

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

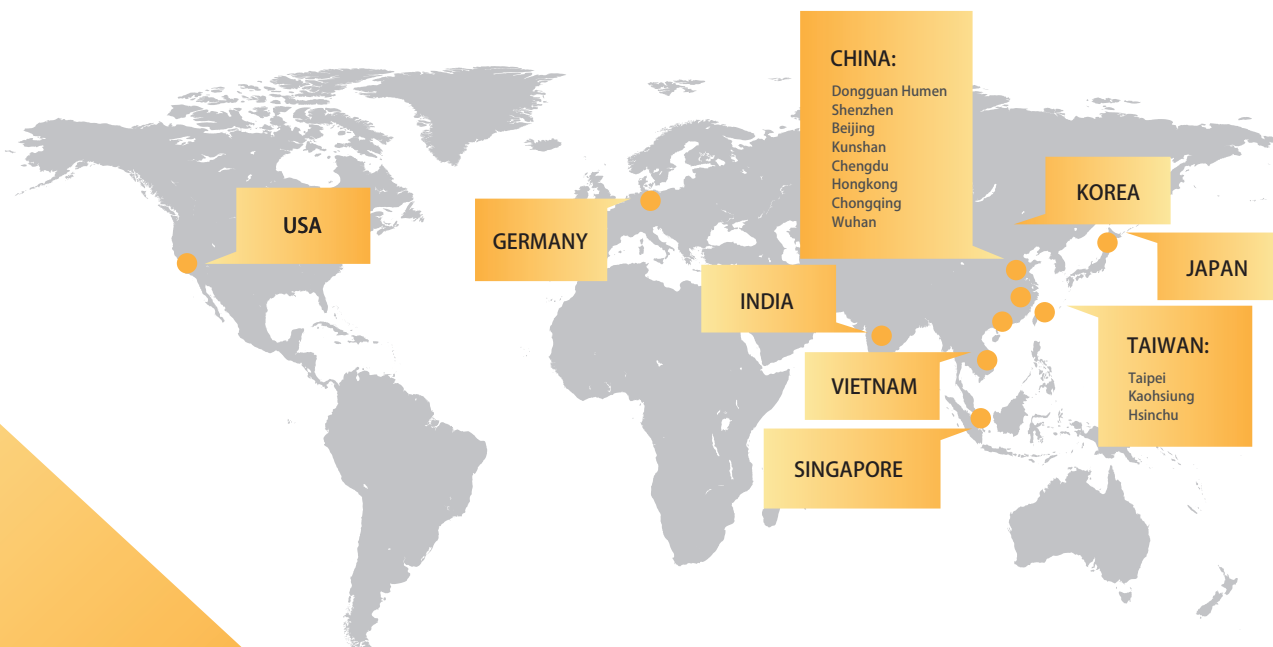
FOXCONN

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



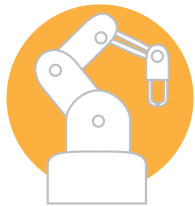
Tuition Subsidy
for Employee's Children

ABOUT US

Advantages



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

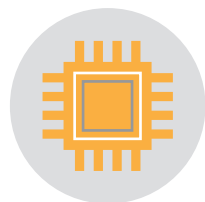


Turning and Plating Factory



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

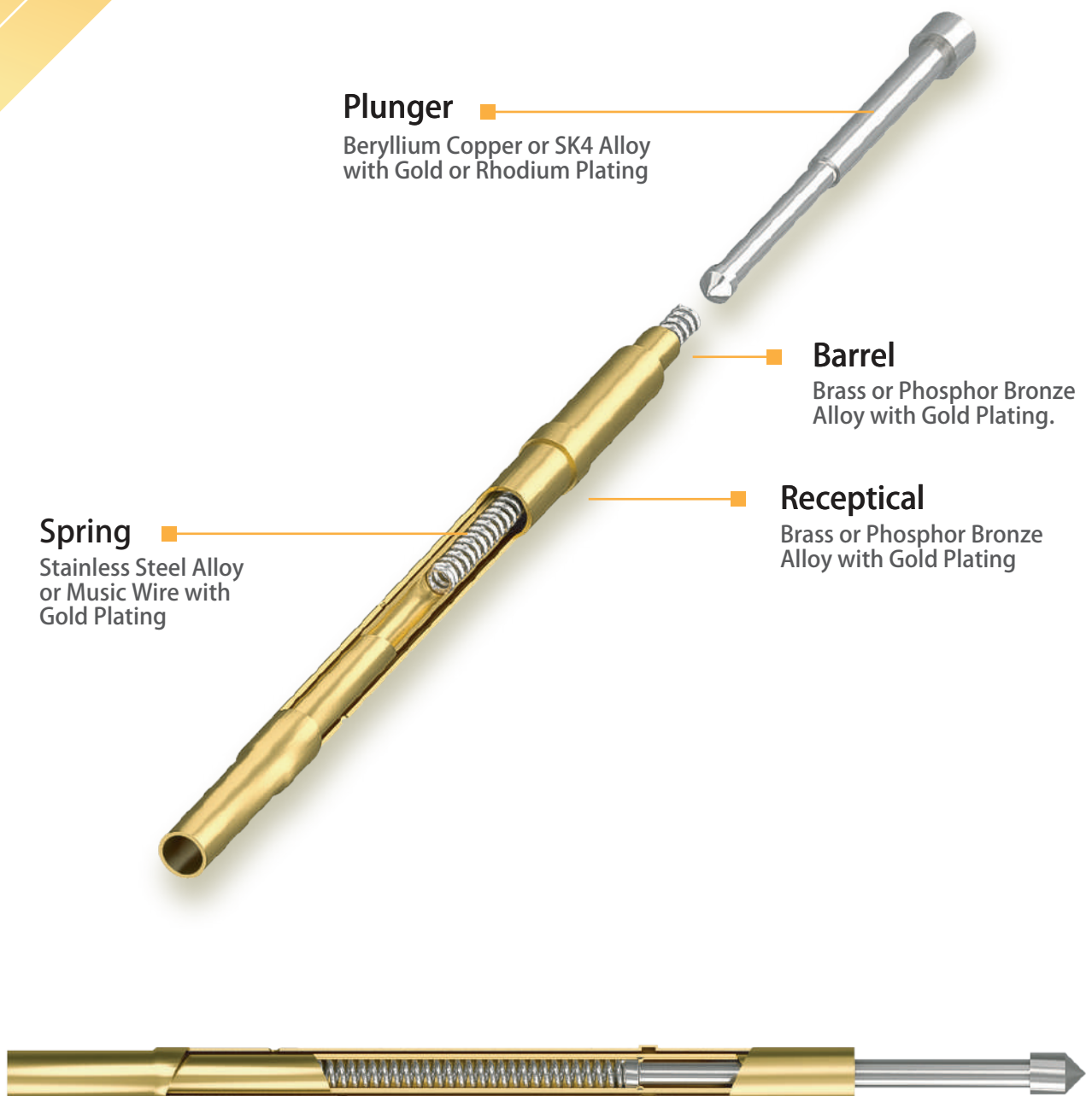


High Current Connector Solutions



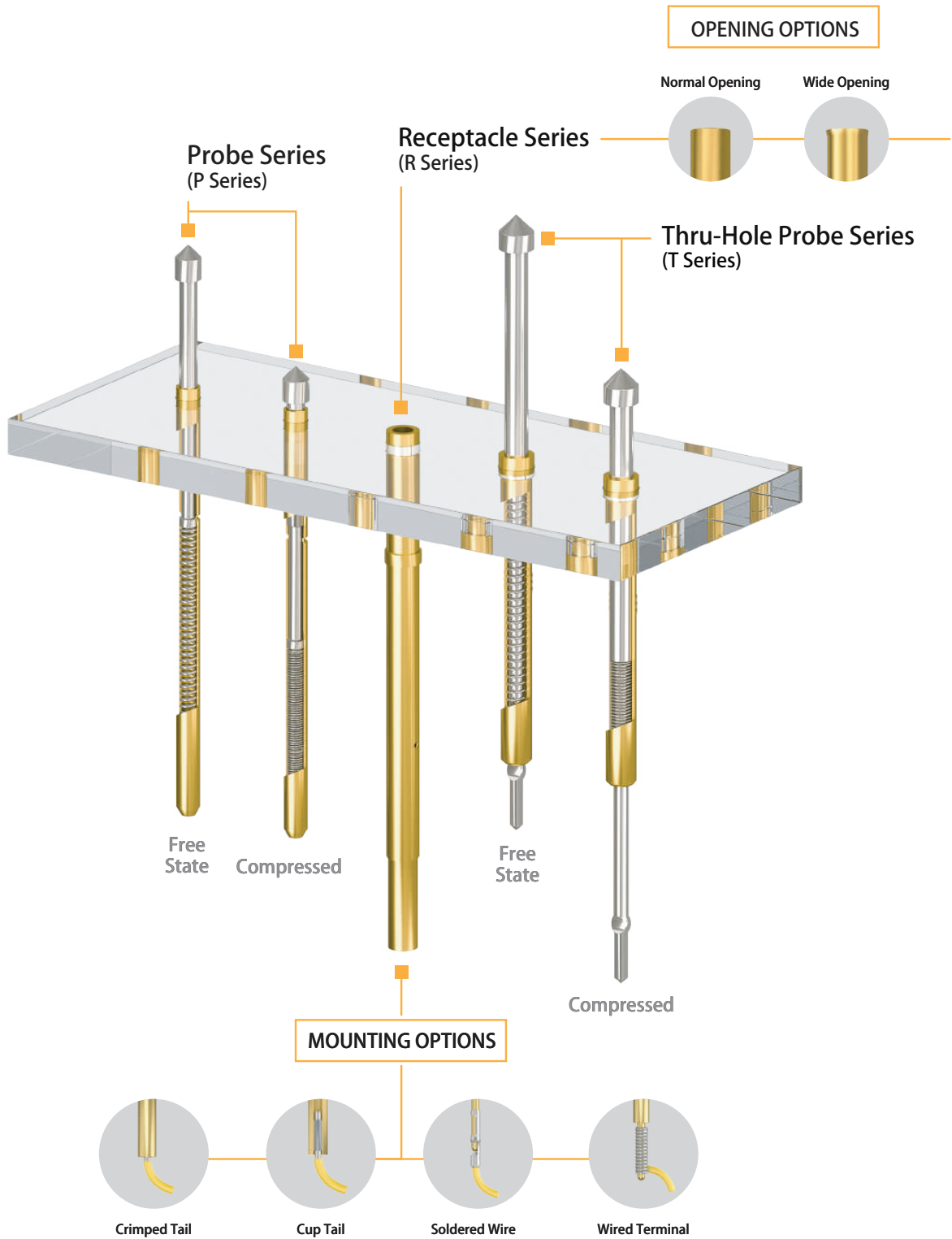
Industrial Connector Solutions

STRUCTURE



CCP PROBE SERIES

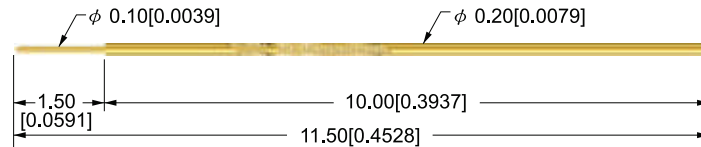
P Series R Series T Series



P-020

PROBES SERIES

Dimensions In Millimeter (inch)



Plunger
SK4 (High Carbon Steel)
with Rhodium Plated or Gold Plated

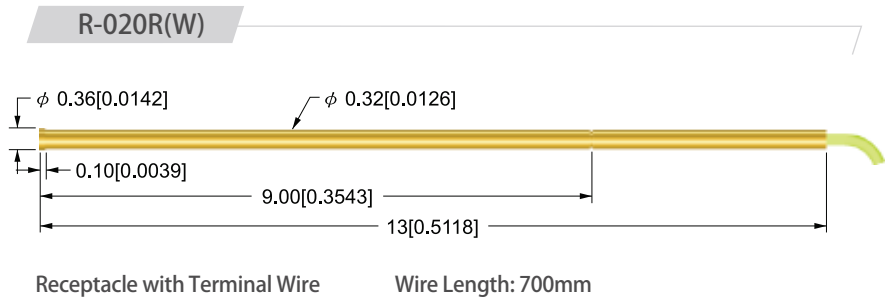
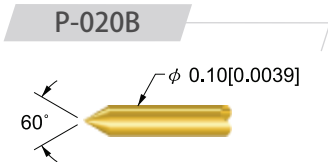
Barrel
Phosphor Bronze with Gold Plated

Spring
Music Wire with Gold Plated

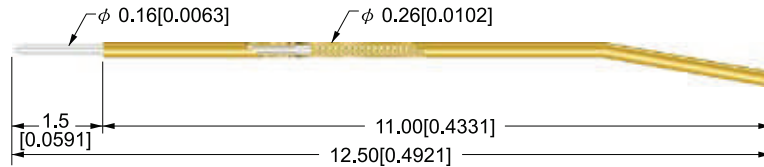
Receptacle
Phosphor Bronze with Gold Plated

Specification	
Min. Center	0.45mm (0.0177)
Full Stroke	1.5mm (0.0059)
Full Stroke Spring Force ($\pm 20\%$)	15g (0.53oz)
2/3 Stroke Spring Force ($\pm 20\%$)	10g (0.35oz)
Current Rating	0.3A
Contact Resistance	260m Ω
Recommended Hole Size	0.33mm (0.013)

*Specification Subject to change without notice



Dimensions In Millimeter (inch)



Plunger
SK4 (High Carbon Steel)
with Rhodium Plated or Gold Plated

Barrel
Phosphor Bronze with Gold Plated

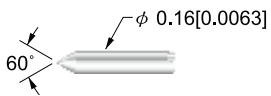
Spring
Music Wire with Gold Plated

Receptacle
Phosphor Bronze with Gold Plated

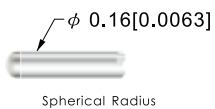
Specification	
Min. Center	0.50mm (0.00197)
Full Stroke	1.5mm (0.059)
Full Stroke Spring Force (±20%)	20g (0.70oz)
2/3 Stroke Spring Force (±20%)	15g (0.53oz)
Current Rating	0.3A
Contact Resistance	220mΩ
Recommended Hole Size	0.368 - 0.38st (0.0145)-(0.0150)

*Specification Subject to change without notice

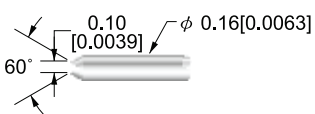
P-026B



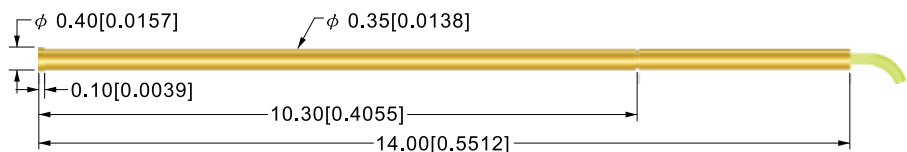
P-026D



P-026F



R-026R(W)



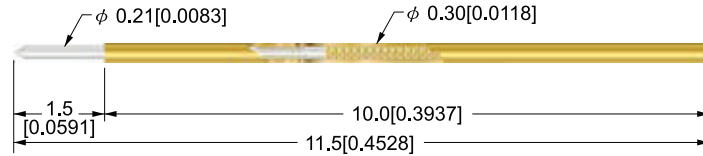
Receptacle with Terminal Wire

Wire Length: 700mm

P-030

PROBES SERIES

Dimensions In Millimeter (inch)



Plunger
SK4 (High Carbon Steel)
with Rhodium Plated or Gold Plated

Barrel
Phosphor Bronze with Gold Plated

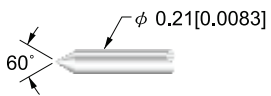
Spring
Music Wire with Gold Plated

Receptacle
Phosphor Bronze with Gold Plated

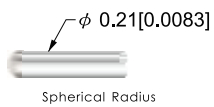
Specification	
Min. Center	0.65mm (0.0256)
Full Stroke	1.5mm (0.059)
Full Stroke Spring Force ($\pm 20\%$)	50g (1.76oz)
2/3 Stroke Spring Force ($\pm 20\%$)	40g (1.41oz)
Current Rating	0.5A
Contact Resistance	200m Ω
Recommended Hole Size	0.4064mm (0.0160)~0.45mm (0.0177)

*Specification Subject to change without notice

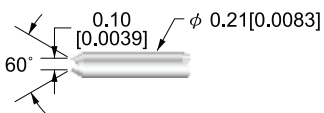
P-030B



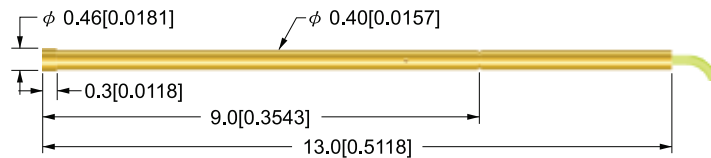
P-030D



P-030F



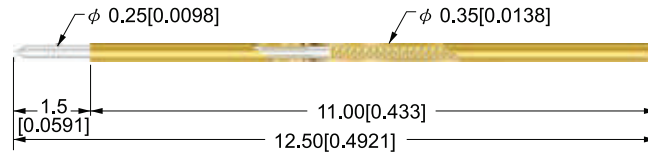
R-030R(W)



Receptacle with Terminal Wire

Wire Length: 700mm

Dimensions In Millimeter (inch)



Plunger

SK4 (High Carbon Steel)
with Rhodium Plated or Gold Plated

Barrel

Phosphor Bronze with Gold Plated

Spring

Music Wire with Gold Plated

Receptacle

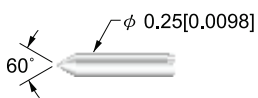
Phosphor Bronze with Gold Plated

Specification

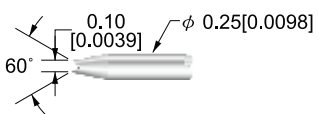
Min. Center	0.70mm (0.00197)
Full Stroke	1.5mm (0.059)
Full Stroke Spring Force (±20%)	40g (0.70oz)
2/3 Stroke Spring Force (±20%)	30g (0.53oz)
Current Rating	0.5A
Contact Resistance	130mΩ
Recommended Hole Size	0.45mm (0.0177)~0.47 (0.0185)

*Specification Subject to change without notice

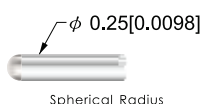
P-035B



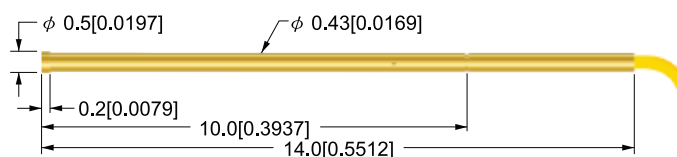
P-035F



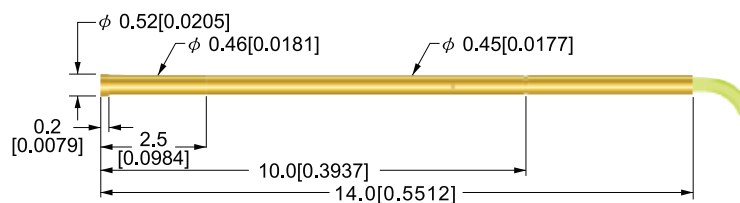
P-035D



R-035R(W)



R-035R1(C)(W)



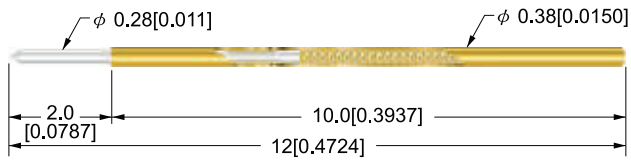
Receptacle with Terminal Wire

Wire Length: 700mm

P-038

PROBES SERIES

Dimensions In Millimeter (inch)



Plunger

SK4 (High Carbon Steel)
with Rhodium Plated or Gold Plated

Barrel

Phosphor Bronze with Gold Plated

Spring

Music Wire with Gold Plated

Receptacle

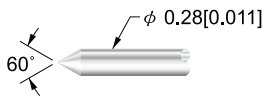
Phosphor Bronze with Gold Plated

Specification

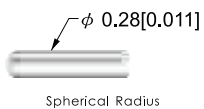
Min. Center	0.8mm (0.0315)
Full Stroke	2.0mm (0.0787)
Full Stroke Spring Force (± 20%)	40g (1.41oz)
2/3 Stroke Spring Force (± 20%)	30g (1.06oz)
Current Rating	0.5A
Contact Resistance	180mΩ
Recommended Hole Size	0.52mm (0.0204)~0.57mm (0.0224)

*Specification Subject to change without notice

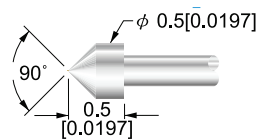
P-038BS



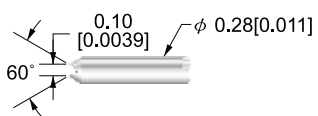
P-038DS



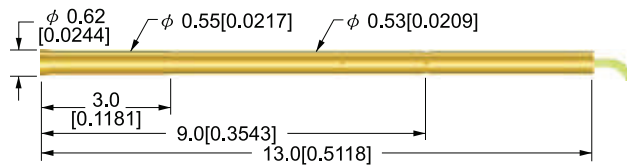
P-038ES



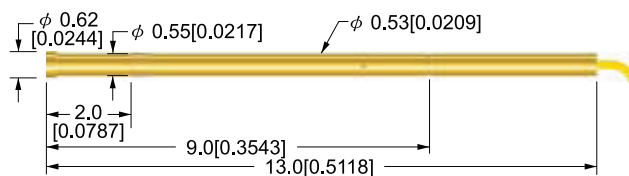
P-038FS



R-038VS(W)



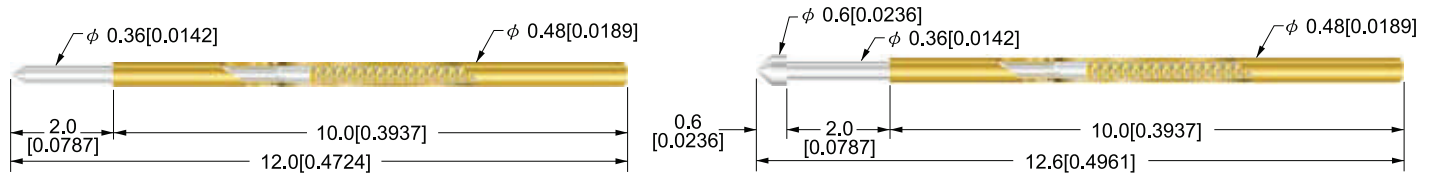
R-038R1(C)(W)



Receptacle with Terminal Wire

Wire Length: 700mm

Dimensions In Millimeter (inch)



Plunger

SK4 (High Carbon Steel)
with Rhodium Plated or Gold Plated

Barrel

Phosphor Bronze with Gold Plated

Spring

Music Wire with Gold Plated

Receptacle

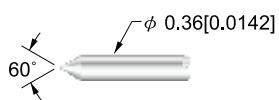
Phosphor Bronze with Gold Plated

Specification

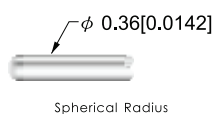
Min. Center	0.90mm (0.0354)
Full Stroke	2.0mm (0.0787)
Full Stroke Spring Force ($\pm 20\%$)	60g (2.12oz)
2/3 Stroke Spring Force ($\pm 20\%$)	45g (1.59oz)
Current Rating	1A
Contact Resistance	150m Ω
Recommended Hole Size	0.60mm (0.0236)~0.65mm (0.0256)

*Specification Subject to change without notice

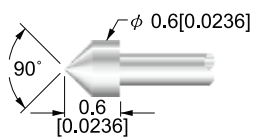
P-048BS



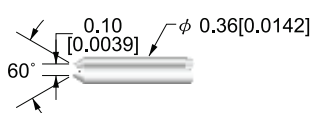
P-048DS



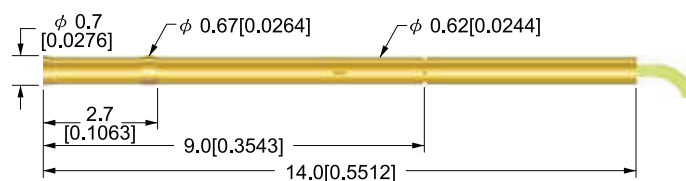
P-048ES



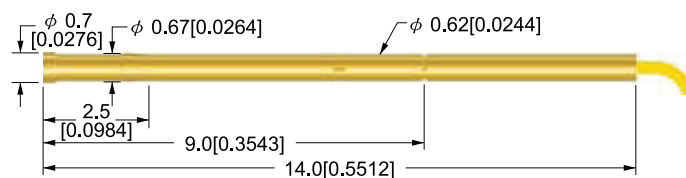
P-048FS



R-048VS(W)



R-048R(C)(W)



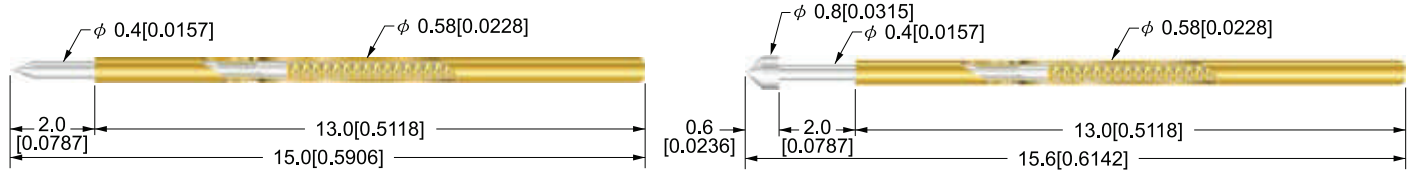
Receptacle with Terminal Wire

Wire Length: 700mm

P-058

PROBES SERIES

Dimensions In Millimeter (inch)



Plunger

SK4 (High Carbon Steel)
with Rhodium Plated or Gold Plated

Barrel

Phosphor Bronze with Gold Plated

Spring

Music Wire with Gold Plated

Receptacle

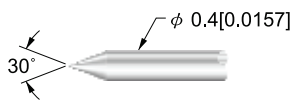
Phosphor Bronze with Gold Plated

Specification

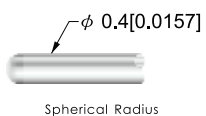
Min. Center	1.0mm (0.0394)
Full Stroke	2.0mm (0.0787)
Full Stroke Spring Force ($\pm 20\%$)	60g (2.12oz)
2/3 Stroke Spring Force ($\pm 20\%$)	45g (1.59oz)
Current Rating	1A
Contact Resistance	120m Ω
Recommended Hole Size	0.70mm (0.0275)~0.76mm (0.0299)

*Specification Subject to change without notice

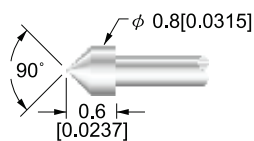
P-058B



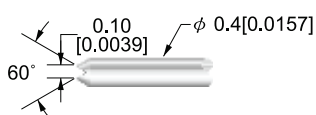
P-058D



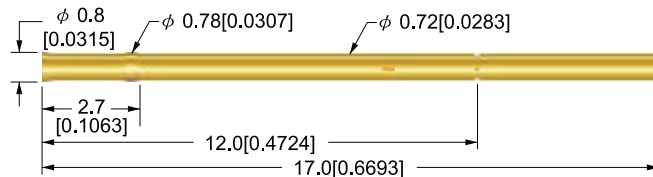
P-058E



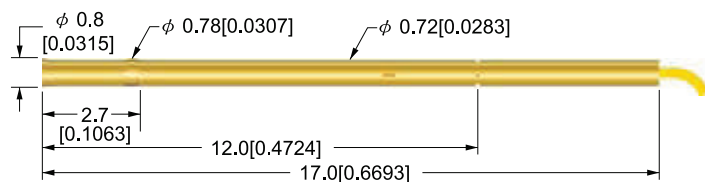
P-058F3



R-058VC



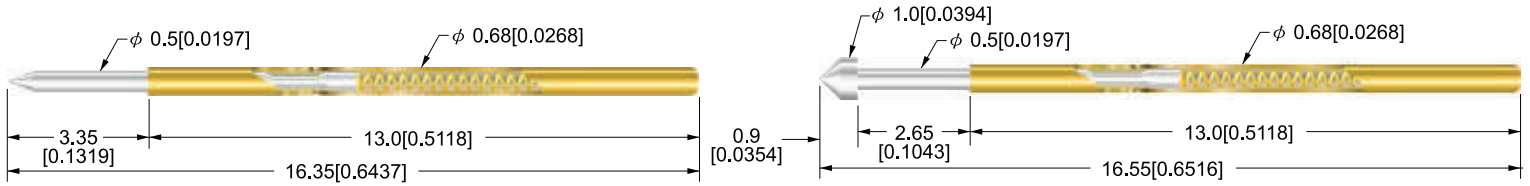
R-058V(W)



Receptacle with Terminal Wire

Wire Length: 700mm

Dimensions In Millimeter (inch)



Plunger

Beryllium Copper or SK4
with Rhodium Plated or Gold Plated

Barrel

Phosphor Bronze with Gold Plated

Spring

Music Wire with Gold Plated

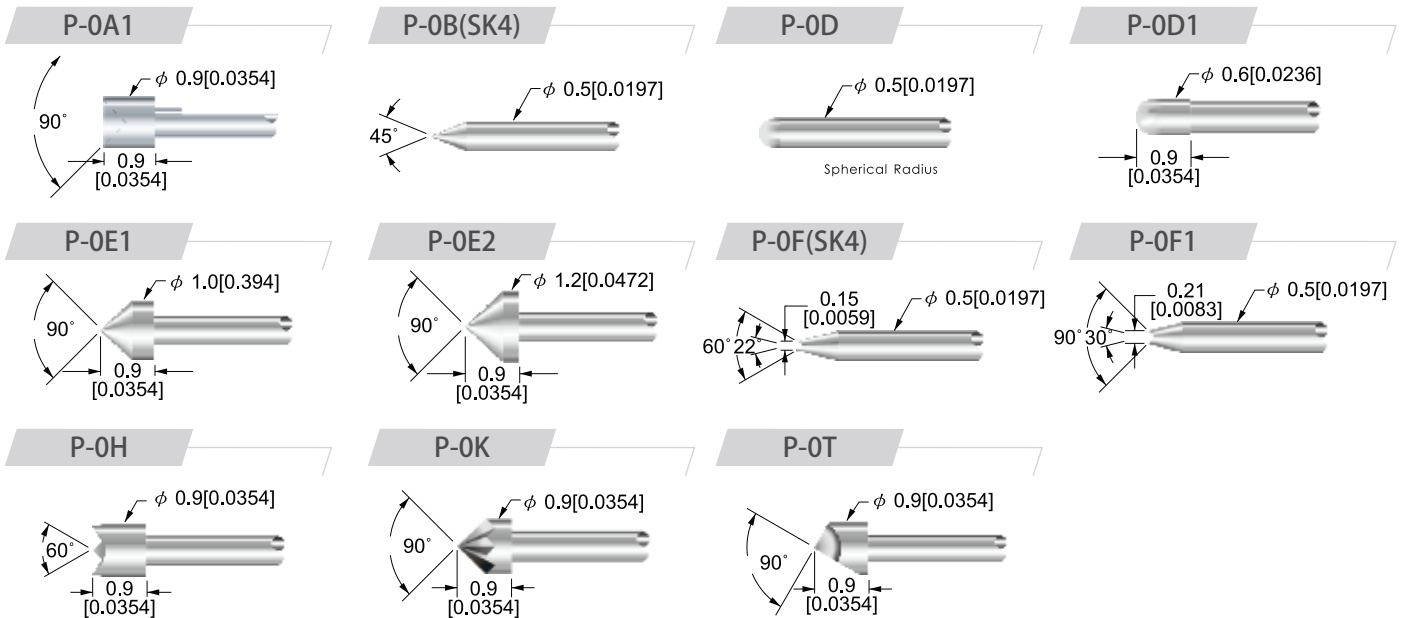
Receptacle

Phosphor Bronze with Gold Plated

Specification

Min. Center	1.27mm (0.0500)
Full Stroke	3.35mm (0.1319) / 2.65mm (0.1043)
Full Stroke Spring Force (±20%)	100g (3.53oz)
2/3 Stroke Spring Force (±20%)	65g (2.29oz)
Current Rating	1.5A
Contact Resistance	70mΩ
Recommended Hole Size	0.90mm (0.0354)~0.95mm (0.0374)

*Specification Subject to change without notice

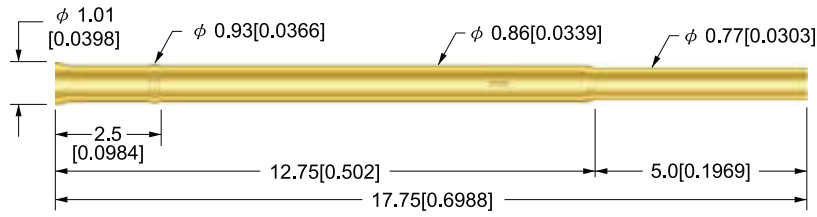


R-0

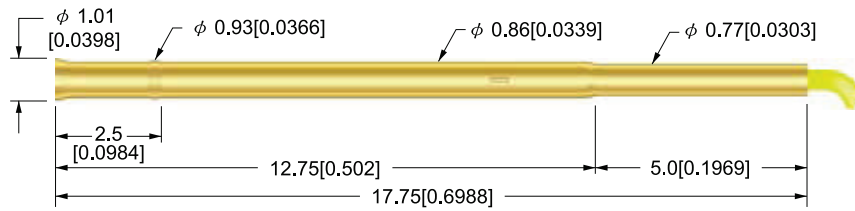
RECEPTACLES SERIES

Dimensions In Millimeter (inch)

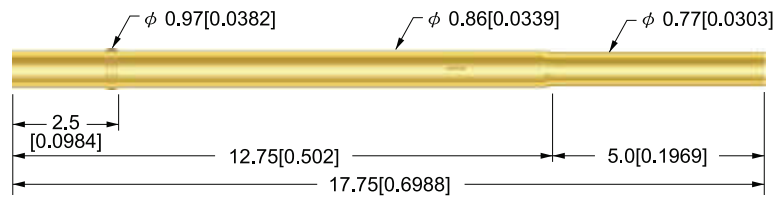
R-0VC



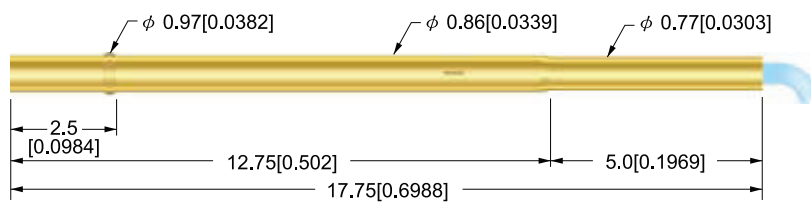
R-0V(W)



R-0WC



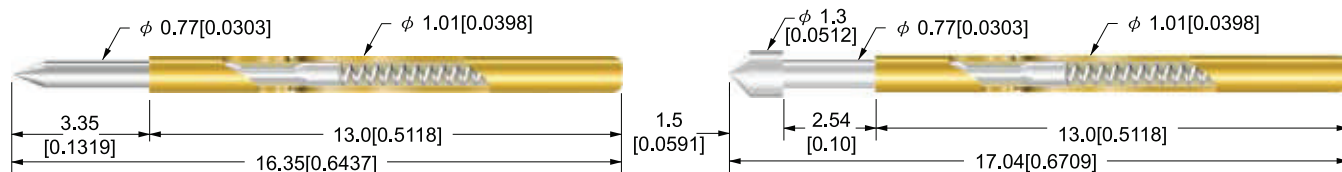
R-0W(W)



Receptacle with Terminal Wire

Wire Length: 700mm

Dimensions In Millimeter (inch)



Plunger

Beryllium Copper or SK4
with Rhodium Plated or Gold Plated

Barrel

Phosphor Bronze with Gold Plated

Spring

Stainless Steel

Receptacle

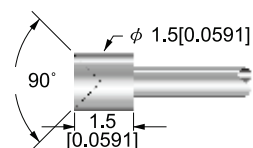
Phosphor Bronze or Brass
with Gold Plated

Specification

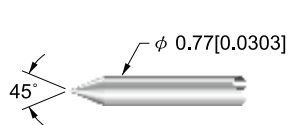
Min. Center	1.90mm (0.0748)
Full Stroke	3.35mm (0.1319) / 2.54mm (0.1000)
Full Stroke Spring Force (±20%)	128g (4.51oz)
2/3 Stroke Spring Force (±20%)	90g (3.17oz)
Current Rating	3A
Contact Resistance	30mΩ
Recommended Hole Size	1.35mm (0.0531)~1.40mm (0.0551)

*Specification Subject to change without notice

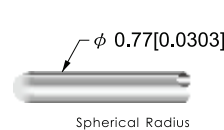
P-1A1



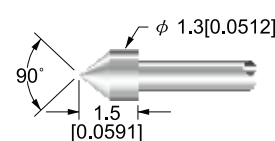
P-1B(SK4)



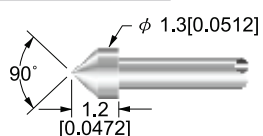
P-1D



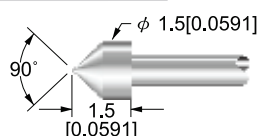
P-1E1



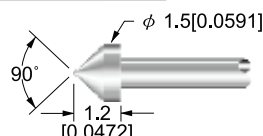
P-1E1(S)



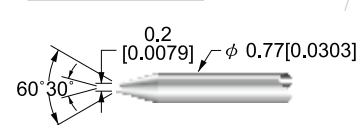
P-1E2



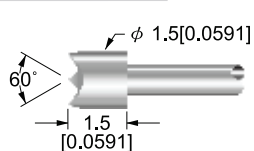
P-1E2(S)



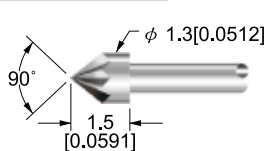
P-1F(SK4)



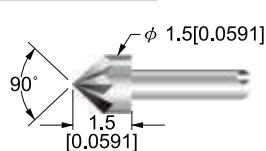
P-1H



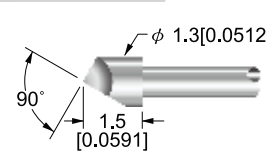
P-1K



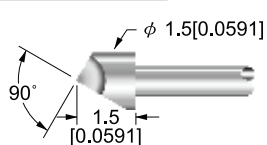
P-1K1



P-1T



P-1T1

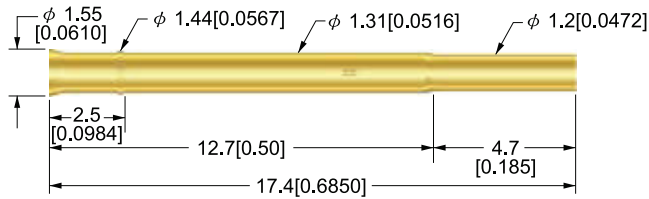


R-1

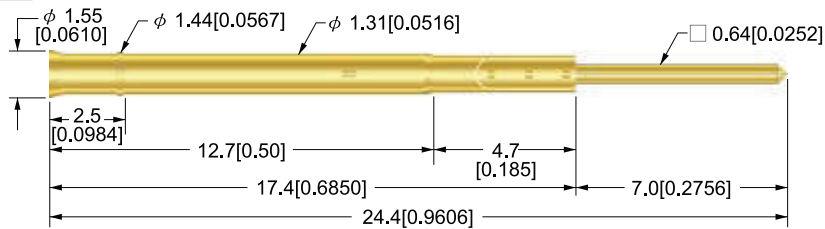
RECEPTACLES SERIES

Dimensions In Millimeter (inch)

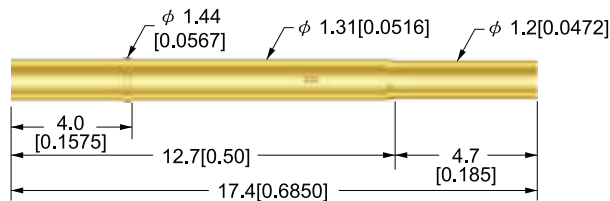
R-1VC



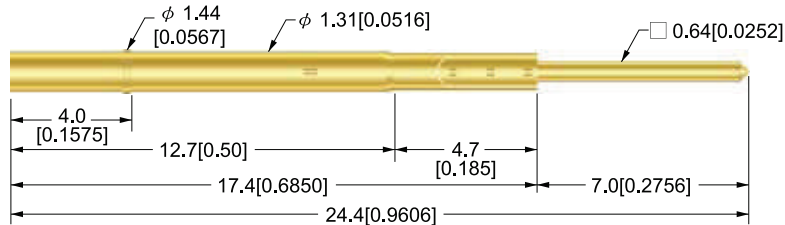
R-1V-2



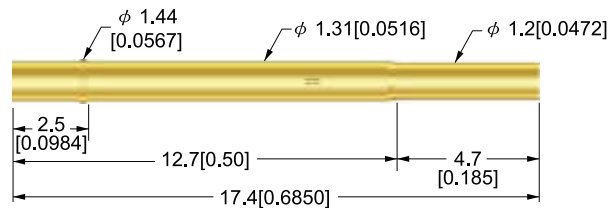
R-1W2C



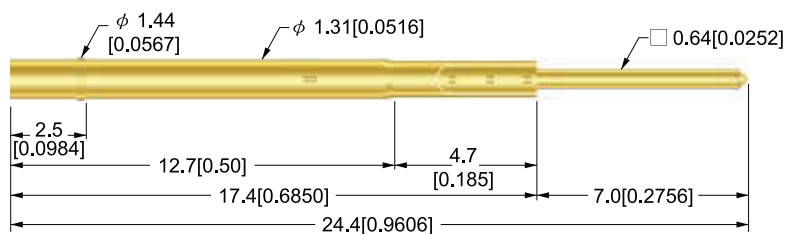
R-1W2-2



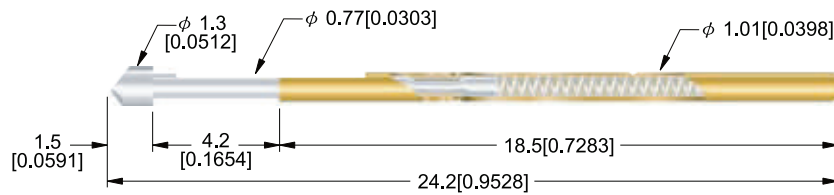
R-1W1C



R-1W1-2



Dimensions In Millimeter (inch)



Plunger

Beryllium Copper or SK4 with Rhodium Plated or Gold Plated

Barrel

Phosphor Bronze with Gold Plated

Spring

Stainless Steel

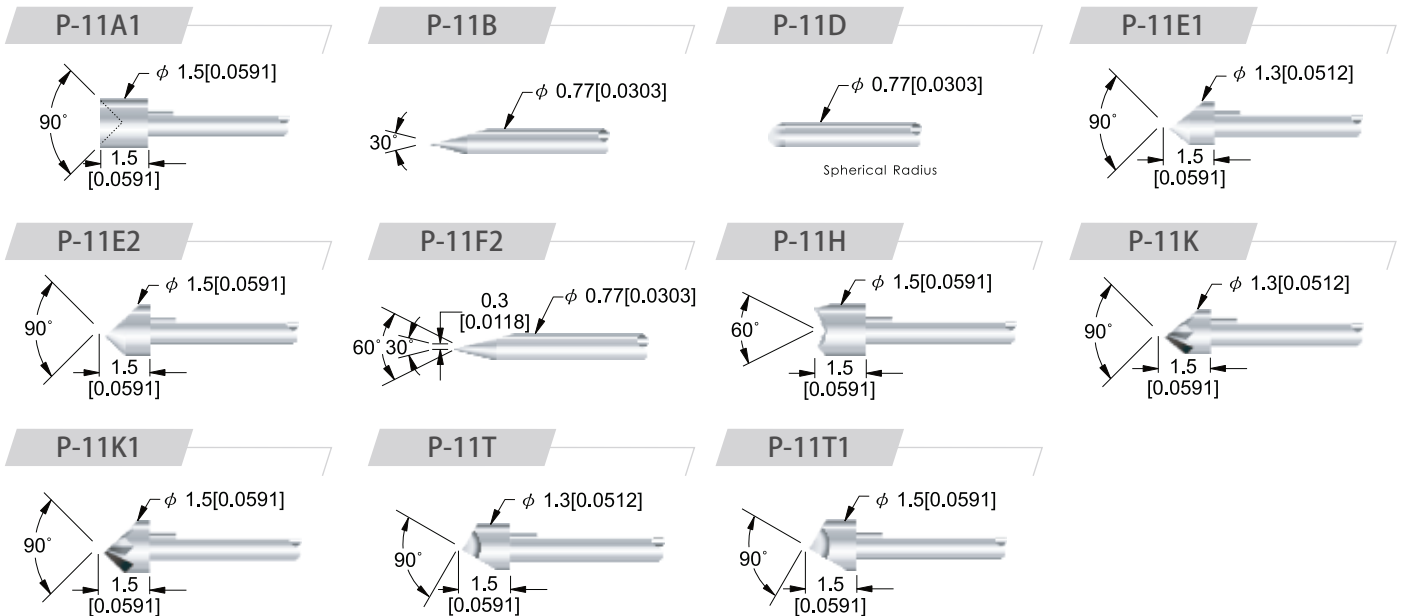
Receptacle

Phosphor Bronze or Brass with Gold Plated

Specification

Specification	
Min. Center	1.90mm (0.0749)
Full Stroke	4.20mm (0.1654)
Full Stroke Spring Force (±20%)	150g (5.29oz)
2/3 Stroke Spring Force (±20%)	80g (2.82oz)
Current Rating	3A
Contact Resistance	30mΩ
Recommended Hole Size	1.35mm (0.0531)~1.40mm (0.0551)

*Specification Subject to change without notice

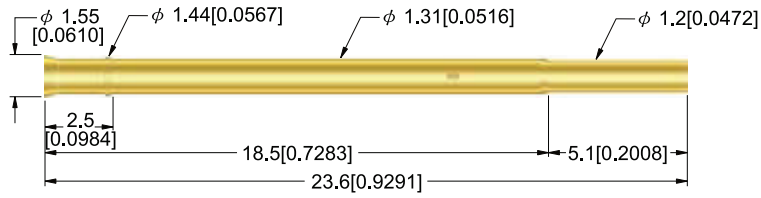


R-11

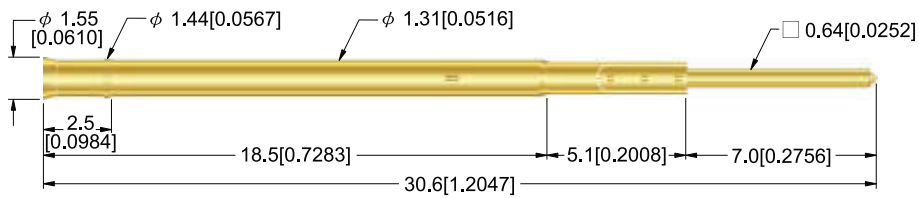
RECEPTACLES SERIES

Dimensions In Millimeter (inch)

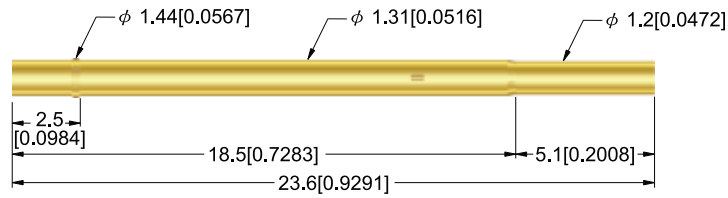
R-11VC



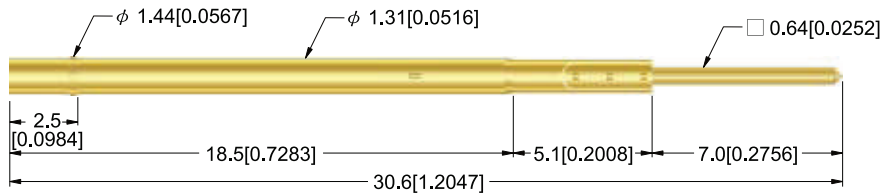
R-11V-2



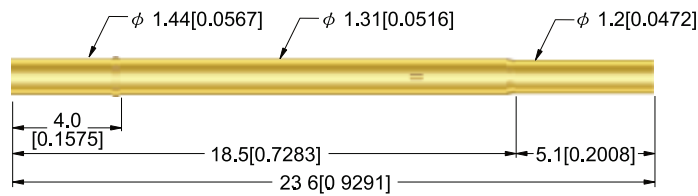
R-11W1-2



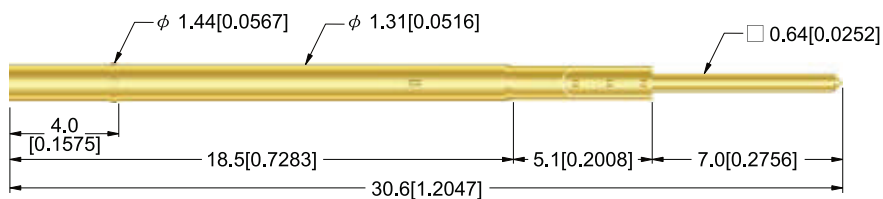
R-11W1-2



R-11W2C



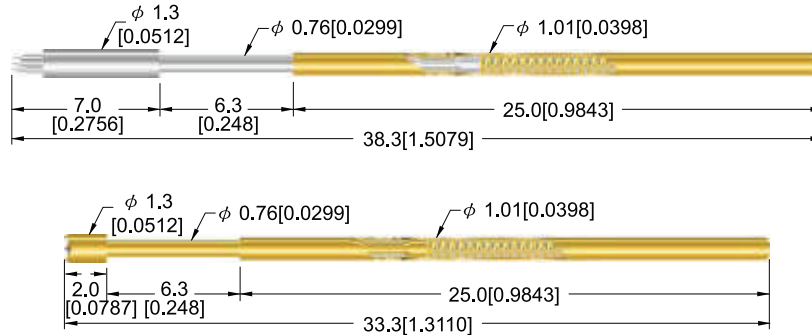
R-11W2-2



Receptacle with Terminal Wire

Wire Length: 700mm

Dimensions In Millimeter (inch)



Plunger

Beryllium Copper or SK4
with Gold Plated or Nickel Plated

Barrel

Phosphor Bronze with Gold Plated

Spring

Music Wire with Gold Plated

Receptacle

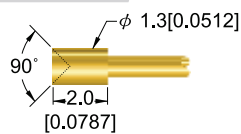
Phosphor Bronze or Brass
with Gold Plated

Specification

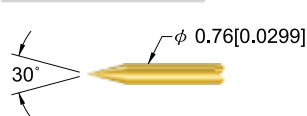
Min. Center	1.90mm (0.0748)
Full Stroke	6.30mm (0.2480)
Full Stroke Spring Force ($\pm 20\%$)	250g (8.82oz)
2/3 Stroke Spring Force ($\pm 20\%$)	170g (6.0oz)
Current Rating	3A
Contact Resistance	30m Ω
Recommended Hole Size	1.35mm (0.0531)~1.40mm (0.0551)

*Specification Subject to change without notice

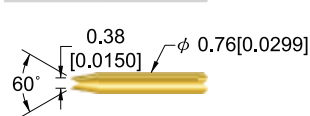
P-111A



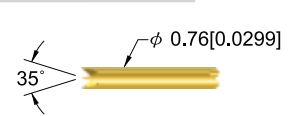
P-111B(SK4)



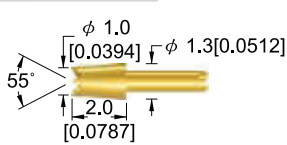
P-111F(SK4)



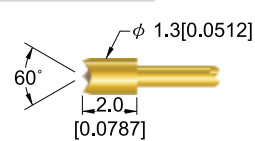
P-111F1(SK4)



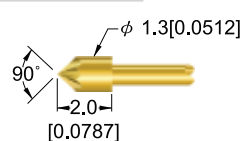
P-111F2



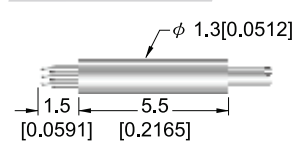
P-111H



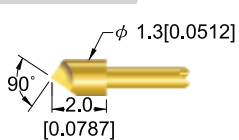
P-111K



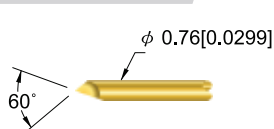
P-111M3(SK4)



P-111T1



P-111T2(SK4)

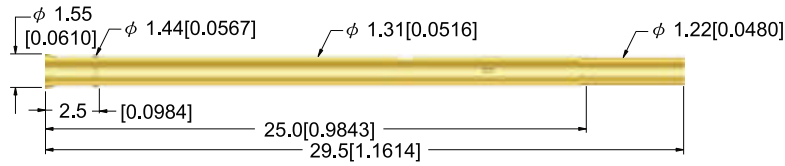


R-111

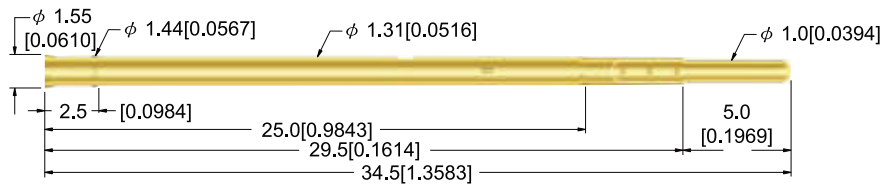
RECEPTACLES SERIES

Dimensions In Millimeter (inch)

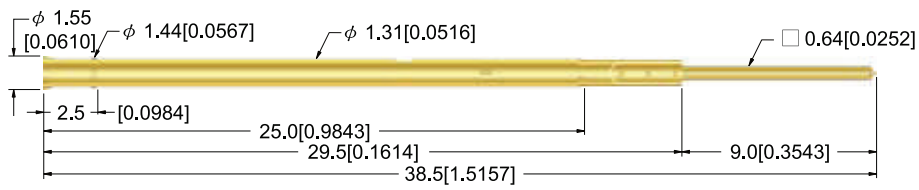
R-111VC



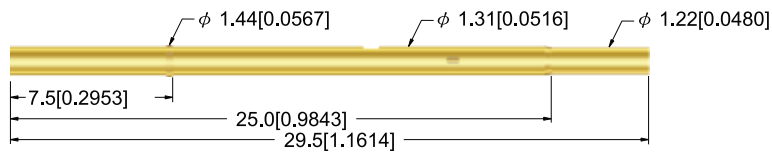
R-111VT



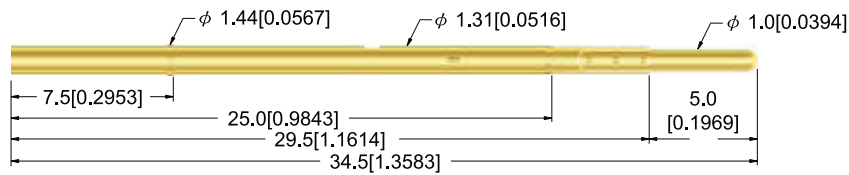
R-111V-1



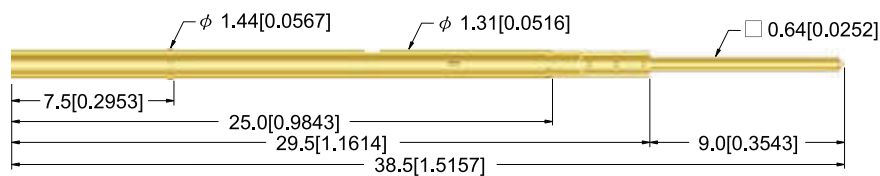
R-111WC



R-111WT



R-111W-1

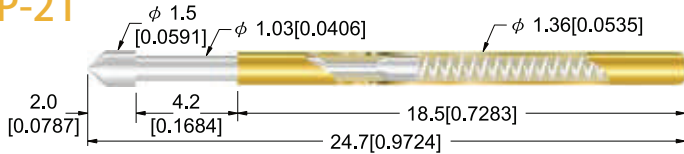


Receptacle with Terminal Wire

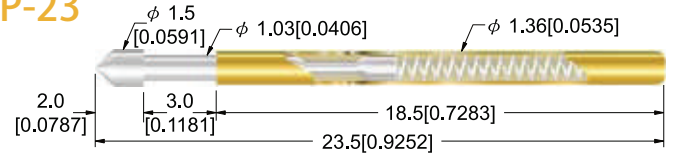
Wire Length: 700mm

Dimensions In Millimeter (inch)

P-21



P-23



Plunger

Beryllium Copper or SK4
with Rhodium Plated or Gold Plated

Barrel

Phosphor Bronze or Brass
with Gold Plated

Spring

Stainless Steel

Receptacle

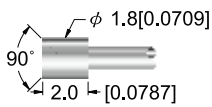
Phosphor Bronze or Brass
with Gold Plated

Specification

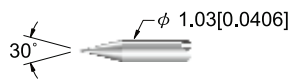
Min. Center	2.54mm (0.0100)
Full Stroke	21# 4.2mm (0.1654) / 23# 3.0mm (0.1181)
Full Stroke Spring Force (±20%)	150g (5.29oz)
2/3 Stroke Spring Force (±20%)	115g (4.06oz)
Current Rating	3A
Contact Resistance	30mΩ
Recommended Hole Size	1.70mm (0.0669)~1.75mm (0.0689)

*Specification Subject to change without notice

P-21A1



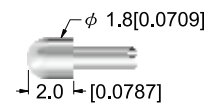
P-21B



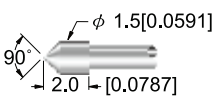
P-21D



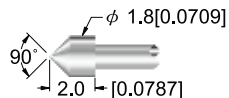
P-21D2



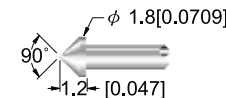
P-21E1



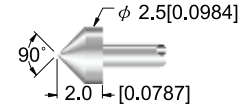
P-21E2



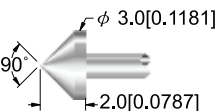
P-21E2(S)



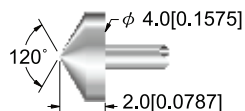
P-21E4



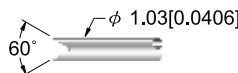
P-21E5



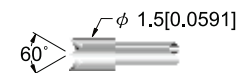
P-21E6



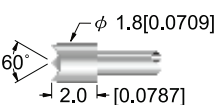
P-21F



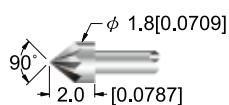
P-21F1



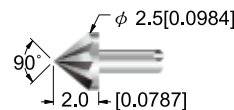
P-21H



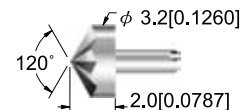
P-21K2



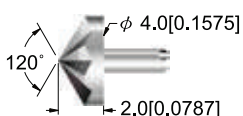
P-21K4



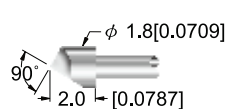
P-21K5



P-21K6



P-21T1

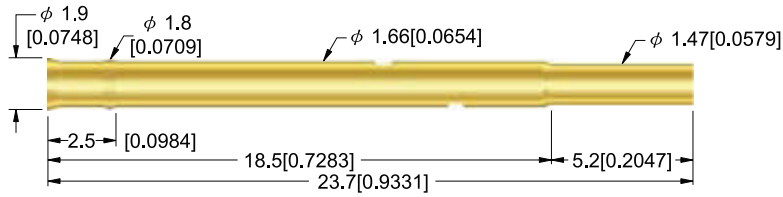


R-2

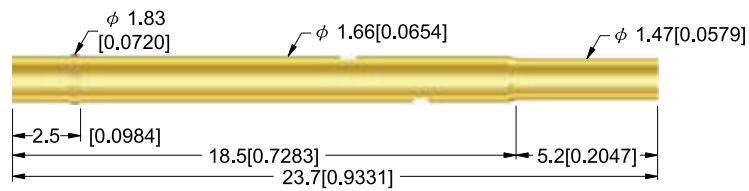
RECEPTACLES SERIES

Dimensions In Millimeter (inch)

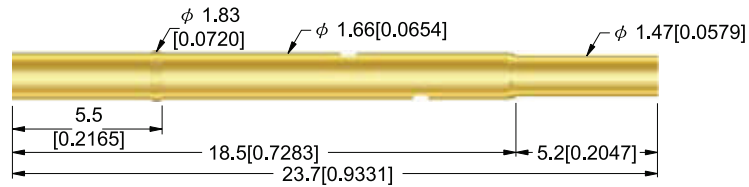
R-2VC



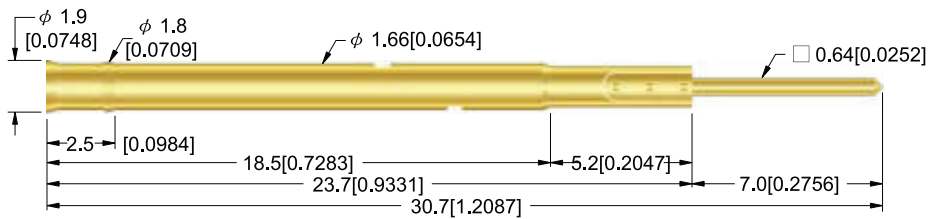
R-2W1C



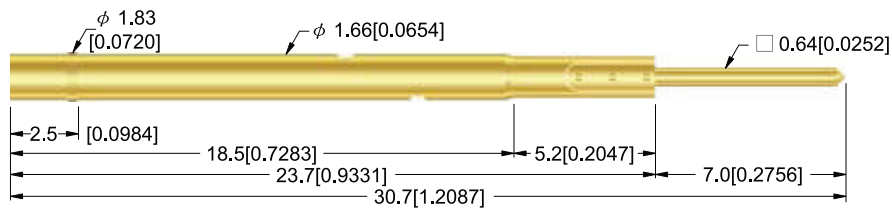
R-2W2C



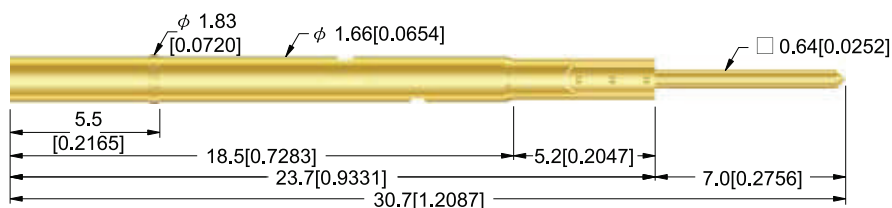
R-2V-2



R-2W1-2



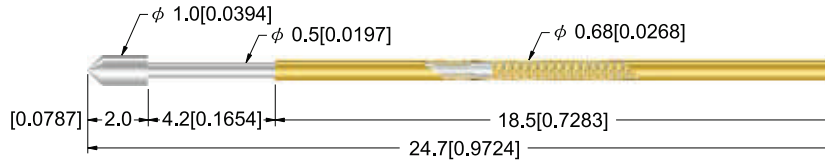
R-2W2-2



Receptacle with Terminal Wire

Wire Length: 700mm

Dimensions In Millimeter (inch)



Plunger

Beryllium Copper or SK4 with Rhodium Plated

Barrel

Phosphor Bronze with Gold Plated

Spring

Music Wire with Gold Plated

Receptacle

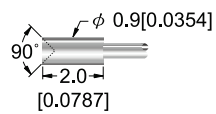
Phosphor Bronze or Brass with Gold Plated

Specification

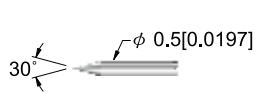
Min. Center	1.27mm (0.0500)
Full Stroke	4.20mm (0.1654)
Full Stroke Spring Force ($\pm 20\%$)	150g (5.29oz)
2/3 Stroke Spring Force ($\pm 20\%$)	100g (3.53oz)
Current Rating	3A
Contact Resistance	30m Ω
Recommended Hole Size	0.95mm (0.0374)

*Specification Subject to change without notice

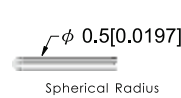
P-02A1



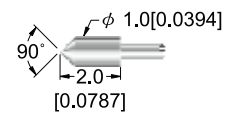
P-02B



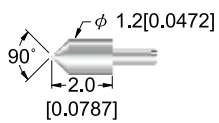
P-02D



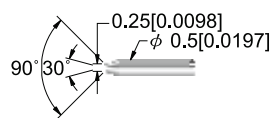
P-02E1



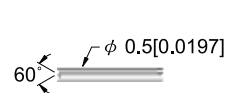
P-02E2



P-02F



P-02H

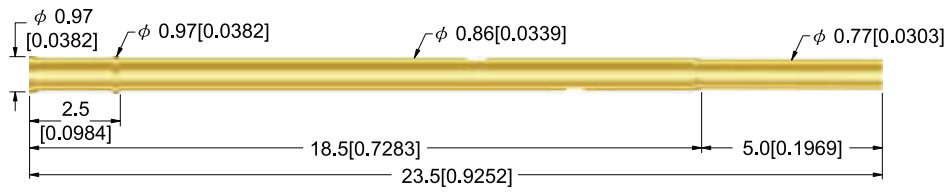


R-02

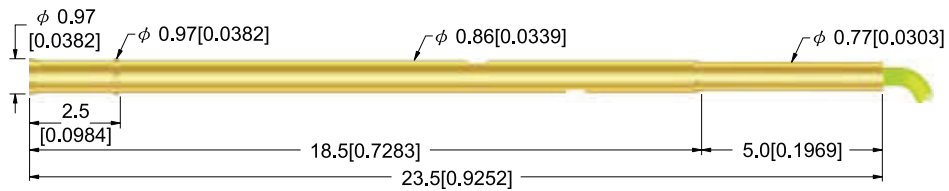
RECEPTACLES SERIES

Dimensions In Millimeter (inch)

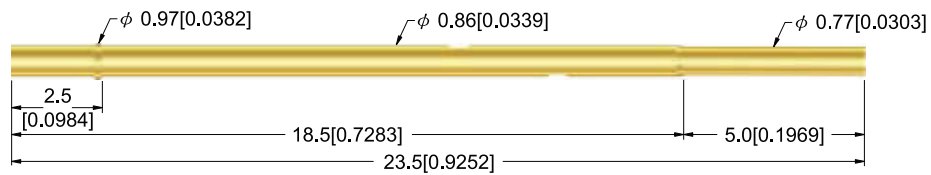
R-02VC



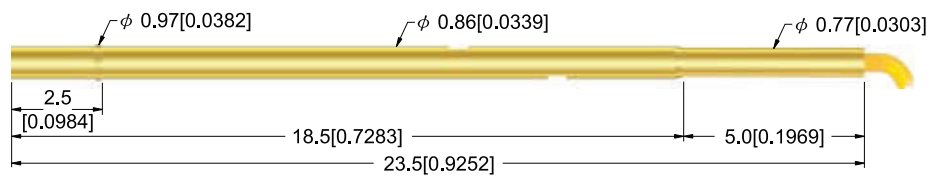
R-02V(W)



R-02WC



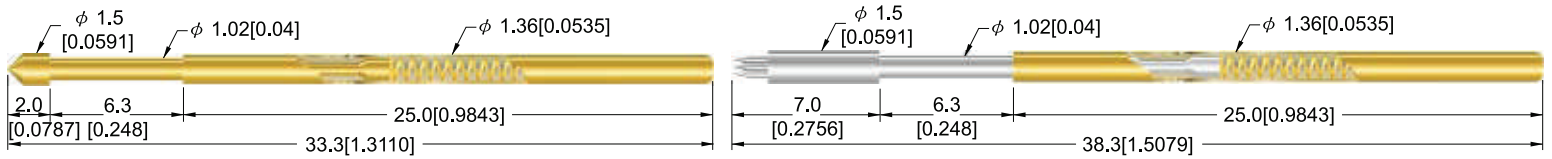
R-02W(W)



Receptacle with Terminal Wire

Wire Length: 700mm

Dimensions In Millimeter (inch)



Plunger

Beryllium Copper or SK4
with Gold Plated or Nickel Plated

Barrel

Phosphor Bronze with Gold Plated

Spring

Music Wire with Gold Plated

Receptacle

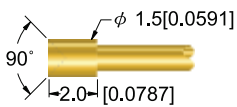
Phosphor Bronze with Gold Plated

Specification

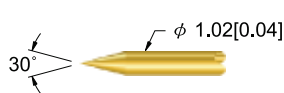
Min. Center	2.54mm (0.0100)
Full Stroke	6.30mm (0.2480)
Full Stroke Spring Force ($\pm 20\%$)	350g (12.34oz)
2/3 Stroke Spring Force ($\pm 20\%$)	230g (8.11oz)
Current Rating	3A
Contact Resistance	75m Ω
Recommended Hole Size	1.70mm (0.0669)~1.75mm (0.0689)

*Specification Subject to change without notice

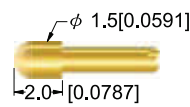
P-25A



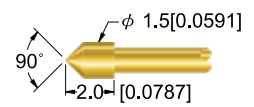
P-25B(SK)



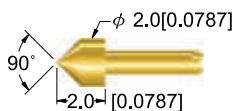
P-25D



P-25E



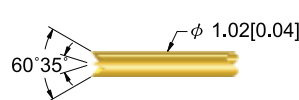
P-25E1



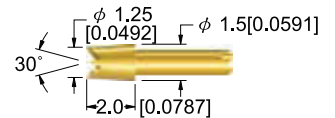
P-25F(SK4)



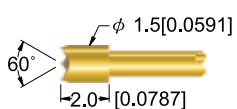
P-25F1(SK4)



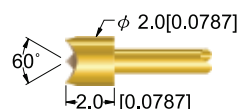
P-25F2



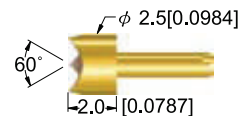
P-25H



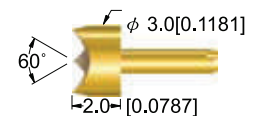
P-25H1



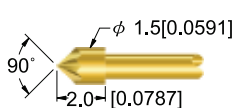
P-25H3



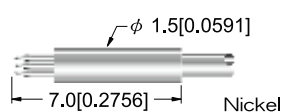
P-25H5



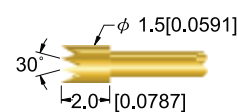
P-25K



P-25M3



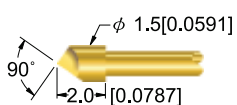
P-25Q1



P-25T1(SK4)



P-25T2



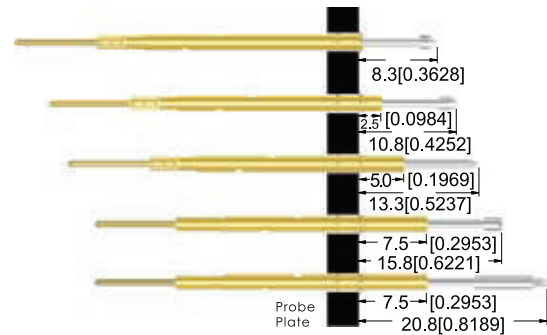
R-25

RECEPTACLES SERIES

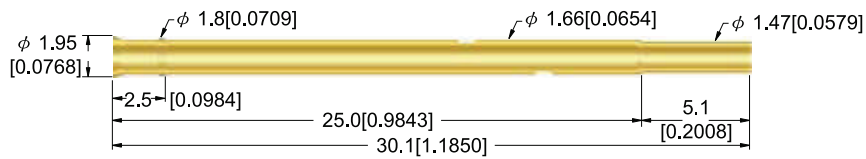
Dimensions In Millimeter (inch)

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.

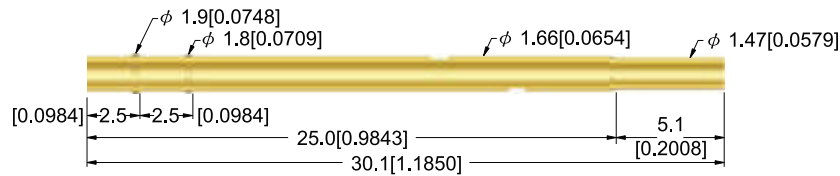
*Specification Subject to change without notice



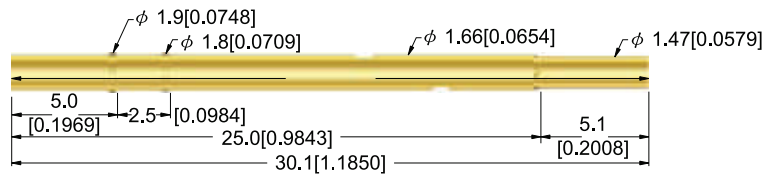
R-25W1C



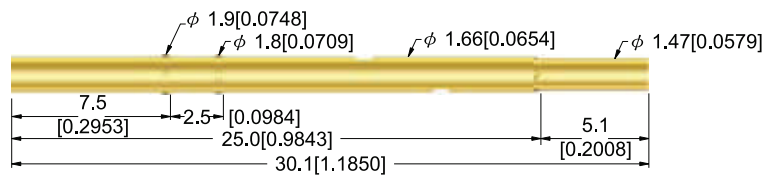
R-25W2C



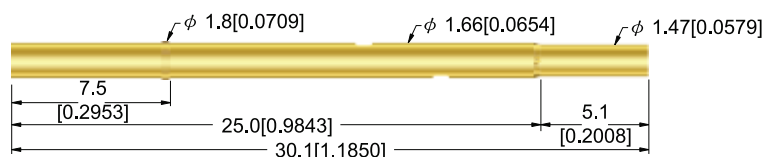
R-25W3C



R-25W4C

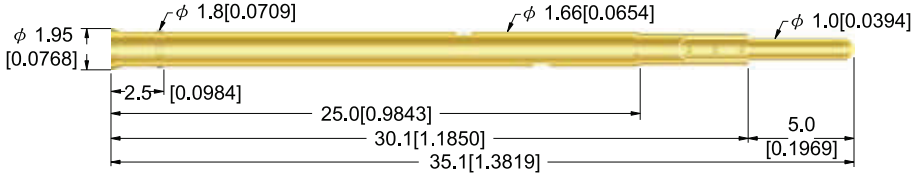


R-25W5C

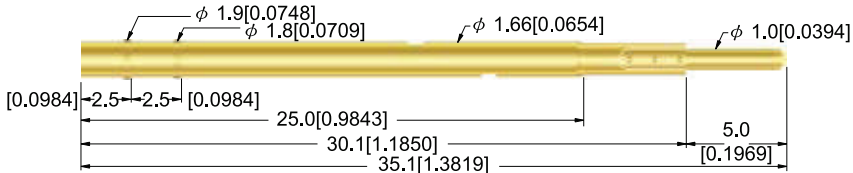


Dimensions In Millimeter (inch)

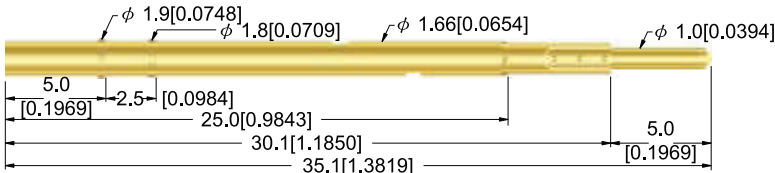
R-25W1T



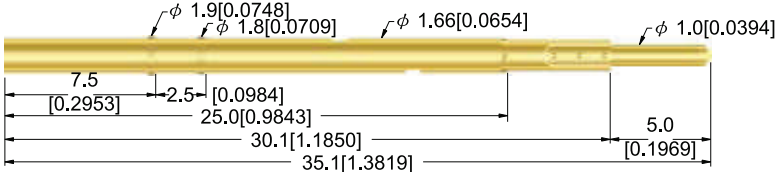
R-25W2T



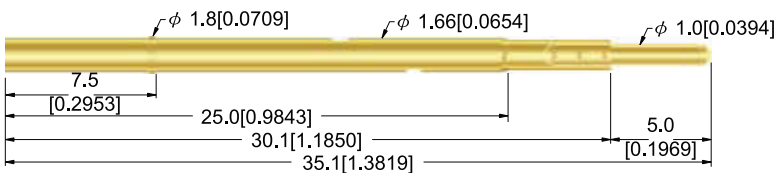
R-25W3T



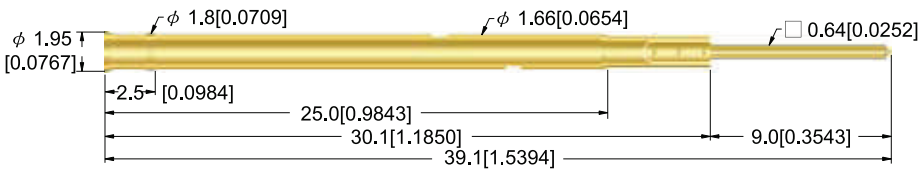
R-25W4T



R-25W5T



R-25W1W

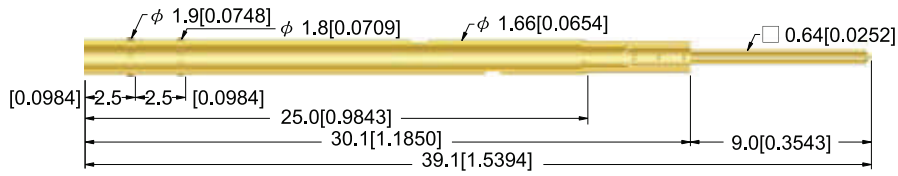


R-25

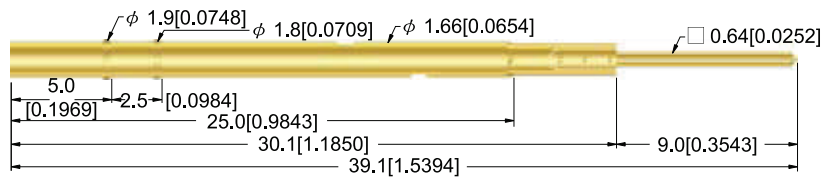
RECEPTACLES SERIES

Dimensions In Millimeter (inch)

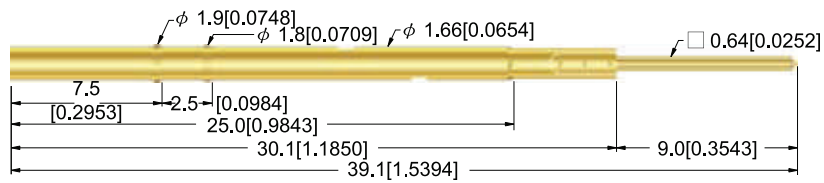
R-25W2W



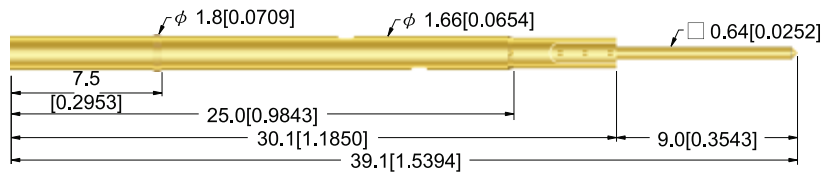
R-25W3W



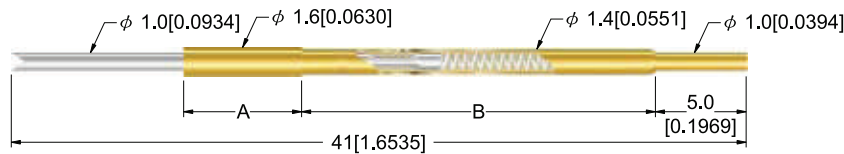
R-25W4W



R-25W5W



Dimensions In Millimeter (inch)



Specification

Min. Center	2.0mm (0.0787)
Full Stroke	6~7mm (0.2362~0.2756)
Full Stroke Spring Force (±20%)	170g (6.00oz)
2/3 Stroke Spring Force (±20%)	110g (3.88oz)
Way of Inserting	Press
Recommended Hole Size	1.40mm (0.0551)

*Specification Subject to change without notice

Plunger

High Carbon Steel with Nickel Plated

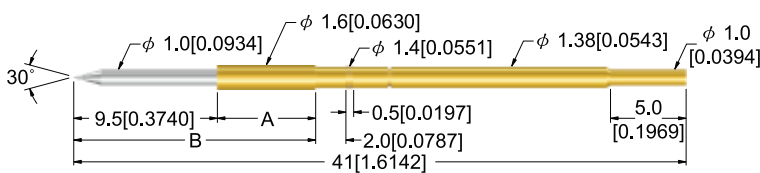
Barrel

Phosphor Bronze with Gold Plated

Spring

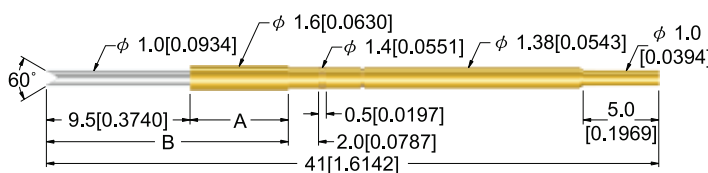
Stainless Steel

CCP-05B



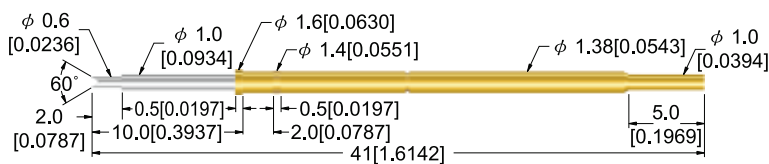
MODEL	A	B
CCP-05B (10)	0.5 (0.0197)	26 (1.0236)
CCP-05B (16)	6.5 (0.2559)	20 (0.7874)

CCP-05F

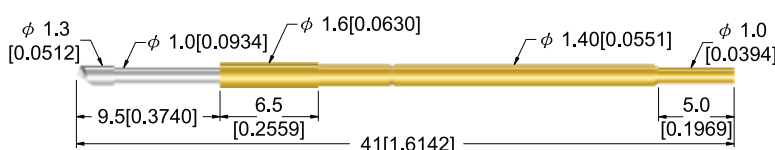


MODEL	A	B
CCP-05F (10)	0.5 (0.0197)	26 (1.0236)
CCP-05F (16)	6.5 (0.2559)	20 (0.7874)

CCP-05F1



CCP-05T

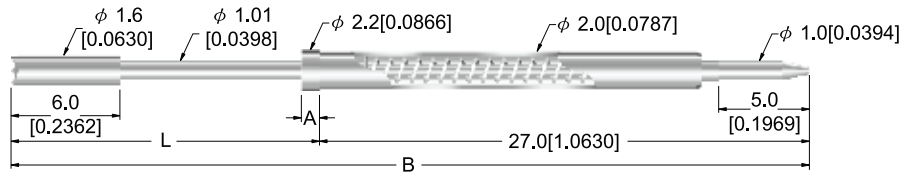


MODEL	A	B
CCP-05T (10)	0.5 (0.0197)	26 (1.0236)
CCP-05T (16)	6.5 (0.2559)	20 (0.7874)

CCP-10

CCP SERIES

Dimensions In Millimeter (inch)



Plunger
High Carbon Steel with Nickel Plated

Barrel
Brass with Nickel Plated

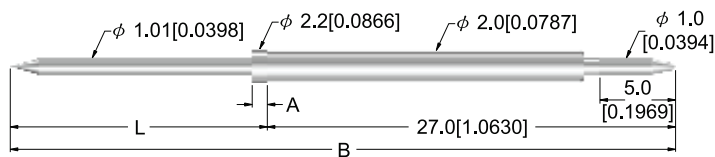
Spring
Stainless Steel

Specification

Min. Center	2.5 mm (0.0984)
Full Stroke	6~7mm (0.2362~0.2756)
Full Stroke Spring Force ($\pm 20\%$)	270g (9.52oz)
2/3 Stroke Spring Force ($\pm 20\%$)	180g (6.35oz)
Way of Inserting	Press
Recommended Hole Size	2.0mm (0.0787)

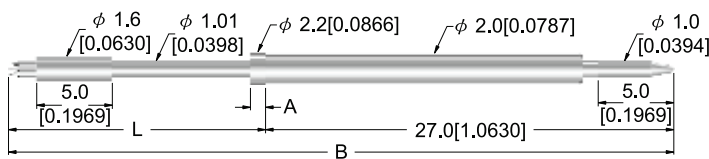
*Specification Subject to change without notice

CCP-10B(L)



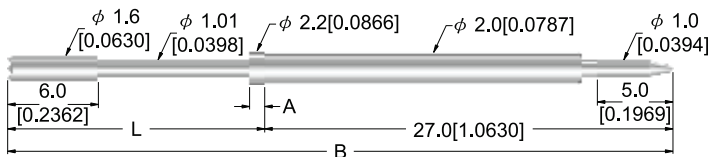
MODEL	A	B	L
CCP-10B (16)	1 (0.0394)	4.3 (1.6929)	16 (0.6299)
CCP-10B (23)	4 (0.1575)	50 (1.9685)	23 (0.9055)

CCP-10M3(L)



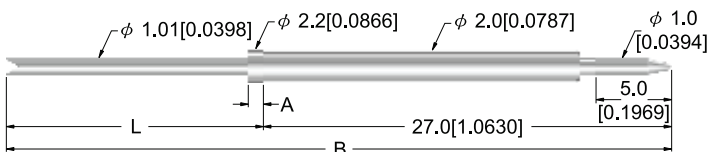
MODEL	A	B	L
CCP-10M3 (16)	1 (0.0394)	4.3 (1.6929)	16 (0.6299)
CCP-10M3 (23)	4 (0.1575)	50 (1.9685)	23 (0.9055)

CCP-10H(L)



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

CCP-10F(L)



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

Dimensions In Millimeter (inch)



Plunger

High Carbon Steel with Nickel Plated

Barrel

Antiwear Resin

Spring

Stainless Steel

Sleeve

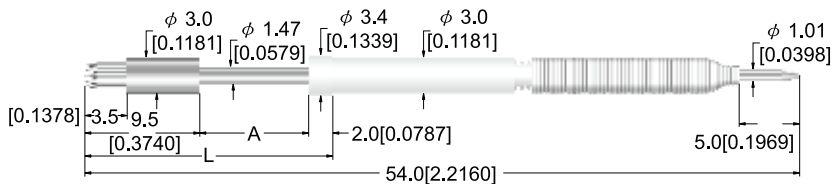
Antiwear Resin Sleeve

Specification

Min. Center	3.5mm (0.1378)
Full Stroke	6~7mm (0.2362-0.2756)
Full Stroke Spring Force (±20%)	270g (9.52oz)
2/3 Stroke Spring Force (±20%)	180g (6.35oz)
Way of Inserting	Press
Recommended Hole Size	3.0mm (0.1181)

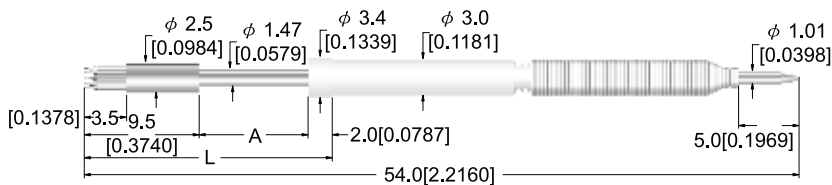
*Specification Subject to change without notice

CCP-15M7(L)



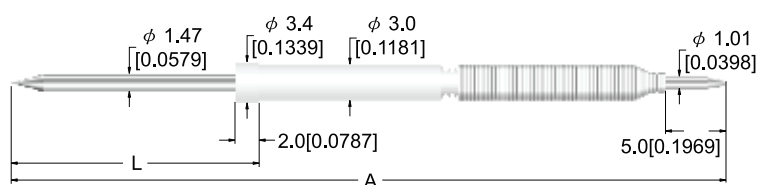
MODEL	L	A
CCP-15M7 (20)	20 (0.7874)	85 (0.3345)
CCP-15M7 (23)	23 (0.9055)	11.5 (0.4528)

CCP-15M3(L)



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)



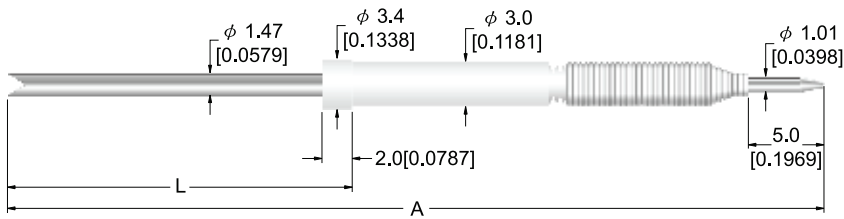
MODEL	L	A
CCP-15B (16)	16 (0.5300)	50 (1.9685)
CCP-15B (20)	20 (0.7874)	54 (2.1260)
CCP-15B (23)	23 (0.9055)	54 (2.1260)

CCP-15

CCP SERIES

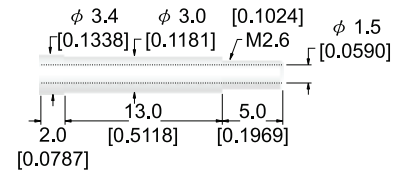
Dimensions In Millimeter (inch)

CCP-15F(L)



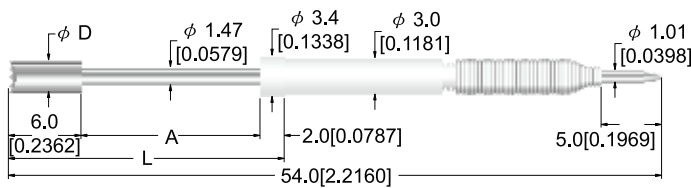
MODEL	L	A	Min. Center
CCP-15F (16)	16 (0.6300)	50 (1.9635)	3.5mm (0.1378)
CCP-15F (20)	20 (0.7874)	54 (2.1260)	3.5mm (0.1378)
CCP-15F (23)	12 (0.9055)	54 (2.1260)	3.5mm (0.1378)

Sleeve



Material	Heat-Proof Temperature
Antiwear Resin	100° C

CCP-15H(∅D)(L)



MODEL	L	A	D	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)

Spring



MODEL	D	L	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)
Material	Stainless Steel		
Application	CCP-15□(16) CCP-15□(20) CCP-15□(23)		

Dimensions In Millimeter (inch)

Plunger

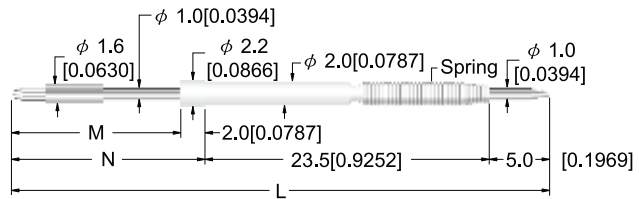
High Carbon Steel with Nickel Plated

Barrel

Antiwear Resin

Spring

Stainless Steel

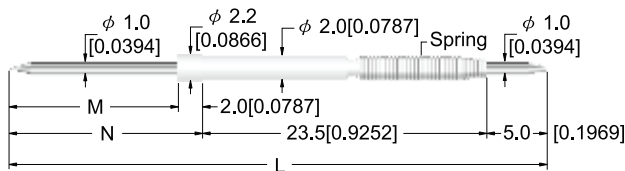


*Specification Subject to change without notice

Recommended Stroke

6.0mm(0.2362)

CCP-101B



Dimension
Item No.

M

N

L

CCP-101B(16)

14

16

44.5

(0.5512)

(0.630)

(1.7520)

CCP-101B(22)

20

22

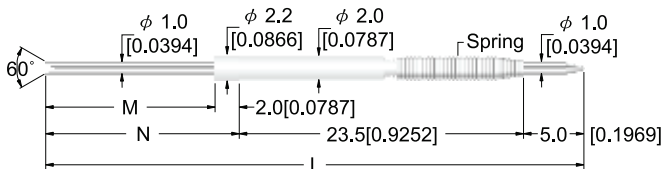
50.5

(0.7874)

(0.8661)

(1.9882)

CCP-101F



Dimension
Item No.

M

N

L

CCP-101F(16)

14

16

44.5

(0.5512)

(0.630)

(1.7520)

CCP-101F(22)

20

22

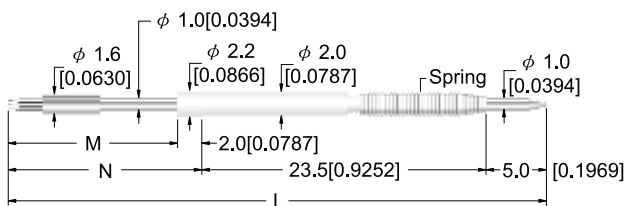
50.5

(0.7874)

(0.8661)

(1.9882)

CCP-101M3



Dimension
Item No.

M

N

L

CCP-101M3(16)

14

16

44.5

(0.5512)

(0.630)

(1.7520)

CCP-101M3(22)

20

22

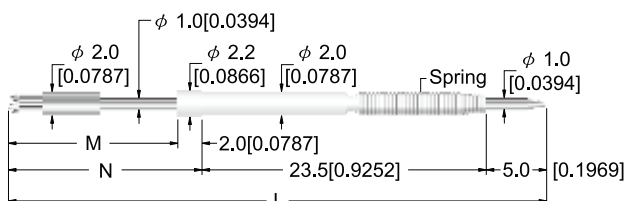
50.5

(0.7874)

(0.8661)

(1.9882)

CCP-101M7



Dimension
Item No.

M

N

L

CCP-101M7(16)

14

16

44.5

(0.5512)

(0.630)

(1.7520)

CCP-101M7(22)

20

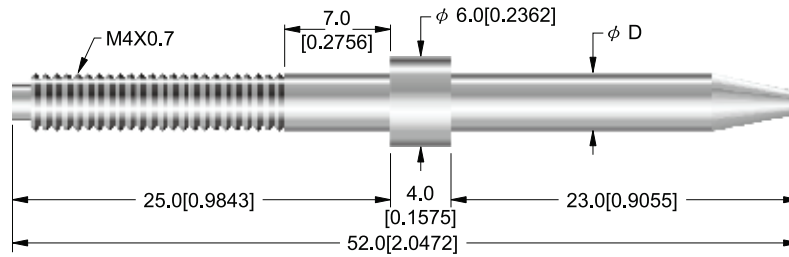
22

50.5

(0.7874)

(0.8661)

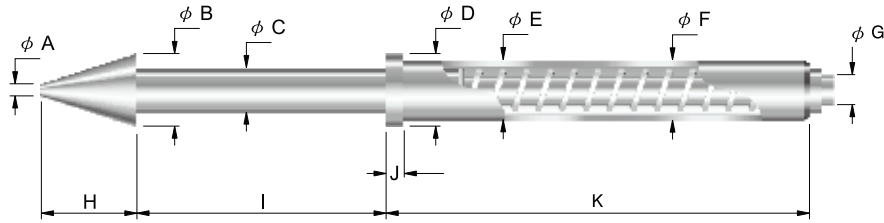
(1.9882)



Guide Pin (For Loaded Board) Copper

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

Dimensions In Millimeter (inch)



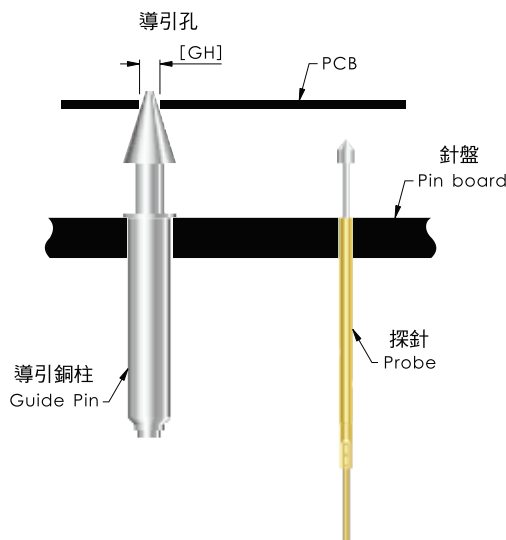
Specification		
Full Stroke Spring Force (±20%)	300g (10.58oz)	350g (12.34oz)
2/3 Stroke Spring Force (±20%)	200g (7.05oz)	290g (10.23oz)
Recommended Hole Size	5.00mm (0.1969)	5.00mm (0.1969)
Suitable For	CCP-15M3-23L	CCP-10-16L / CCP-101-16L / P-25 / P-111

*Specification Subject to change without notice

Guide Pin (For Loaded Board)

Spec 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)

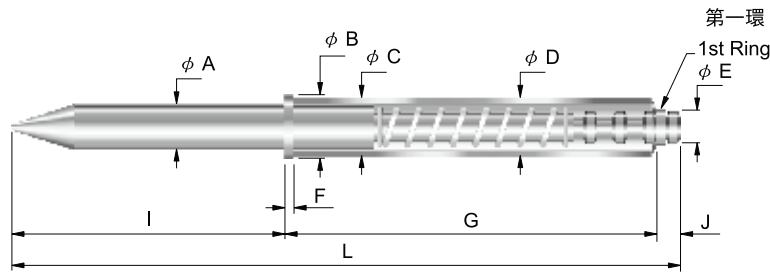
Spec Type	H	I	J	K	O. D. P CB (GH)
I1-6.0	7.90(0.3110)	20.60(0.8110)	1.50(0.0591)	35.00(1.3780)	1.0/1.05mm (0.0394)/(0.0413)
GP-2J	7.80(0.3071)	13.80(0.5433)	1.00(0.0394)	25.00(0.9843)	1.30/1.35mm (0.0512)/(0.0531)



GP

GUIDE PINS SERIES

Dimensions In Millimeter (inch)



Specification	GP-1P	GP-2P	GP-3P	GP-5P
Full Stroke Spring Force ($\pm 20\%$)	150g (5.29oz)	170g (6.00oz)	300g (10.58oz)	300g (10.58oz)
2/3 Stroke Spring Force ($\pm 20\%$)	100g (3.53oz)	120g (4.23oz)	220g (7.76oz)	230g (8.11oz)
Recommended Hole Size	3.20mm (0.1260)	5.00mm (0.1969)	6.00mm (0.2362)	4.50mm (0.1772)
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

*Specification Subject to change without notice

Guide Pin (For Bare Board)

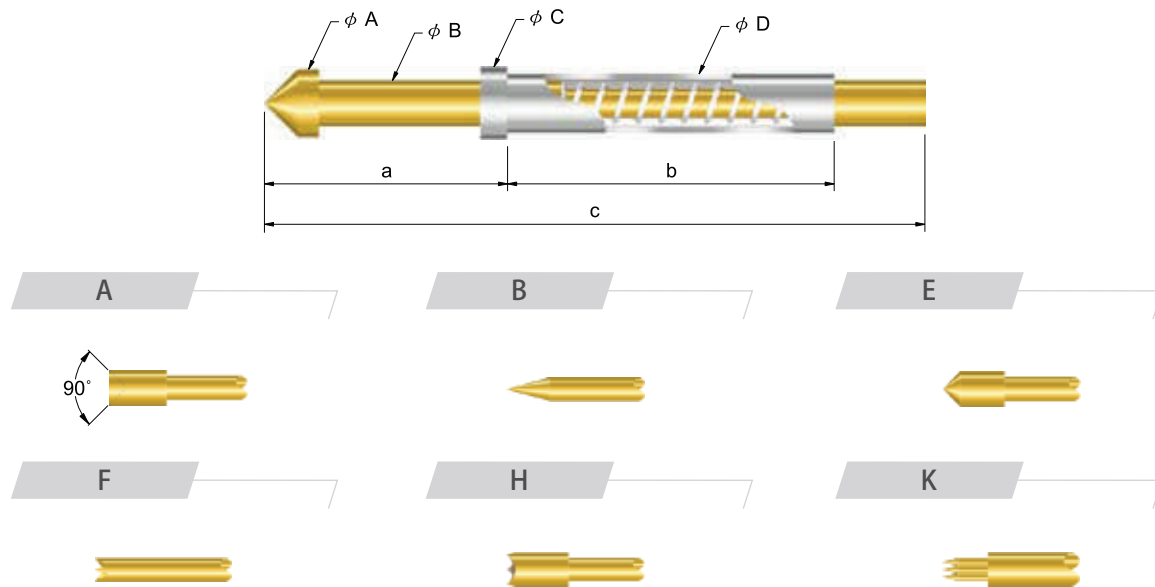
Spec Type	ϕA	ϕB	ϕC	ϕD	ϕE	F	G	L	O. D. PCB (GH)
GP-1P	2.48 (0.0976)	3.50 (0.1378)	3.20 (0.1260)	3.15 (0.1240)	1.83 (0.0720)	0.50 (0.0197)	20.00 (0.7874)	32.80 (1.2913)	1.0/ 1.5mm (0.0394)/(0.0591)
GP-2P	3.98 (0.1567)	5.50 (0.2165)	5.00 (0.1969)	4.95 (0.1949)	2.53 (0.0996)	0.50 (0.0197)	25.00 (0.9843)	38.60 (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	1st Ring				2nd				3rd				4th			
	1st Ring	2nd	3rd	4th	1st Ring	2nd	3rd	4th	1st Ring	2nd	3rd	4th	1st Ring	2nd	3rd	4th
GP-1P	11.60 (0.4567)	10.40 (0.4094)	9.20 (0.3622)	8.00 (0.3150)	11.60 (0.4567)	10.40 (0.4094)	9.20 (0.3622)	8.00 (0.3150)	11.60 (0.4567)	10.40 (0.4094)	9.20 (0.3622)	8.00 (0.3150)	11.60 (0.4567)	10.40 (0.4094)	9.20 (0.3622)	8.00 (0.3150)
GP-2P	12.15 (0.4783)	9.70 (0.3819)	7.25 (0.2854)	4.80 (0.1890)	12.15 (0.4783)	9.70 (0.3819)	7.25 (0.2854)	4.80 (0.1890)	12.15 (0.4783)	9.70 (0.3819)	7.25 (0.2854)	4.80 (0.1890)	12.15 (0.4783)	9.70 (0.3819)	7.25 (0.2854)	4.80 (0.1890)
GP-3P	12.25 (0.4823)	9.80 (0.2756)	7.35 (0.2894)		12.25 (0.4823)	9.80 (0.2756)	7.35 (0.2894)		12.25 (0.4823)	9.80 (0.2756)	7.35 (0.2894)		12.25 (0.4823)	9.80 (0.2756)	7.35 (0.2894)	
GP-5P	12.95 (0.5098)	11.00 (0.4331)	9.05 (0.3563)	7.10 (0.2795)	12.95 (0.5098)	11.00 (0.4331)	9.05 (0.3563)	7.10 (0.2795)	12.95 (0.5098)	11.00 (0.4331)	9.05 (0.3563)	7.10 (0.2795)	12.95 (0.5098)	11.00 (0.4331)	9.05 (0.3563)	7.10 (0.2795)

CSP-1~CSP-5

CSP SERIES

Dimensions In Millimeter (inch)



	CSP-1	CSP-2	CSP-3	CSP-4	CSP-5
Full Stroke Spring Force (±20%)	100g (3.53oz)	100g (3.53oz)	150g (5.29oz)	150g (5.29oz)	200g (7.05oz)
2/3 Stroke Spring Force (±20%)	70g (2.47oz)	70g (2.47oz)	100g (3.53oz)	100g (3.53oz)	140g (4.94oz)
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)
Probe Materials	Becu	Becu	Becu	Becu	Brass
Connections	Solder	Solder	Solder	Solder or Crimp 1.0mm Terminal Wire	Solder or Crimp 1.5mm Terminal Wire

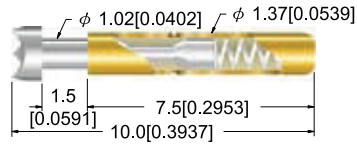
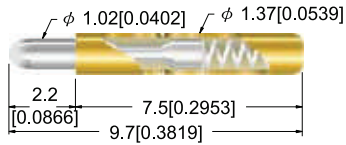
*Specification Subject to change without notice

Spec Type	∅A	∅B	∅C	∅D	a	b	c	Stroke	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

Dimensions In Millimeter (inch)



Plunger

Beryllium Copper
with Rhodium Plated or Gold Plated

Barrel

Brass with Gold Plated

Spring

Stainless Steel

Sleeve

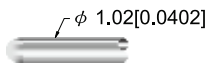
Brass with Gold Plated

Specification

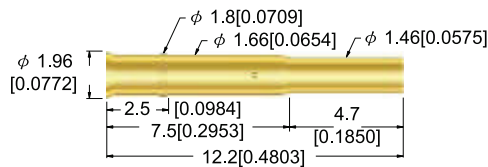
Min. Center	2.54mm (0.10000)
Full Stroke	1.50mm (0.0591)
Full Stroke Spring Force (±20%)	110g (3.88oz)
2/3 Stroke Spring Force (±20%)	80g (2.82oz)
Current Rating	3A
Contact Resistance	30 mΩ
Recommended Hole Size	1.70mm(0.0669)~1.75mm(0.0689)

*Specification Subject to change without notice

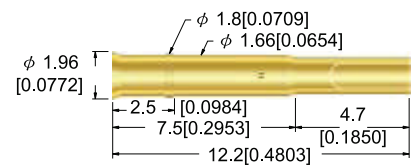
CSP-6D



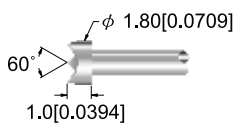
CSR-6V



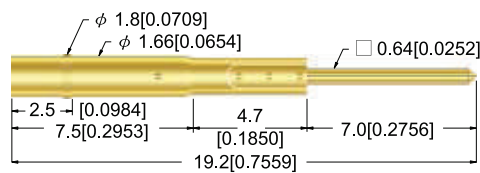
CSR-6VS



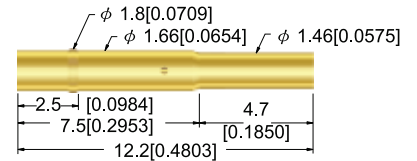
CSP-6H



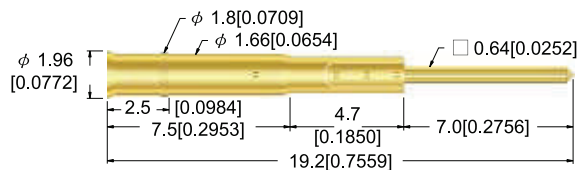
CSR-6V-2



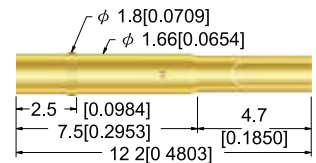
CSR-6WC



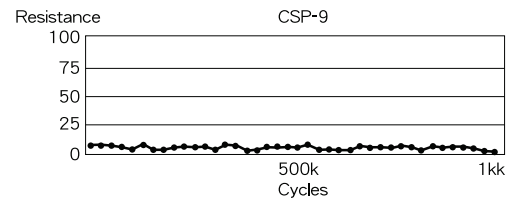
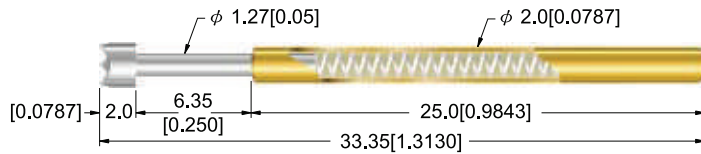
CSR-6W-2



CSR-6WS



Dimensions In Millimeter (inch)



Plunger

Beryllium Copper
with Rhodium Plated or Gold Plated

Barrel

Brass with Gold Plated

Spring

Stainless Steel

Sleeve

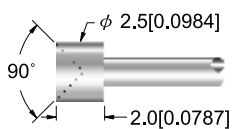
Brass with Gold Plated

Specification

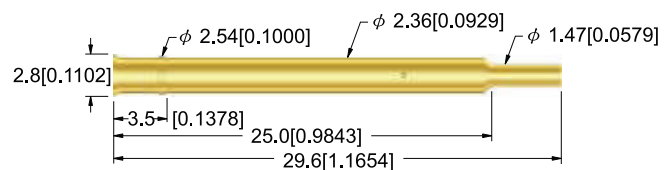
Min. Center	3.17mm (0.1248)
Full Stroke	6.35mm (0.2500)
Full Stroke Spring Force ($\pm 20\%$)	150g (5.29oz)
2/3 Stroke Spring Force ($\pm 20\%$)	100g (3.53oz)
Current Rating	5A
Contact Resistance	30 m Ω
Recommended Hole Size	2.40mm(0.0945)~2.45mm(0.0965)

*Specification Subject to change without notice

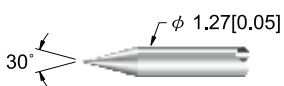
CSP-9A



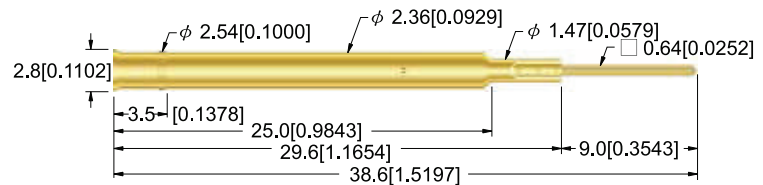
CSR-9V-C



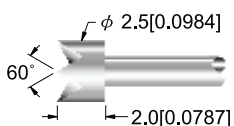
CSP-9B



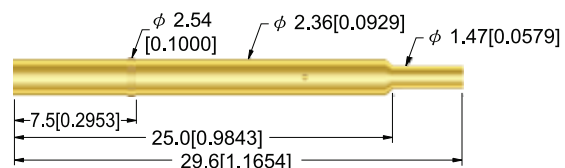
CSR-9V-1



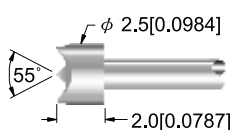
CSP-9F



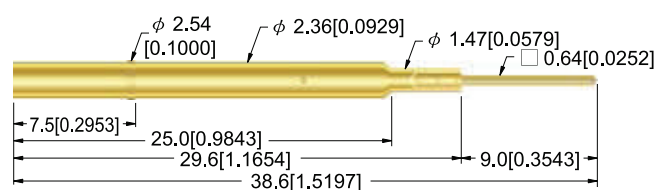
CSR-9WC



CSP-9H



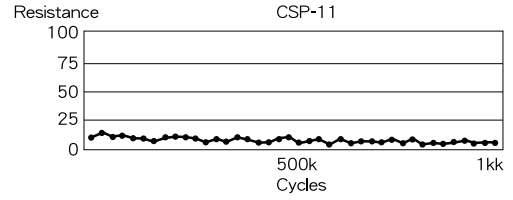
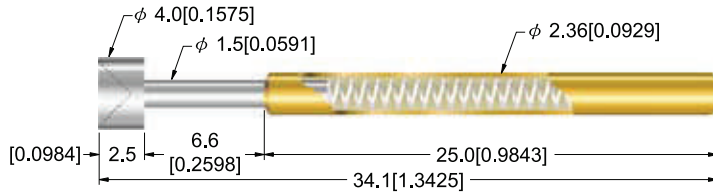
CSR-9W-1



CSP-11

CSP SERIES

Dimensions In Millimeter (inch)



Plunger
Beryllium Copper
with Rhodium Plated or Gold Plated

Barrel
Brass with Gold Plated

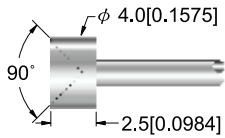
Spring
Stainless Steel

Sleeve
Brass with Gold Plated

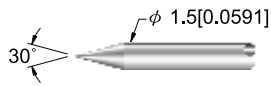
Specification	
Min. Center	3.97mm (0.1563)
Full Stroke	6.60mm (0.2598)
Full Stroke Spring Force ($\pm 20\%$)	150g (5.29oz)
2/3 Stroke Spring Force ($\pm 20\%$)	100g (3.53oz)
Current Rating	5A
Contact Resistance	30 m Ω
Recommended Hole Size	2.70mm(0.1063)~2.75mm(0.1083)

*Specification Subject to change without notice

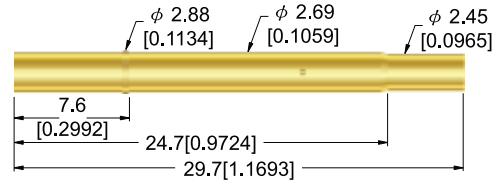
CSP-11A



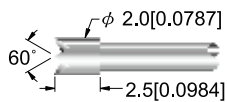
CSP-11B



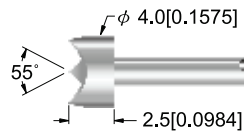
CSP-11W1



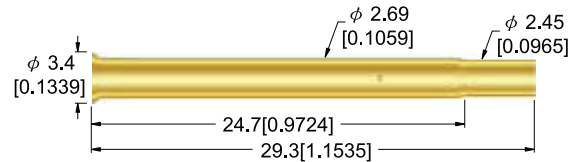
CSP-11F



CSP-11H



CSP-11V1



COAXIAL PROBE

Dimensions In Millimeter (inch)



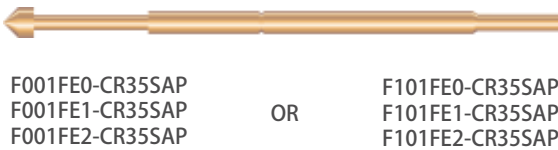
單位 Unit : A(mm), B(mm)

單位 Unit : A(mm), B(mm)

Signal: H Style



Signal: E Style



Signal Spec		Length Spec
Spec	Dimension A	Dimension B
H0	∅0.9mm	35cm
E0	∅0.9mm	
E1	∅1.6mm	60cm
E2	∅1.2mm	

(FXXXXXX-CR60SAP)

Electrical Characteristics	
Ground Current Rating	3A
Signal Current Rating	3A
Impedance	50 ± 10Ω
Band Width	-0.3db @ 3G Hz
Mechanical Characteristics	
Signal Full Stroke	2.65mm
Signal Spring Force @2/3 Travel	60 ± 20%

*Specification Subject to change without notice

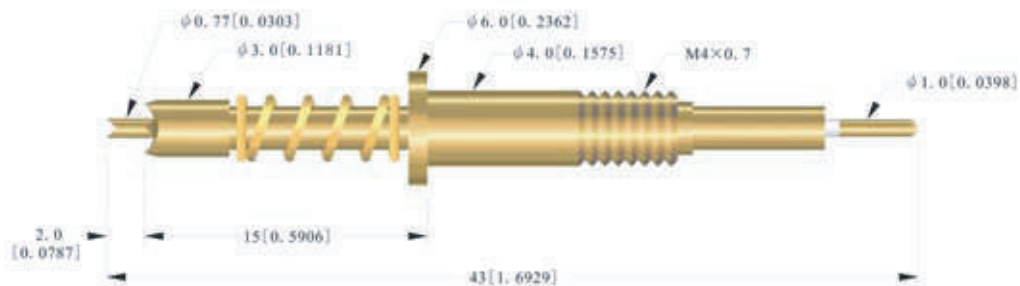
Application

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

Dimensions In Millimeter (inch)

CS90046M1



Electrical Characteristics

Max Continuous Current Contact Sleeve	6A
Max Continuous Current Contact Plunger	3A
Hole Size	
Recommended Min Center	7mm (0.2756)
Mounting Hole Size	4mm (0.1575)

Machanical Characteristics

Full Stroke	4.0mm (0.1575)
Outter Stroke	3.0mm (0.1180)
Central Stroke	2.0mm (0.0787)
Outter Spring	500g ± 20%
Central Spring	130g ± 20%

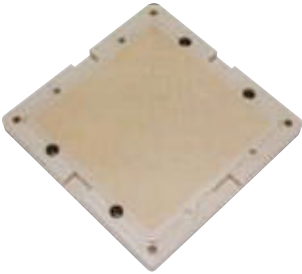
*Specification Subject to change without notice

Application

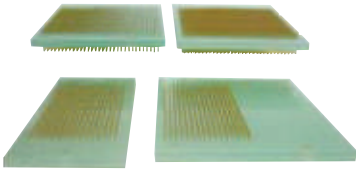
Battery System Activated Element Test
 Battery Contact Test
 Capability Of Electric Current Signal Transmission Test

PERIPHERALS OF FIXTURE

Dimensions In Millimeter (inch)



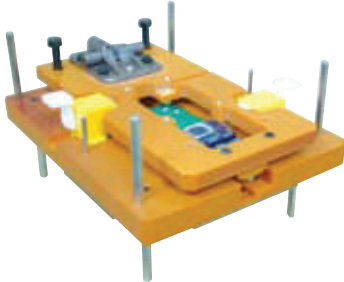
IC TEST SOCKET



WIRE WRAPPING POST SET



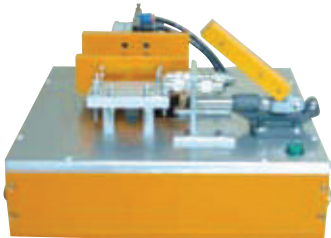
LCD TESTING FIXTURE



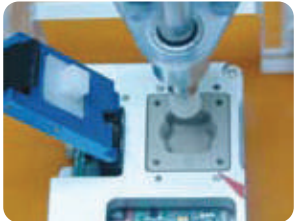
MOBILE PHONE TESTING FIXTURE



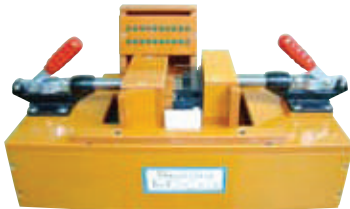
GPS TESTING FIXTURE



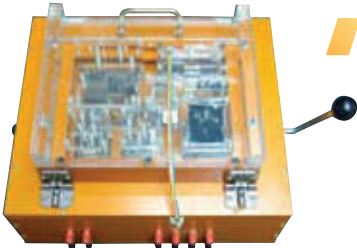
RF MODULE TESTING FIXTURE



RF IC MODULE TESTING FIXTURE



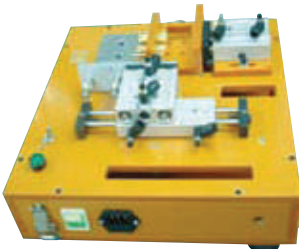
CONNECTOR TESTING FIXTURE



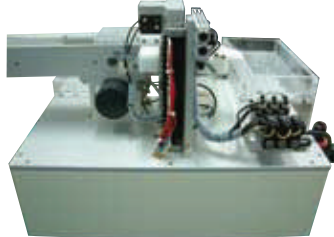
CAM TYPE TESTING FIXTURE



GEAR TYPE TESTING FIXTURE



AIR PRESSURE TYPE TESTING FIXTURE



LI BATTERY TESTING FIXTURE

*Specification Subject to change without notice

PERIPHERALS OF FIXTURE

Dimensions In Millimeter (inch)



CCPC-34-SGT



CCPC-34-WNT



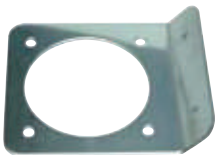
CCPC-64-SGT



CCPC-64-WNT



CCPE-HC



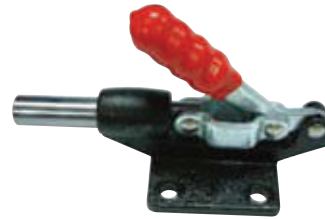
CCPE-MS



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

Dimensions In Millimeter (inch)



CCPJ-S1



CCPJ-S8



CCPJ-S2



CCPJ-L2



CCPJ-S3



CCPJ-L3



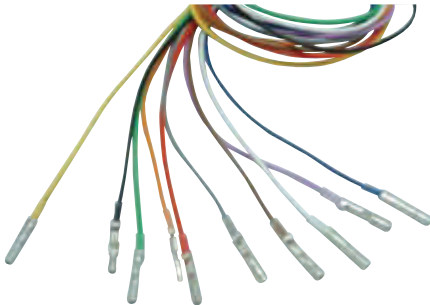
CCPJ-S4



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



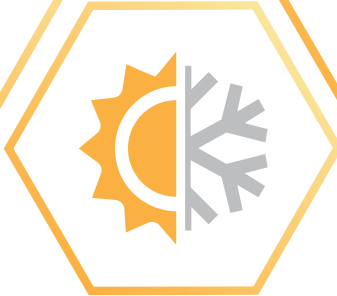
Waterproof Test Level

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

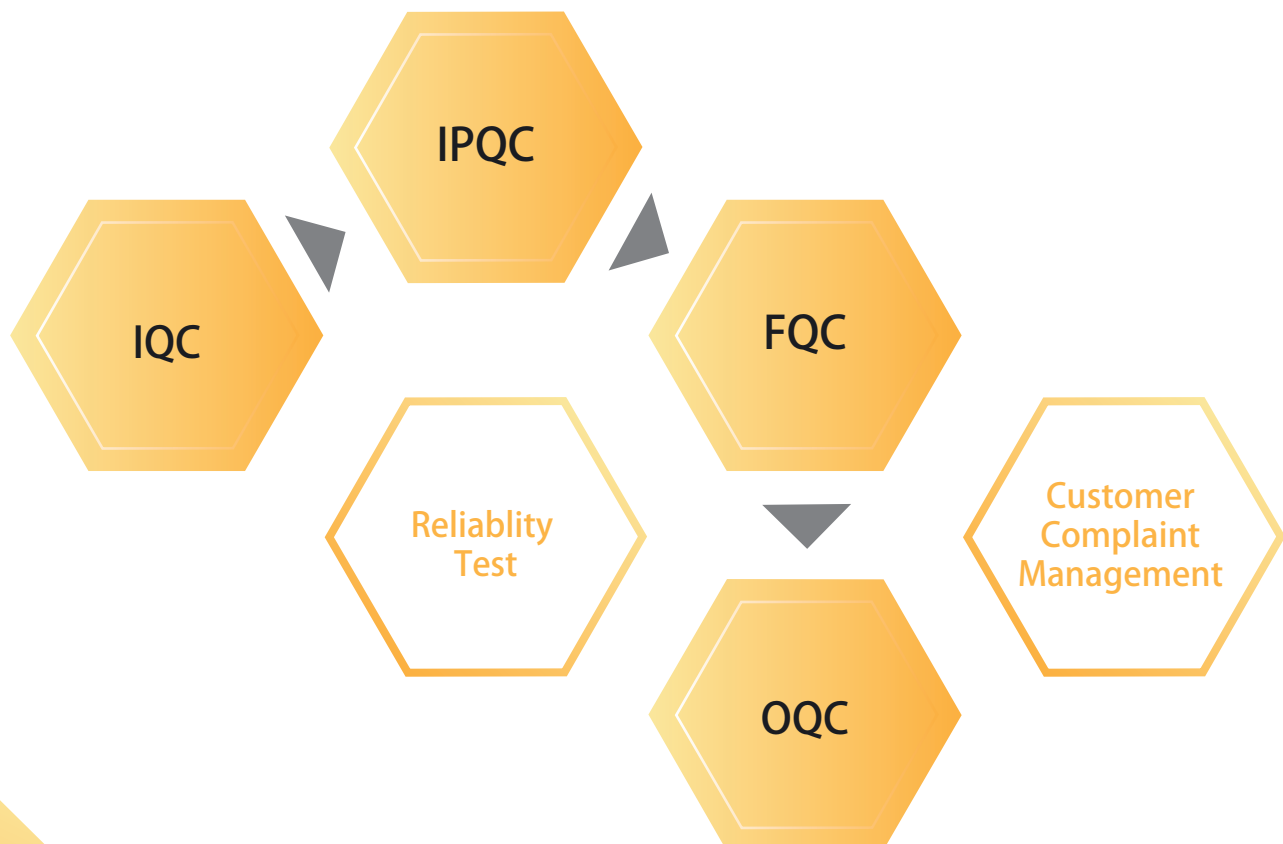
IATF 16949: 2016

Automotive Quality Management Systems

QC 080000

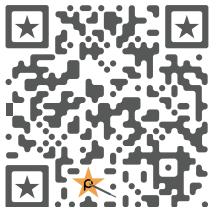
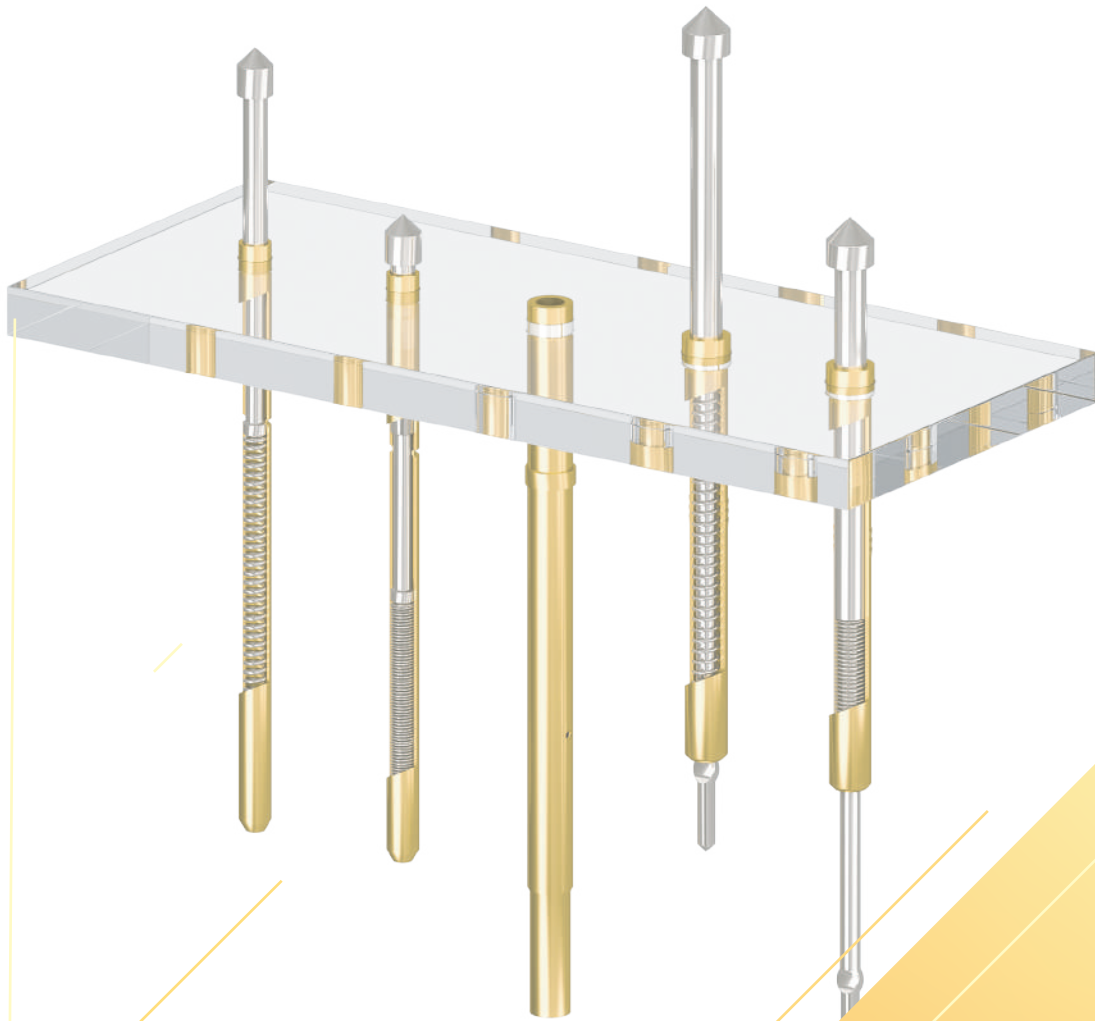
Hazardous Substance Process Management

Quality Assurance





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