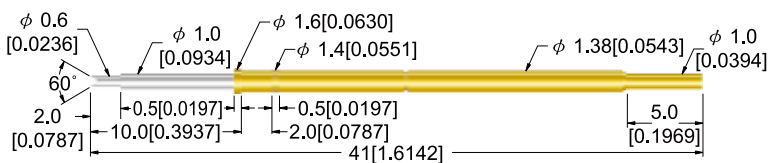
### CCP-05F



#### 品名 MODEL

	A	B
CCP-05F (10)	0.5 (0.0197)	26 (1.0236)
CCP-05F (16)	6.5 (0.2559)	20 (0.7874)

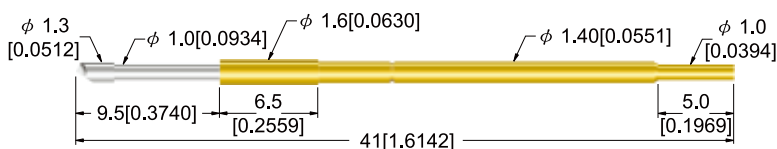
### CCP-05F1



#### 品名 MODEL

	A	B
CCP-05T (10)	0.5 (0.0197)	26 (1.0236)
CCP-05T (16)	6.5 (0.2559)	20 (0.7874)

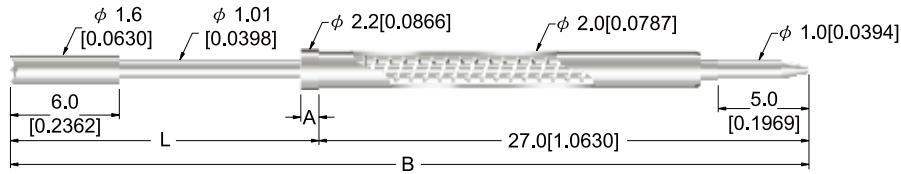
### CCP-05T



# CCP-10

## CCP SERIES

單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

高碳鋼鍍鎳  
High Carbon Steel with Nickel Plated

### 內管 Barrel

青銅鍍鎳  
Brass with Nickel Plated

### 彈簧 Spring

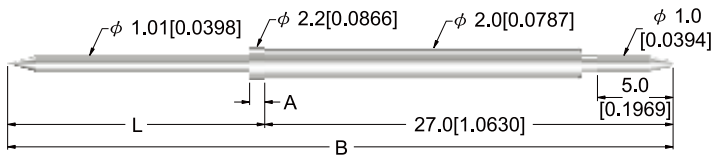
不鏽鋼  
Stainless Steel

### 規格 Specification

最小中心距 Min. Center	2.5 mm (0.0984)
最大行程 Full Stroke	6~7mm (0.2362~0.2756)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	270g (9.52oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	180g (6.35oz)
裝置方式	Press (置入)
建議鑽孔尺寸 Recommended Hole Size	2.0mm (0.0787)

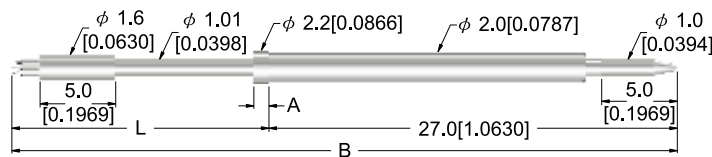
\*規格變動不另行通知 Specification Subject to change without notice

### CCP-10B(L)



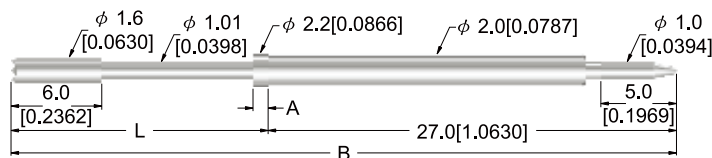
品名 MODEL	A	B	L
CCP-10B (16)	1 (0.0394)	4.3 (1.6929)	16 (0.6299)
CCP-10B (23)	4 (0.1575)	50 (1.9685)	23 (0.9055)

### CCP-10M3(L)



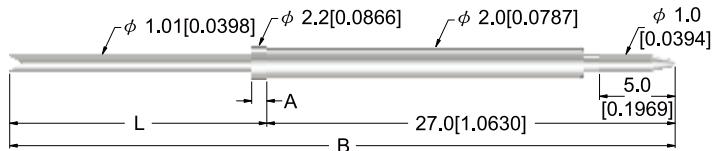
品名 MODEL	A	B	L
CCP-10M3 (16)	1 (0.0394)	43 (1.6929)	16 (0.6299)
CCP-10M3 (23)	4 (0.1575)	50 (1.9685)	23 (0.9055)

### CCP-10H(L)



品名 MODEL	A	B	L
CCP-10H (16)	1 (0.0394)	43 (1.6929)	16 (0.6299)
CCP-10H (23)	4 (0.1575)	50 (1.9685)	23 (0.9055)

### CCP-10F(L)



品名 MODEL	A	B	L
CCP-10F (16)	1 (0.0394)	43 (1.6929)	16 (0.6299)
CCP-10F (23)	4 (0.1575)	50 (1.9685)	23 (0.9055)

單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

高碳鋼鍍鎳  
High Carbon Steel with Nickel Plated

### 內管 Barrel

塑鋼  
Antiwear Resin

### 彈簧 Spring

不鏽鋼  
Stainless Steel

### 外管 Sleeve

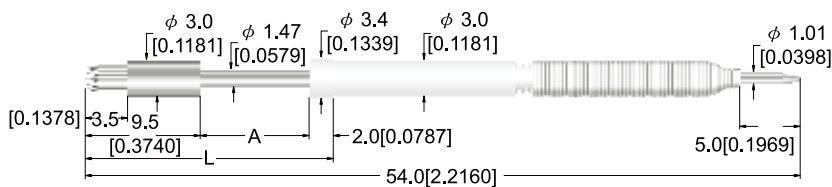
塑鋼外管  
Antiwear Resin Sleeve

### 規格 Specification

最小中心距 Min. Center	3.5mm (0.1378)
最大行程 Full Stroke	6~7mm (0.2362-0.2756)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	270g (9.52oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	180g (6.35oz)
裝置方式	Press (置入)
建議鑽孔尺寸 Recommended Hole Size	3.0mm (0.1181)

\*規格變動不另行通知 Specification Subject to change without notice

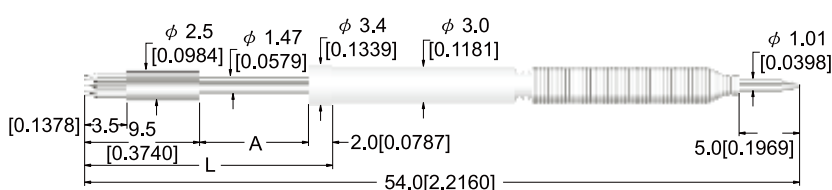
### CCP-15M7(L)



#### 品名 MODEL

品名 MODEL	L	A
CCP-15M7 (20)	20 (0.7874)	85 (0.3345)
CCP-15M7 (23)	23 (0.9055)	11.5 (0.4528)

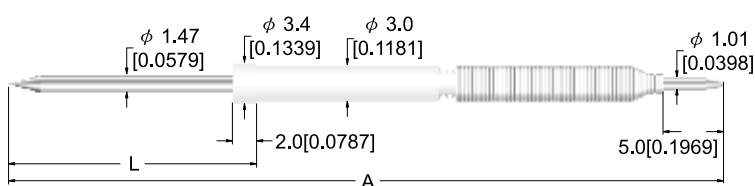
### CCP-15M3(L)



#### 品名 MODEL

品名 MODEL	L	A
CCP-15M3 (20)	20 (0.7874)	85 (0.3345)
CCP-15M3 (23)	23 (0.9055)	11.5 (0.4528)

### CCP-15B(L)



#### 品名 MODEL

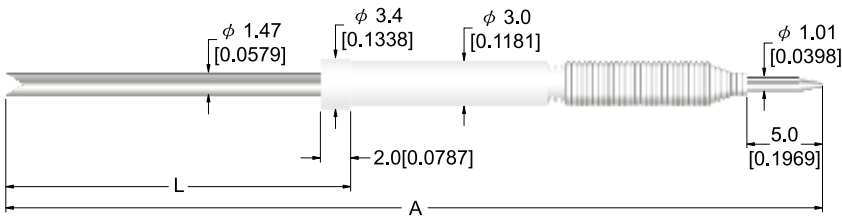
品名 MODEL	L	A
CCP-15B (16)	16 (0.5300)	50 (1.9685)
CCP-15B (20)	20 (0.7874)	54 (2.1260)
CCP-15B (23)	23 (0.9055)	54 (2.1260)

# CCP-15

## CCP SERIES

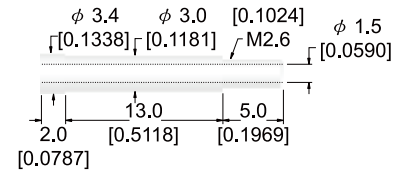
單位：(英吋) Dimensions In Millimeter (inch)

### CCP-15F(L)



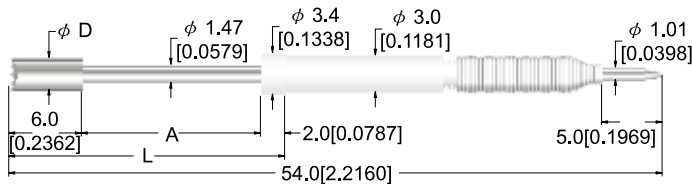
品名 MODEL	L	A	最小中心距 Min. Center
CCP-15F (16)	16 (0.6300)	50 (1.9635)	3.5mm (0.1378)
CCP-15F (20)	20 (0.7874)	54 (2.1260)	3.5mm (0.1378)
CCP-15F (23)	12 (0.9055)	54 (2.1260)	3.5mm (0.1378)

### 塑鋼外管



材質 Material	耐熱溫度 Heat-Proof Temperature
塑鋼 Antiwear Resin	100° C

### CCP-15H(∅D)(L)



品名 MODEL	L	A	D	最小中心距 Min. Center
CCP-15H (∅2.6)(20)	20 (0.7874)	12 (0.4724)	2.6 (0.1024)	3.5mm (0.1378)
CCP-15H (∅2.6)(23)	23 (0.9055)	15 (0.5906)	2.6 (0.1024)	3.5mm (0.1378)
CCP-15H (∅3.2)(20)	20 (0.7874)	12 (0.4724)	3.2 (0.1260)	3.5mm (0.1378)
CCP-15H (∅3.2)(23)	23 (0.9055)	15 (0.5906)	3.2 (0.1260)	3.5mm (0.1378)
CCP-15H (∅4.0)(20)	20 (0.7874)	12 (0.4724)	4.0 (0.1575)	4.5mm (0.1772)
CCP-15H (∅4.0)(23)	23 (0.9055)	15 (0.5906)	4.0 (0.1575)	4.5mm (0.1772)

### 彈簧 Spring



品名 MODEL	D	L	線徑 Diameter
∅0.35*14	2.9 (0.1142)	14 (0.5512)	0.35mm (0.138)
∅0.35*12	2.9 (0.1142)	12 (0.4724)	0.35mm (0.138)
材質 Material	不鏽鋼 Stainless Steel		
用途 Application	CCP-15□(16) CCP-15□(20) CCP-15□(23)		

單位：(英吋) Dimensions In Millimeter (inch)

### 針軸 Plunger

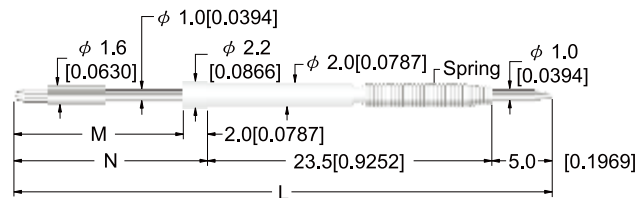
高碳鋼鍍鎳  
High Carbon Steel with Nickel Plated

### 內管 Barrel

塑鋼  
Antiwear Resin

### 彈簧 Spring

不鏽鋼  
Stainless Steel

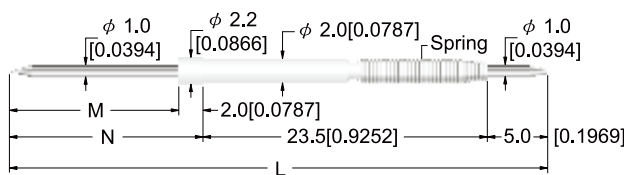


\*規格變動不另行通知 Specification Subject to change without notice

### 使用行程 Recommended Stroke

6.0mm(0.2362)

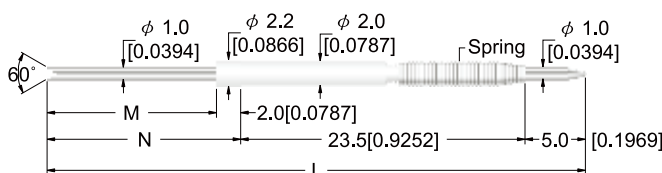
#### CCP-101B



#### 尺寸 Dimension 型號 Item No.

型號 Item No.	M	N	L
CCP-101B(16)	14 (0.5512)	16 (0.630)	44.5 (1.7520)
CCP-101B(22)	20 (0.7874)	22 (0.8661)	50.5 (1.9882)

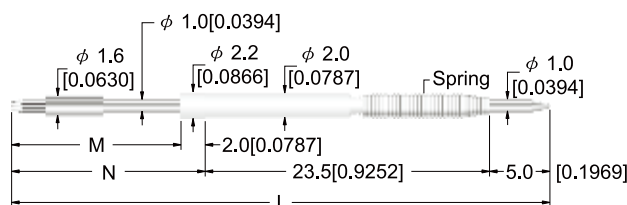
#### CCP-101F



#### 尺寸 Dimension 型號 Item No.

型號 Item No.	M	N	L
CCP-101F(16)	14 (0.5512)	16 (0.630)	44.5 (1.7520)
CCP-101F(22)	20 (0.7874)	22 (0.8661)	50.5 (1.9882)

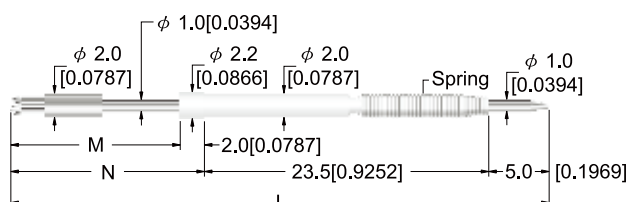
#### CCP-101M3



#### 尺寸 Dimension 型號 Item No.

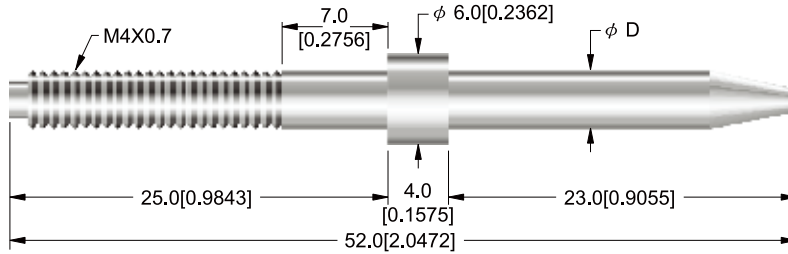
型號 Item No.	M	N	L
CCP-101M3(16)	14 (0.5512)	16 (0.630)	44.5 (1.7520)
CCP-101M3(22)	20 (0.7874)	22 (0.8661)	50.5 (1.9882)

#### CCP-101M7



#### 尺寸 Dimension 型號 Item No.

型號 Item No.	M	N	L
CCP-101M7(16)	14 (0.5512)	16 (0.630)	44.5 (1.7520)
CCP-101M7(22)	20 (0.7874)	22 (0.8661)	50.5 (1.9882)

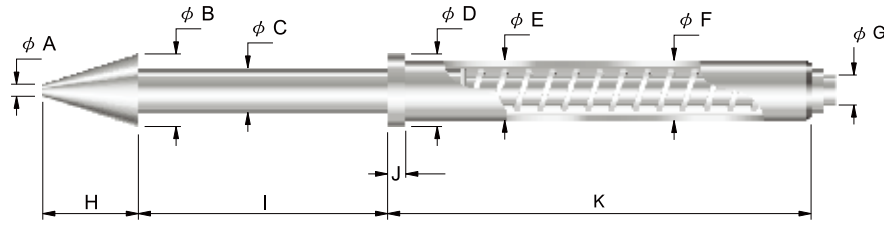


### 實板用 (For Loaded Board) Material: Copper

型號 Model	$\phi$ D	型號 Model	$\phi$ D
GL - 1S	$\phi$ 1.95(0.0768)	GL - 9S	$\phi$ 4.45(0.1752)
GL - 2S	$\phi$ 2.45(0.0965)	GL - 10S	$\phi$ 4.95(0.1949)
GL - 3S	$\phi$ 2.95(0.1161)	GL - 11S	$\phi$ 5.95(0.2343)
GL - 4S	$\phi$ 3.15(0.1240)	GL - 12S	$\phi$ 3.25(0.1280)
GL - 5S	$\phi$ 3.45(0.1358)	GL - 13S	$\phi$ 3.35(0.1319)
GL - 6S	$\phi$ 3.75(0.1476)	GL - 14S	$\phi$ 2.35(0.0925)
GL - 7S	$\phi$ 3.85(0.1516)	GL - 15S	$\phi$ 2.75(0.1083)
GL - 8S	$\phi$ 3.95(0.1555)	GL - 16S	$\phi$ 2.85(0.1122)



單位：(英吋) Dimensions In Millimeter (inch)



### 規格 Specification

行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	300g (10.58oz)	350g (12.34oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	200g (7.05oz)	290g (10.23oz)
建議鑽孔尺寸 Recommended Hole Size	5.00mm (0.1969)	5.00mm (0.1969)
適用探針型號 Suitable For	CCP-15M3-23L	CCP-10-16L / CCP-101-16L / P-25 / P-111

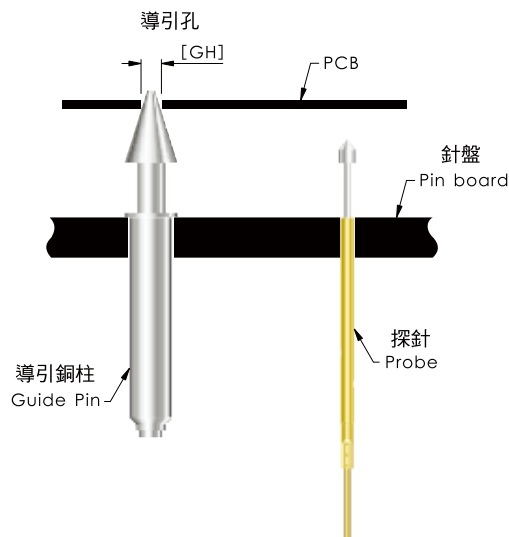
\*規格變動不另行通知 Specification Subject to change without notice

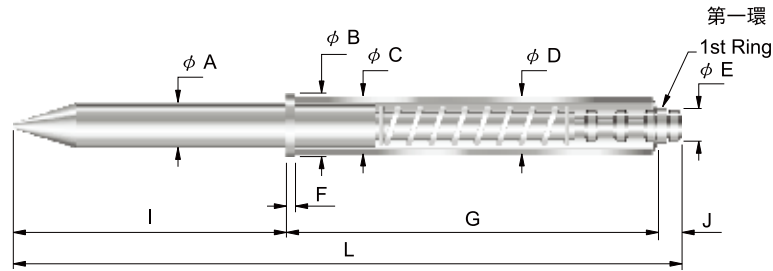
### 實板用 Guide Pin (For Loaded Board)

規格 Spec 型號 Type	ϕA	ϕB	ϕC	ϕD	ϕE	ϕF	ϕG
I1-6.0	1.00(0.0394)	6.00(0.2362)	3.67(0.1445)	6.00(0.2362)	5.00(0.1969)	4.95(0.1949)	2.48(0.0976)
GP-2J	1.00(0.0394)	6.50(0.2559)	3.68(0.1449)	6.00(0.2362)	5.00(0.1969)	4.95(0.1949)	2.53(0.0996)

規格 Spec 型號 Type	H	I	J	K	導引孔大小 (GH) O. D. PCB (GH)
I1-6.0	7.90(0.3110)	20.60(0.8110)	1.50(0.0591)	35.00(1.3780)	1.0/1.05mm (0.0394)/(0.0413)
GP-2J	7.80(0.3071)	13.80(0.5433)	1.00(0.0394)	25.00(0.9843)	1.30/1.35mm (0.0512)/(0.0531)





規格 Specification	GP-1P	GP-2P	GP-3P	GP-5P
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	150g (5.29oz)	170g (6.00oz)	300g (10.58oz)	300g (10.58oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	100g (3.53oz)	120g (4.23oz)	220g (7.76oz)	230g (8.11oz)
建議鑽孔尺寸 Recommended Hole Size	3.20mm (0.1260)	5.00mm (0.1969)	6.00mm (0.2362)	4.50mm (0.1772)
適用探針型號 Suitable For	P-048/ P-1/ P-0 P-058/ P-23	P-21/ P-11/ P-2	P-048/ P-1/ P-0 P-058/ P-23	P-21/ P-11/ P-2

\*規格變動不另行通知 Specification Subject to change without notice

### 空板用 Guide Pin (For Bare Board)

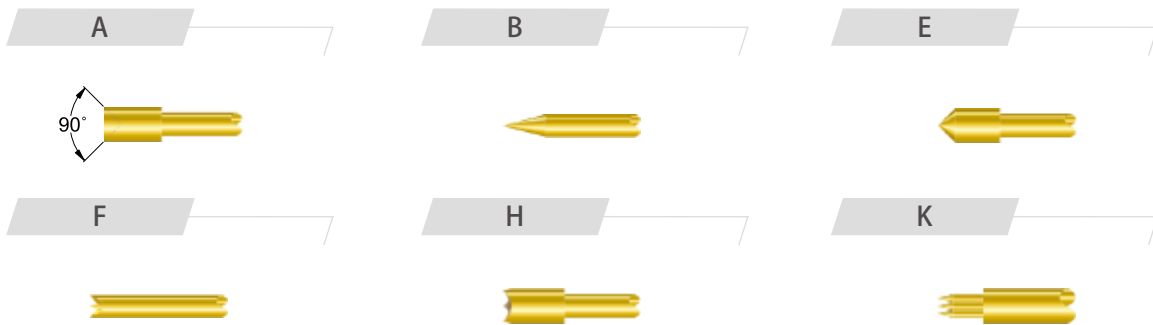
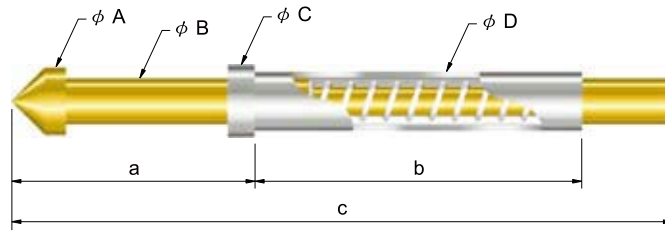
規格 Spec 型號 Type	φA	φB	φC	φD	φE	F	G	L	導引孔大小 (GH) O. D. P CB (GH)
GP-1P	2.48 (0.0976)	3.50 (0.1378)	3.20 (0.1260)	3.15 (0.1240)	1.83 (0.0720)	0.50 (0.0197)	20.00 (0.7874)	32.80 (1.2913)	1.0/ 1.5mm (0.0394)/(0.0591)
GP-2P	3.98 (0.1567)	5.50 (0.2165)	5.00 (0.1969)	4.95 (0.1949)	2.53 (0.0996)	0.50 (0.0197)	25.00 (0.9843)	38.60 (1.5197)	1.0/ 3.0mm (0.0394)/(0.1181)
GP-3P	4.98 (0.1967)	7.00 (0.2756)	6.00 (0.2362)	5.95 (0.2343)	2.53 (0.0996)	0.50 (0.0197)	25.00 (0.9843)	38.50 (1.5157)	1.0/ 3.7mm (0.0394)/(0.1457)
GP-5P	3.48 (0.1370)	5.00 (0.1969)	4.50 (0.1772)	4.45 (0.1752)	2.53 (0.0996)	0.50 (0.0197)	25.00 (0.9843)	39.40 (1.5512)	1.0/ 3.0mm (0.0394)/(0.1181)

I	第一環 1st Ring	第二環 2nd	第三環 3rd	第四環 4th	J	第一環 1st Ring	第二環 2nd	第三環 3rd	第四環 4th
GP-1P	11.60 (0.4567)	10.40 (0.4094)	9.20 (0.3622)	8.00 (0.3150)	GP-1P	1.20 (0.0472)	2.40 (0.0945)	3.60 (0.1417)	4.80 (0.1890)
GP-2P	12.15 (0.4783)	9.70 (0.3819)	7.25 (0.2854)	4.80 (0.1890)	GP-2P	1.45 (0.0571)	3.90 (0.1535)	3.65 (0.2500)	8.80 (0.3465)
GP-3P	12.25 (0.4823)	9.80 (0.2756)	7.35 (0.2894)		GP-3P	1.25 (0.0492)	3.70 (0.1457)	6.15 (0.2421)	
GP-5P	12.95 (0.5098)	11.00 (0.4331)	9.05 (0.3563)	7.10 (0.2795)	GP-5P	1.45 (0.0571)	3.40 (0.1339)	5.35 (0.2106)	7.30 (0.2874)

# CSP-1~CSP-5

## CSP SERIES

單位：(英吋) Dimensions In Millimeter (inch)



	CSP-1	CSP-2	CSP-3	CSP-4	CSP-5
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	100g (3.53oz)	100g (3.53oz)	150g (5.29oz)	150g (5.29oz)	200g (7.05oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	70g (2.47oz)	70g (2.47oz)	100g (3.53oz)	100g (3.53oz)	140g (4.94oz)
建議鑽孔尺寸 Recommended Hole Size	1.00mm(0.0394) 1.05mm(0.0413)	1.30mm(0.0512) 1.35mm(0.0531)	1.80mm(0.0709) 1.85mm(0.0728)	2.30mm(0.0906) 2.35mm(0.0925)	3.20mm(0.1260) 3.25mm(0.1280)
針軸材質 Probe Materials	鍍銅 Becu	鍍銅 Becu	鍍銅 Becu	鍍銅 Becu	青銅 Brass
接線形式 Connections	焊接 Solder	焊接 Solder	焊接 Solder	焊接或插 1.0 端子線 Solder or Crimp 1.0mm Terminal Wire	焊接或插 1.5 端子線 Solder or Crimp 1.5mm Terminal Wire

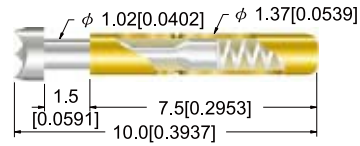
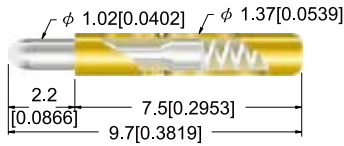
\*規格變動不另行通知 Specification Subject to change without notice

規格 Spec 型號 Type	ϕA	ϕB	ϕC	ϕD	a	b	c	行程 Stroke	最小中心距 Min. Center
CSP-1	1.30 (0.0512)	0.75 (0.0295)	1.20 (0.0472)	0.98 (0.0386)	7 (0.2756)	9.50 (0.3740)	20.50 (0.8071)	4.50mm (0.1772)	1.70mm (0.0669)
CSP-2	1.50 (0.0591)	0.95 (0.0374)	1.50 (0.0591)	1.34 (0.0528)	10 (0.3937)	13.00 (0.5118)	27.00 (1.0630)	6.00mm (0.2362)	2.00mm (0.0787)
CSP-3	2.00 (0.0787)	1.29 (0.0508)	2.00 (0.0787)	1.83 (0.0720)	16 (0.6299)	16.00 (0.6299)	36.00 (1.4173)	12.00mm (0.4724)	2.50mm (0.0984)
CSP-4	2.50 (0.0984)	1.80 (0.0709)	2.50 (0.0984)	2.33 (0.0917)	16 (0.6299)	18.00 (0.7087)	38.00 (1.4961)	10.50mm (0.4134)	3.00mm (0.1181)
CSP-5	3.50 (0.1378)	2.50 (0.0984)	3.50 (0.1378)	3.23 (0.1272)	16 (0.6299)	18.00 (0.7087)	38.00 (1.4961)	10.00mm (0.3937)	4.20mm (0.1654)

# CSP-6

## CSP SERIES

單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

鈹銅鍍銠或鍍金  
Beryllium Copper  
with Rhodium Plated or Gold Plated

### 內管 Barrel

青銅鍍金  
Brass with Gold Plated

### 彈簧 Spring

不鏽鋼  
Stainless Steel

### 外管 Sleeve

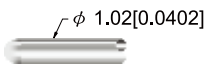
青銅鍍金  
Brass with Gold Plated

### 規格 Specification

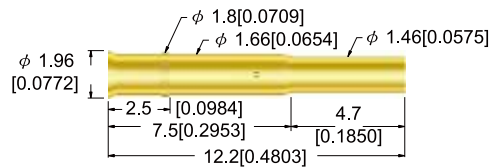
最小中心距 Min. Center	2.54mm (0.10000)
最大行程 Full Stroke	1.50mm (0.0591)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	110g (3.88oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	80g (2.82oz)
額定電流 Current Rating	3A (安培)
接觸電阻 Contact Resistance	30 mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	1.70mm(0.0669)~1.75mm(0.0689)

\*規格變動不另行通知 Specification Subject to change without notice

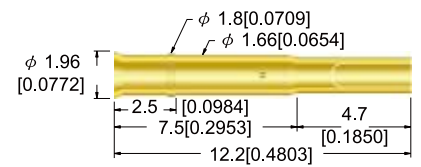
### CSP-6D



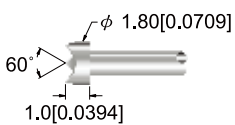
### CSR-6V



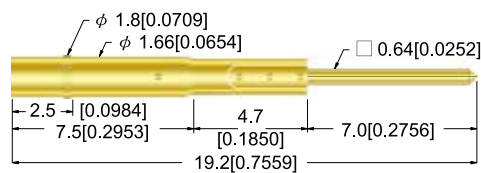
### CSR-6VS



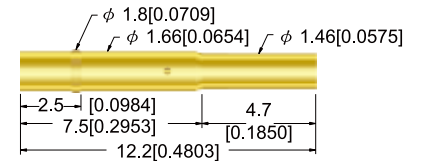
### CSP-6H



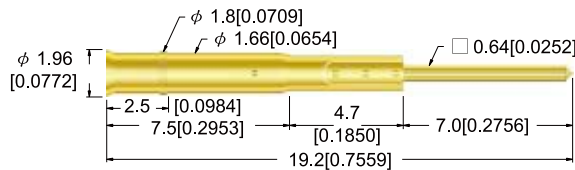
### CSR-6V-2



### CSR-6WC



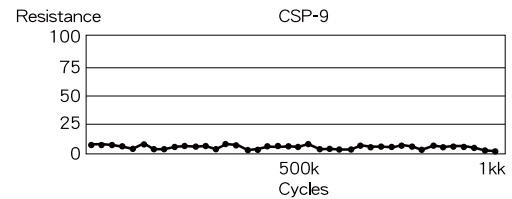
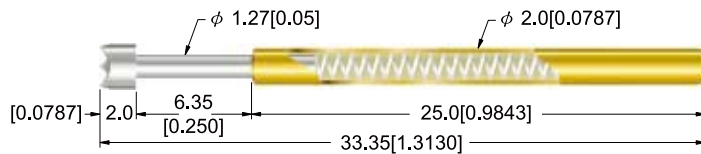
### CSR-6W-2



### CSR-6WS



單位：(英吋) Dimensions In Millimeter (inch)



### 針軸 Plunger

鈹銅鍍銠或鍍金  
Beryllium Copper  
with Rhodium Plated or Gold Plated

### 內管 Barrel

青銅鍍金  
Brass with Gold Plated

### 彈簧 Spring

不鏽鋼  
Stainless Steel

### 外管 Sleeve

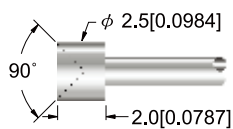
青銅鍍金  
Brass with Gold Plated

### 規格 Specification

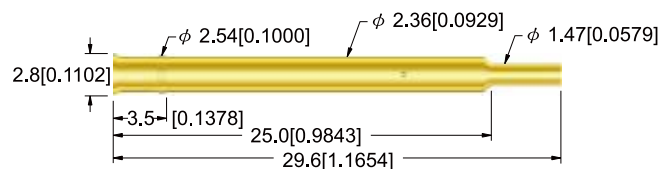
最小中心距 Min. Center	3.17mm (0.1248)
最大行程 Full Stroke	6.35mm (0.2500)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	150g (5.29oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	100g (3.53oz)
額定電流 Current Rating	5A (安培)
接觸電阻 Contact Resistance	30 mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	2.40mm(0.0945)~2.45mm(0.0965)

\*規格變動不另行通知 Specification Subject to change without notice

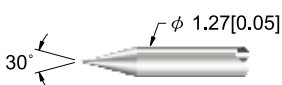
### CSP-9A



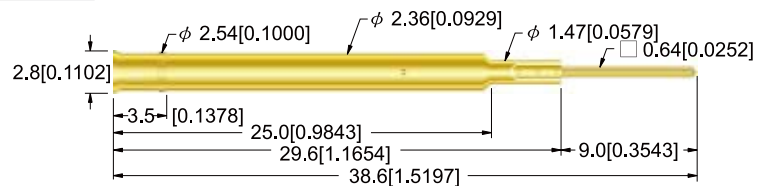
### CSR-9V-C



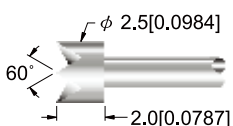
### CSP-9B



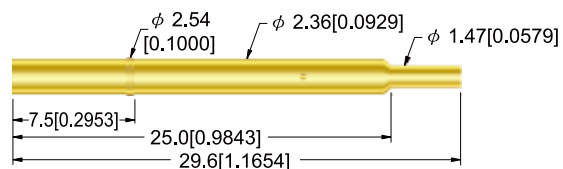
### CSR-9V-1



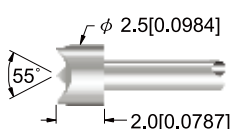
### CSP-9F



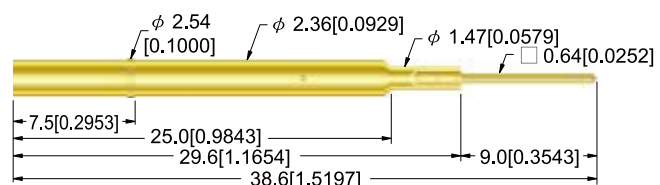
### CSR-9WC



### CSP-9H



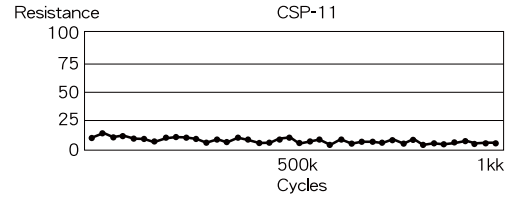
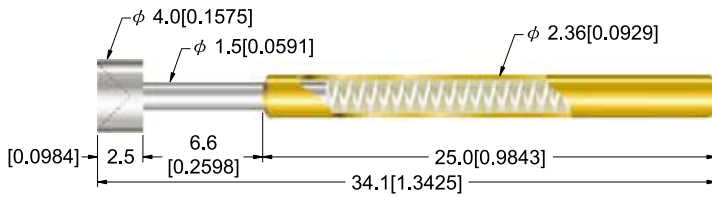
### CSR-9W-1



# CSP-11

## CSP SERIES

單位：(英吋) Dimensions In Millimeter (inch)

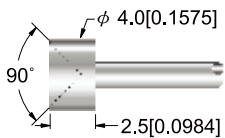


- 針軸 Plunger**  
鍍銅鍍銠或鍍金  
Beryllium Copper  
with Rhodium Plated or Gold Plated
- 內管 Barrel**  
青銅鍍金  
Brass with Gold Plated
- 彈簧 Spring**  
不鏽鋼  
Stainless Steel
- 外管 Sleeve**  
青銅鍍金  
Brass with Gold Plated

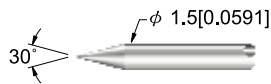
規格 Specification	
最小中心距 Min. Center	3.97mm (0.1563)
最大行程 Full Stroke	6.60mm (0.2598)
行程全壓彈力 (±20%) Full Stroke Spring Force (±20%)	150g (5.29oz)
2/3行程彈力 (±20%) 2/3 Stroke Spring Force (±20%)	100g (3.53oz)
額定電流 Current Rating	5A (安培)
接觸電阻 Contact Resistance	30 mΩ (豪歐姆)
建議鑽孔尺寸 Recommended Hole Size	2.70mm(0.1063)~2.75mm(0.1083)

\*規格變動不另行通知 Specification Subject to change without notice

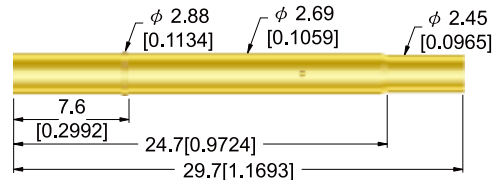
CSP-11A



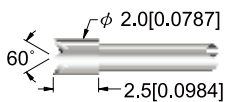
CSP-11B



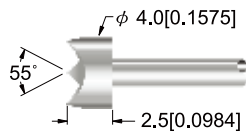
CSP-11W1



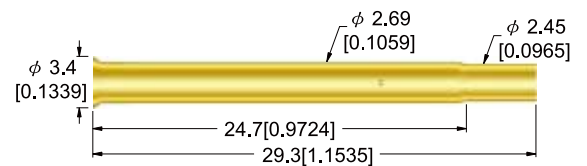
CSP-11F



CSP-11H



CSP-11V1



# COAXIAL PROBE

單位：(英寸) Dimensions In Millimeter (inch)



單位 Unit : A(mm), B(mm)

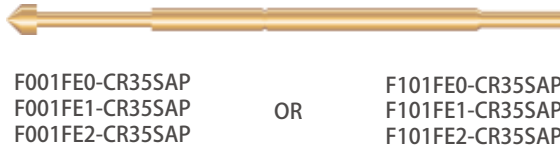


單位 Unit : A(mm), B(mm)

## Signal: H爪類型 H Style



## Signal: E爪類型 E Style



### Signal 規格 Signal Spec

### 長度 規格 Length Spec

規格 Spec.	尺寸 A Dimension A	尺寸 B Dimension B
H0	∅0.9mm	35cm
E0	∅0.9mm	
E1	∅1.6mm	60cm
E2	∅1.2mm	

(FXXXXXX-CR60SAP)

### 電器特性 Electrical

外導體最大電流 Ground Current Rating	3A (安培)
中心導體最大電流 Signal Current Rating	3A (安培)
匹配阻抗 Impedance	50±10Ω
頻寬 Band Width	-0.3db @ 3G Hz

### 機械特性 Mechanical

Signal 最大行程 Signal Full Stroke	2.65mm
Signal 行程彈力 Signal Spring Force @2/3 Travel	60±20%

\*規格變動不另行通知 Specification Subject to change without notice

### 應用 Application

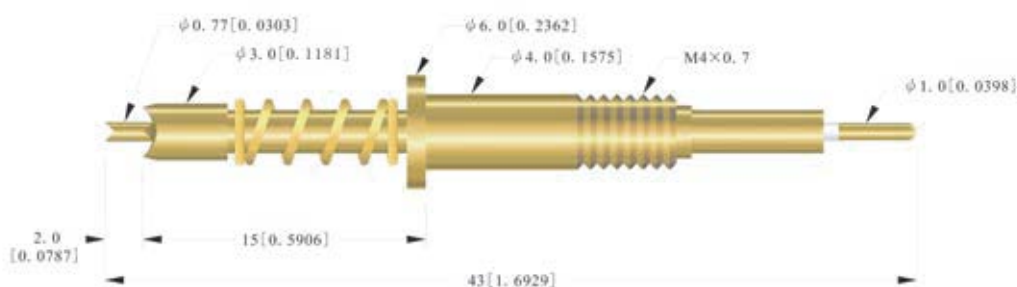
計算機和光纖通訊、衛星通信、移動無線及各種廣播之類的大容量高速傳輸、寬頻資訊傳輸技術以及各種感測器和遙控感測器的測定技術等……

For the transmission of high volume, frequency, and wideband information transmission techniques applied in computer, optical fiber communication, satellite communication, mobile RF, radio broadcast and the testing technique of various sensor, remote sensors.

# HIGH CURRENT COAXIAL PROBE

單位：(英寸) Dimensions In Millimeter (inch)

CS90046M1



## 電器特性 Electrical

最大電流 Max Continuous Current Contact Sleeve	6A (安培)
中心導體 Max Continuous Current Contact Plunger	3A (安培)
鑽孔 Hole Size	
最小中心距 Recommended Min Center	7mm (0.2756)
鑽孔尺寸 Mounting Hole Size	4mm (0.1575)

## 機械特性 Mechanical

最大行程 Full Stroke	4.0mm (0.1575)
外行程 Outer Stroke	3.0mm (0.1180)
內行程 Central Stroke	2.0mm (0.0787)
外行程彈力 Outer Spring	500g ± 20%
內行程彈力 Central Spring	130g ± 20%

\*規格變動不另行通知 Specification Subject to change without notice

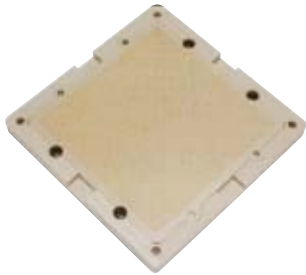
## 應用 Application

電池活化測試 Battery System Activated Element Test  
 電池測試 Battery Contact Test  
 電流、訊號傳遞測試 Capability Of Electric Current Signal Transmission Test

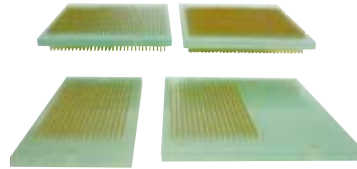


# PERIPHERALS OF FIXTURE

單位：(英吋) Dimensions In Millimeter (inch)



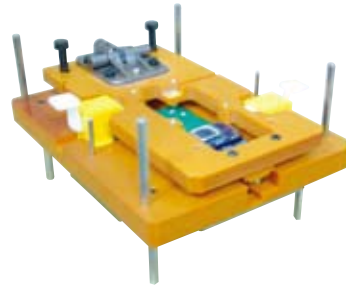
IC SOCKET 模組  
IC Test Socket



四角 PIN 轉接座  
Wire Wrapping Post Set



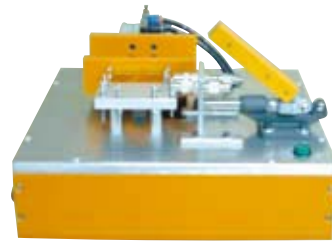
LCD 測試治具  
LCD Testing Fixture



手機測試治具  
Mobile Phone Testing Fixture



GPS 測試治具  
GPS Testing Fixture



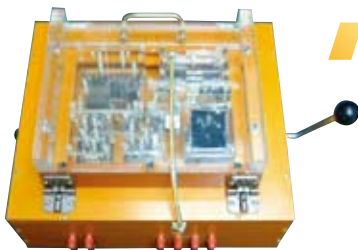
RF 模組測試治具  
RF Module Testing Fixture



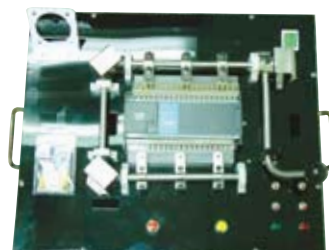
RF IC 模組測試治具  
RF IC Module Testing Fixture



連接器測試治具  
Connector Testing Fixture



曲柄式治具  
Cam Type Testing Fixture



齒輪式測試治具  
Gear Type Testing Fixture



氣動式測試治具  
Air Pressure Type Testing Fixture



鋰電池測試機  
Li Battery Testing Fixture

# PERIPHERALS OF FIXTURE

單位：(英寸) Dimensions In Millimeter (inch)



CCPC-34-SGT



CCPC-34-WNT



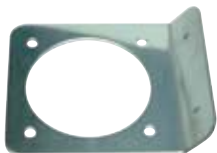
CCPC-64-SGT



CCPC-64-WNT



CCPE-HC



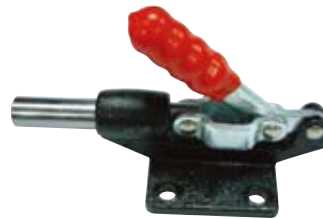
CCPE-MS



CCPG-21



CCPJ-C1  
Spec: 16m/m



CCPJ-C2  
Spec: 30.2m/m



CCPJ-C3  
Spec: 41.4m/m



CCPJ-C4  
Spec: 60.4m/m



CCPJ-F1



CCPJ-P1



CCPJ-P2

# PERIPHERALS OF FIXTURE

單位：(英吋) Dimensions In Millimeter (inch)



CCPJ-S1



CCPJ-S8



CCPJ-S2



CCPJ-L2



CCPJ-S3



CCPJ-L3



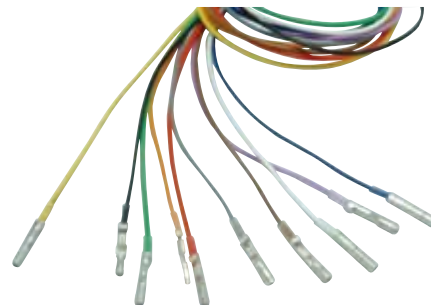
CCPJ-S4



CCPT-3907



CCPJ-S5



CCPW-J10



CCPJ-S6



CCPJ-S7



CCPW-T1000

# VERIFICATION ABILITY

## Testing Items

### Environmental

- Waterproof
- Humidity Test
- Salt Spray
- Thermal Impact
- Resistance to Solder Heat
- Vibration

### Electrical

- Contact Resistance
- Insulation
- HIPOT
- Rated Current

### Mechanical

- Retention Force
- Life Cycle
- Vibration
- Mechanical Shock

### Other

- Drop
- Soldering Side Force
- Solderability

## Testing Equipment

### Rated Current

Max Rating: 1000Amp



### Waterproof Test Level

Test Level: IPx8 Up



### Thermal Impact

Range: -60~120°C  
Resolution: 0.01°C



### Vibration

Frequency: 3500 Hz Max  
Acceleration: 50G Max



## ISO 9001: 2015

Quality Management Systems

## ISO 13485: 2016

Medical devices - Quality management systems

## ISO 14001: 2015

Environmental Management Systems

## IATF 16949: 2016

Automotive Quality Management Systems

## QC 080000

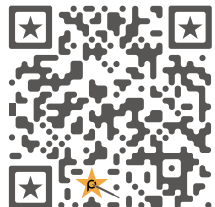
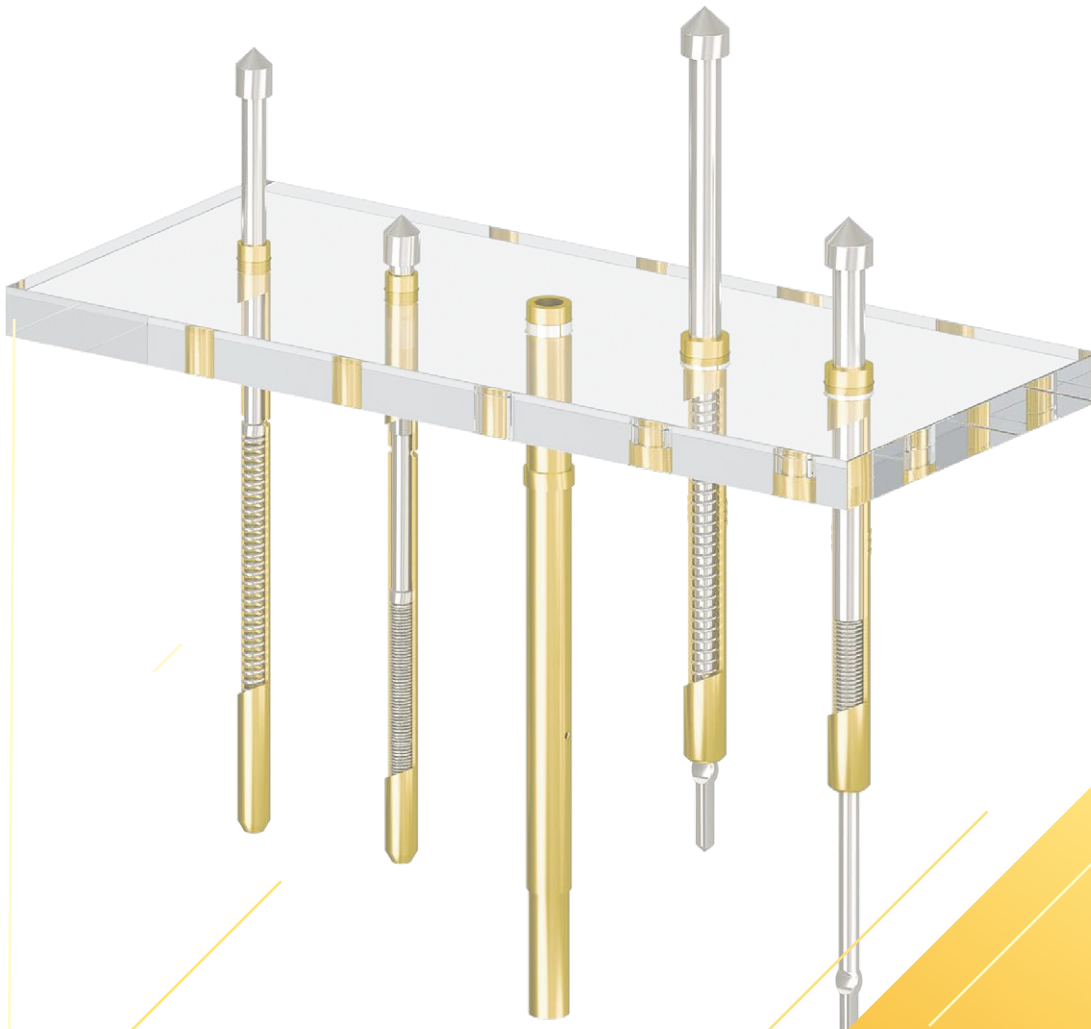
Hazardous Substance Process Management

## Quality Assurance





C.C.P. CONTACT PROBES



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+82-70-75432531

**Hanoi**  
+843-88051121

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