Pogo Pin Connectors

Single Pins
Connector Modules
Customized Connectors

C.C.P. CONTACT PROBES

TABLE OF CONTENT

01 About CCP Contact Probes
04 Pogo Pin Introduction
08 CCP Plating Technology
10 Pogo Pin Application
14 Waterproof Connector
15 Ball Point Connector
16 Screw Pin
17 Magnetic Connector
18 High Current Pin
19 Ultra Small Pin
20 Standard Connecotor

Product List
22 Single Pin
28 Non Standard Connector
51 Ball Point Connector
52 Waterproof Connector
55 Magnetic Connector
56 High Current Pin
57 Double End Pin
58 Ultra Small Pin
59 Screw Pin

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.

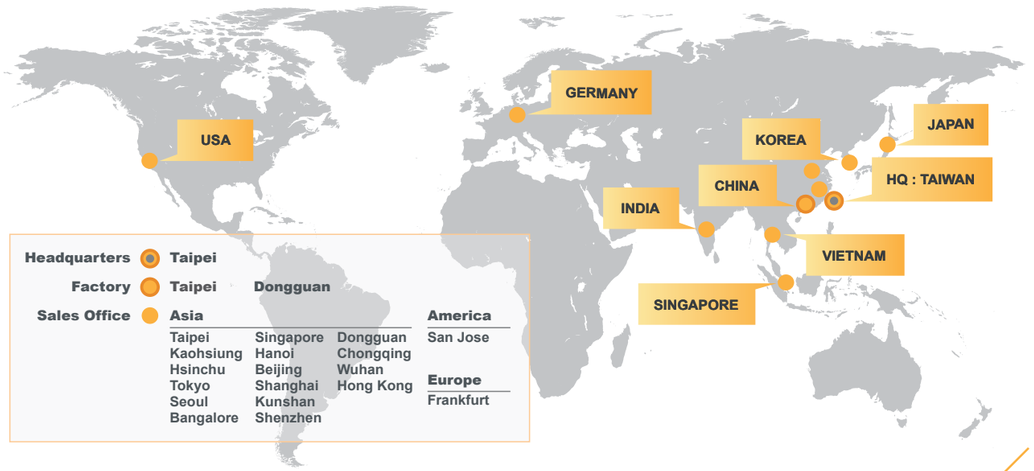
In 1986 we began as a specialized provider of test probes and socket auxiliary solutions and slowly expanded our product portfolio in related industries such as electronic components manufacturing. Among our customers are renowned brands like Apple and Amazon and our products are revered by our customers 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 MICROCHIP Kingston TECHNOLOGY COMMITTED TO MEMORY ADVANTEST

Locations



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

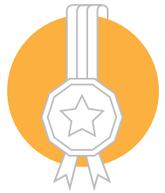
Yearly Home Visit

Employee's Children
Summer Camp

Tuition Subsidy
for Employee's Children

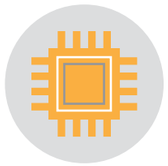
Over 30 Years of Product Development Experience
Servicing Industry-leading Clients

Agile and Flexible Design Process with Self-owned
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



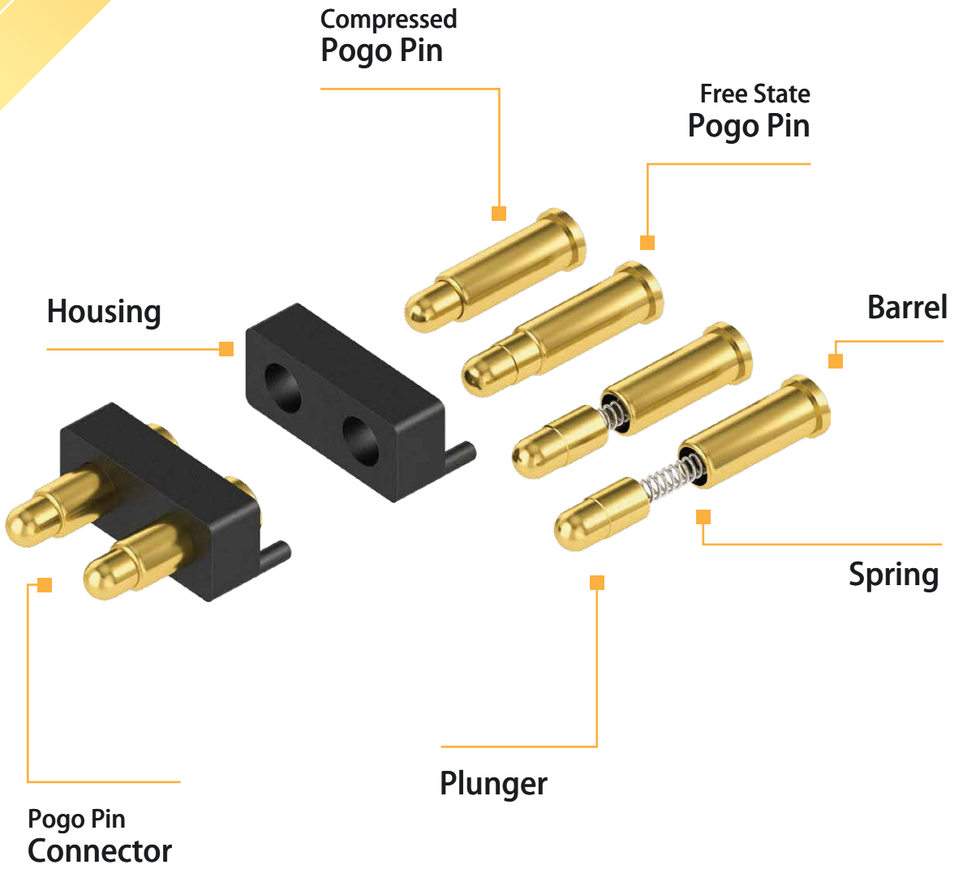
Testing
Solutions

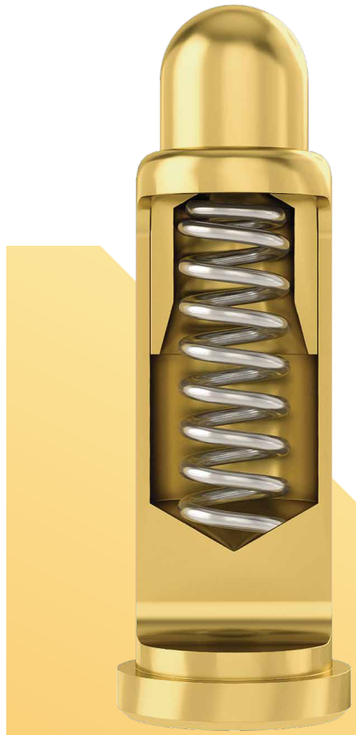
Commercial
Connector Solutions

High Current
Connector Solutions

Industrial
Connector Solutions

POGO PIN INTRODUCTION





WHEN TO USE POGO PINS

Advantage

IMPROVED USER EXPERIENCE

Easy to plug-in, no accidental rip off of the cable.

STABLE CURRENT FLOW

Different pogo designs maximize the stability of the current flow, by increasing the number of contact points inside the pin.

SMALL VOLUMES POSSIBLE

Pogo pins are produced with high precision turning machines and don`t require a mold as it is the case for other connectors that are using a stamping process.

LIMITED SPACE & HIGH CURRENT

The trend towards miniaturization in the electronics industry is continuing. No other connector has a better space to current ratio as a pogo pin.

SIMPLIFY ASSEMBLY AND SAVE COST

The complexity of today`s electronics increases the assembly costs and difficulty significantly. Pogo pins not just reduce the manual labor time for inserting cables or pins, they also open up new design and arrangement options for industrial designers and engineers.

HIGH TOLERANCE

Small errors in the production often lead to unstable connectors as they are not properly touching the surface of their counterpart. Pogo pins allow extremely high tolerances in the production and thereby decreasing the likelyhood for errors.

LONG LIFE-TIME

Pogo pins have a far superior life-time as compared to other connector types as they minimize the mechanical strain on the parts.

POGO PIN DESIGNS

The current a pogo pin can carry depends largely on 3 factors:

Number of Contact Points

The ball design maximizes the number of contact points, thereby allowing a higher and more stable flow of current.

Spring Force

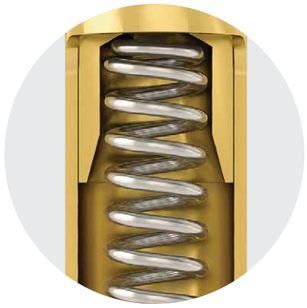
The higher the spring force, the better the plunger is pressed against the wall of the barrel, allowing a stable current flow.

Material

Different material types can heavily influence the conductivity of the pin, but also the roughness is imporant to increase the current flow.

BACK DRILL

The drilled plunger creates extra space for the spring and allowing shorter pogo pin designs.



Pin Length: ≈ 2.5 mm
Current: 1 A

BIAS TAIL

The biased tail of the plunger creates a lateral force and better contact.

Pin Length: ≈ 3.5 mm
Current: 2 A

BALL

The ball inside stabilizes the contacting areas for a better performance.

Pin Length: ≈ 4.5 mm
Current: 3~5 A

MATERIALS

Housing

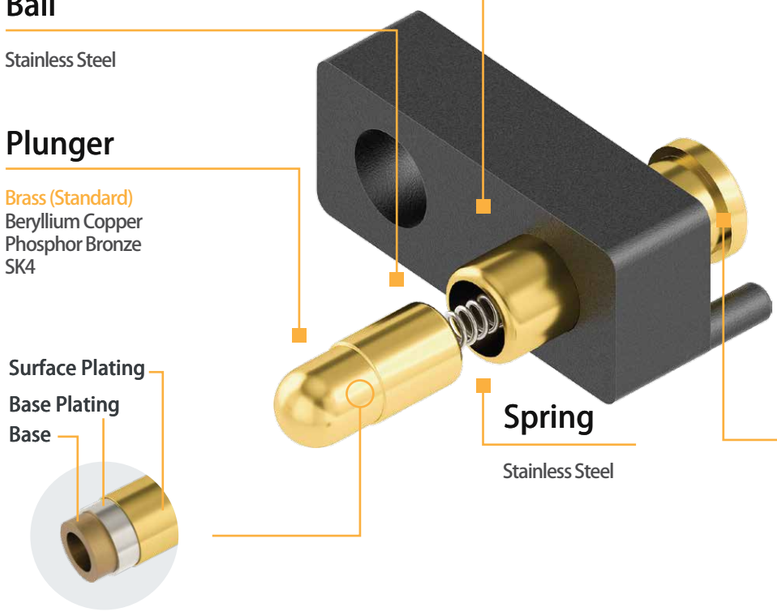
Polyoxyethylen (Standard)
PBT Polybutylene terephthalate
LCP Liquid-crystal polymers
HTN Polyphthalamide
PA10T

Ball

Stainless Steel

Plunger

Brass (Standard)
Beryllium Copper
Phosphor Bronze
SK4



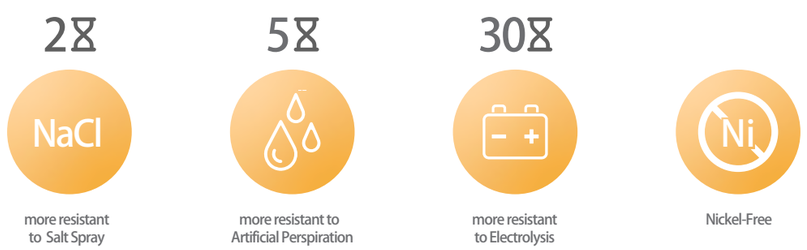
When should you use which surface plating?

Plating	Hardness (HV)	Function	Color
Gold	200	Low resistance	Gold
Super AP	400	Superior corrosion resistance, low electrical resistance	Silver
Nickel	150-200	Low cost, corrosion resistant	Silver
Palladium-Nickel	330-380	Improved signal transmission	Silver
Red Brass (CuSnZn)	600	Replace Nickel	Silver
Palladium Cobalt	450-600	Replace Pd-Ni	Silver
Palladium Cobalt	600-800	Black color requirement	Black

CCP PLATING TECHNOLOGY

Industry-Leading Anti-Corrosion

CCP's Super AP plating is the gold-standard of the industry. Its superior composition makes it extremly resistant to electrolytic corrosion while maintaining a very low resistance. The perfect solution for any kind electrical application.



Comparison of Gold and Super AP Plating:

CCP PLATING TECHNOLOGY

Industry-Leading Anti-Corrosion

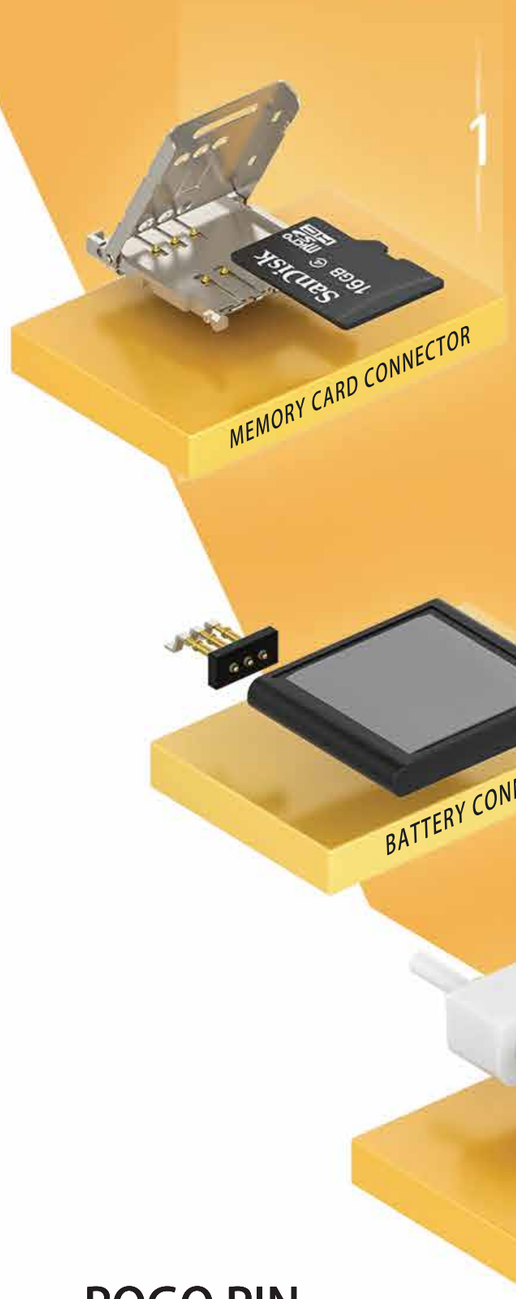
Understanding Galvanic Corrosion:

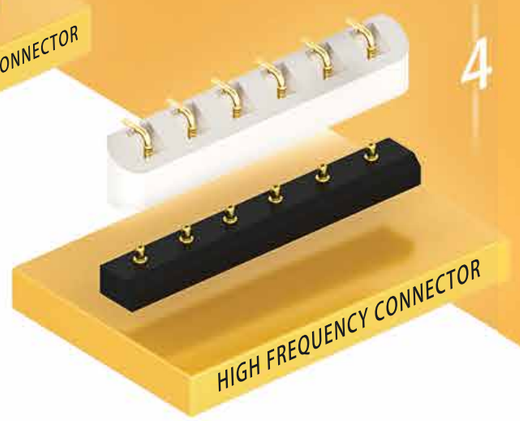
Galvanic corrosion occurs, when two different metals of different nobility get into close contact in the presence of an electrolyte such as water. Dissimilar metals have different electrode potentials which cause one of the metals to act as a cathode and the other as an anode. The resulting current flow is the main cause for the corrosion of the lesser noble (anode) metal. Acid or alkali environments, for example on human skin, can accelerate galvanic corrosion significantly and attack even metals such as gold and plating.

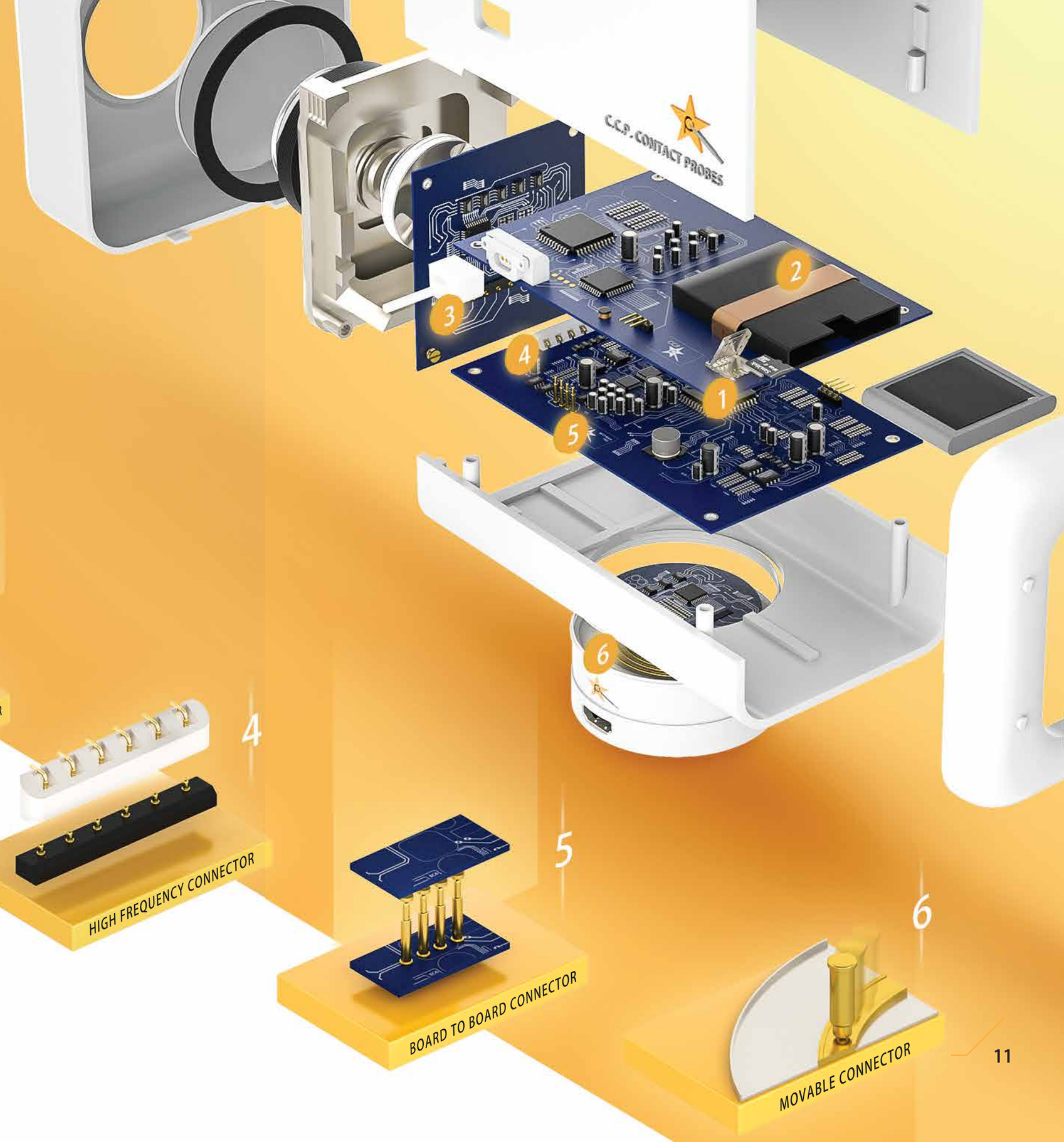
Plating	Testing standard	Au(50u") Layer	APII Layer	Super AP Layer
Nickel Release	EN 12472:2005+A1:2009	Nickel-containing process	Nickel-free process	Nickel-free process
Contact Resistance (mΩ)	EIA-364-23	< 50	< 50	< 50
Salt Spray Resistance (HR)	EIA-362-26	96	96	168
Artificial Sweat Resistance (HR)	ISO-3160	96	96	168
Surface Hardness (HV)	ISO 6507-1:2005	200	400	400
Electrolysis Resistance Time	1mA, 5V, Pitch=0.60mm	<1 Min	15 Min	60 Min

POGO PIN APPLICATIONS

Spring loaded connectors can be used for a wide variety of applications. Their versatility make them true allrounders, from charging applications to high frequency signal transmission.







POGO PIN INDUSTRIES

MEDICAL

- CPI Dockings
- Skin Lasers
- Inhalation Machines
- Pregnancy Monitors

INDUSTRIAL

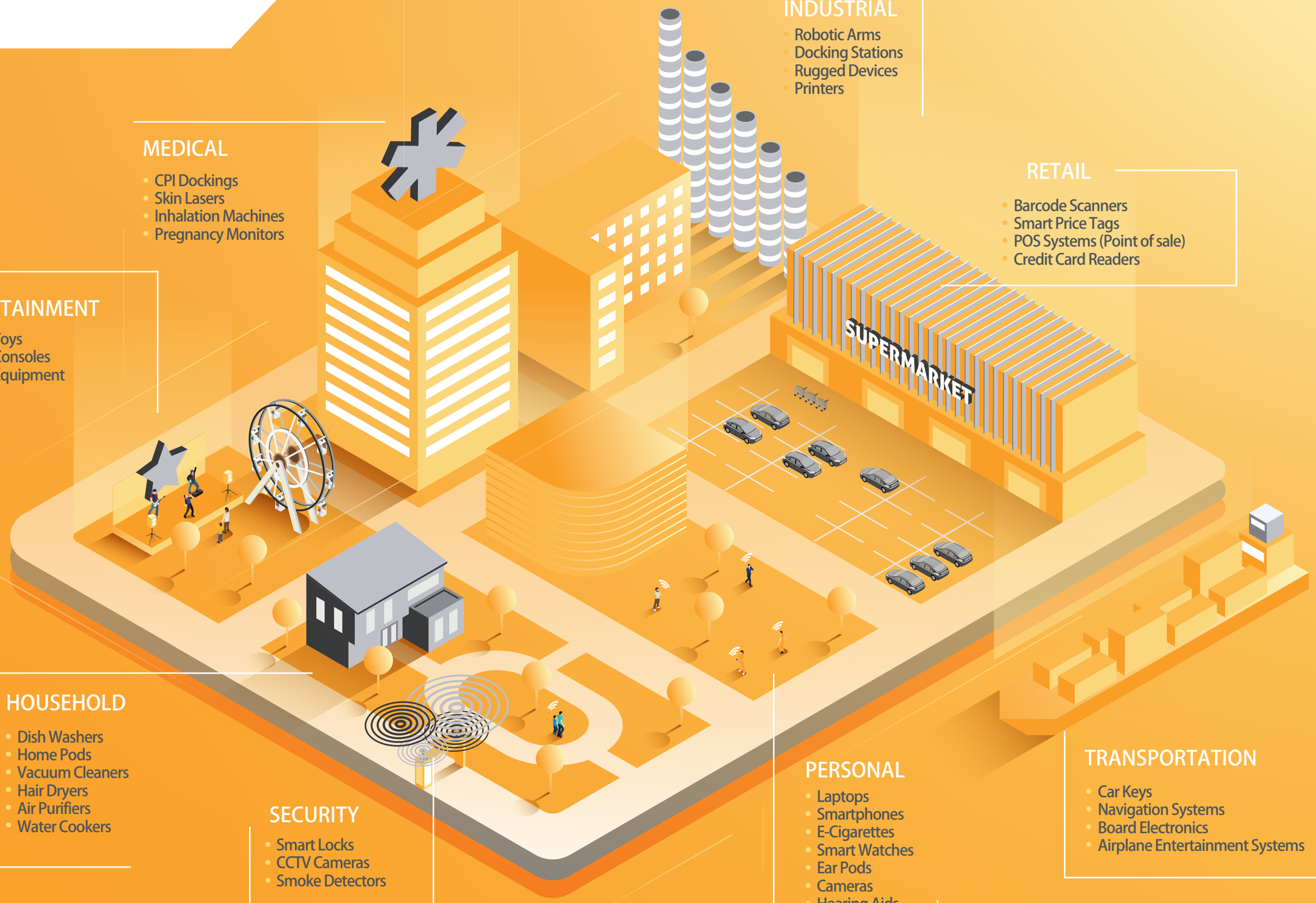
- Robotic Arms
- Docking Stations
- Rugged Devices
- Printers

RETAIL

- Barcode Scanners
- Smart Price Tags
- POS Systems (Point of sale)
- Credit Card Readers

ENTERTAINMENT

- Smart Toys
- Game Consoles
- Audio Equipment



HOUSEHOLD

- Dish Washers
- Home Pods
- Vacuum Cleaners
- Hair Dryers
- Air Purifiers
- Water Cookers

SECURITY

- Smart Locks
- CCTV Cameras
- Smoke Detectors

PERSONAL

- Laptops
- Smartphones
- E-Cigarettes
- Smart Watches
- Ear Pods
- Cameras
- Hearing Aids

TRANSPORTATION

- Car Keys
- Navigation Systems
- Board Electronics
- Airplane Entertainment Systems

WATERPROOF CONNECTORS

O-RING

Waterproof: IPx8 at best

SEALING

Waterproof: IPx7 at best

INSERT MOLDING

Waterproof: IPx7 at best
No SMT Process Possible

DOES WATER HARM POGO PINS?

CCP`s waterproof pogo pin connectors are designed to withstand any long and short term submersion in water. For very challenging environments we recommend our SuperAP Plating which can withstand the effects of Galvanic Corrosion up to 60 times longer.

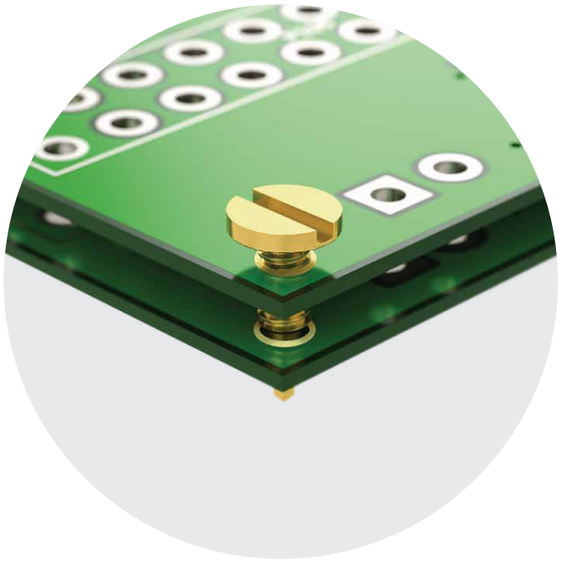
BALL POINT CONNECTOR

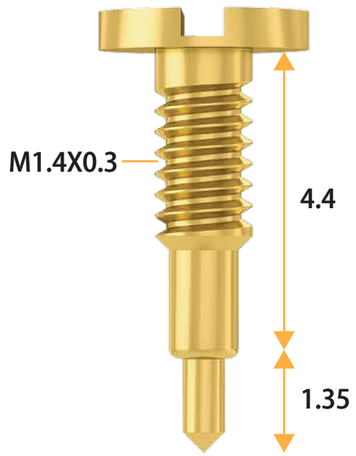
Keeping a stable connection to a moving target can be a challenge,
as constant strain on the components can result in degradation of the materials
and in worst case to a malfunction.
The Ball-Point Connector solves this problem by a radically new design that offers
totally new engineering possibilities and a simplified assembly without cables.

Diameter	Current	Durability
Min 1 mm	1A - 5A	Min 10´000 Compressions
Spring Force	**Contact Resistance**	**Travel Distance**
145g ± 20g	30 mΩ — 100 mΩ	Up to 25 km

SCREW PINS

CCP's Screw Pin design is a smart way to utilize a pogo pin as a connector as well as a mounting part, reducing the assembly cost significantly and opening new design possibilities for industrial engineers.



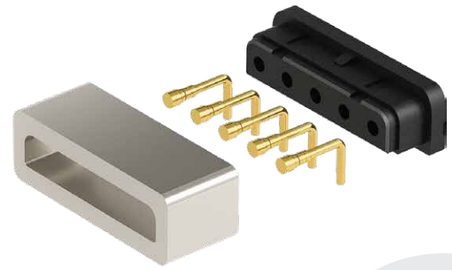


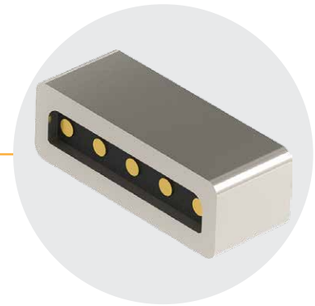
Diameter	Current	Durability
3 mm	1A	10,000 compressions
Spring Force	**Contact Resistance**	
120g ± 20g	200 mΩ	

MAGNETIC CONNECTORS

Magnet Plastic Housing Pogo Pin

Female





Male

Easy to plug

No accidental breaking

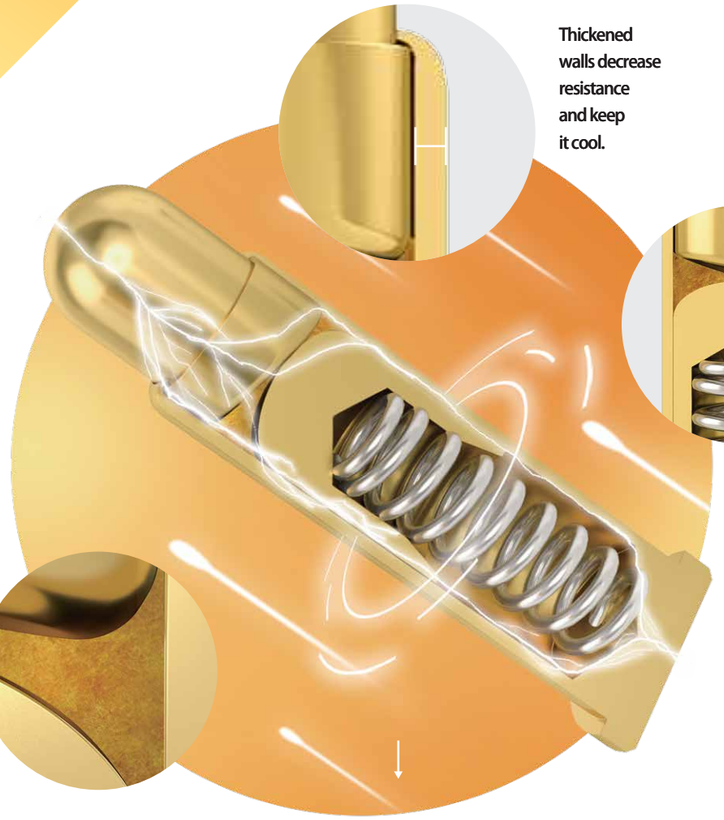
Very durable

20GHz Suitable for high frequency transmission

Assembly Options		
Metal injection molded housing	Two magnets	One magnet to metal

HIGH CURRENT PINS

CCP`s new high current designs takes Pogo Pins to a new level that is second to none in the industry.



Thickened walls decrease resistance and keep it cool.

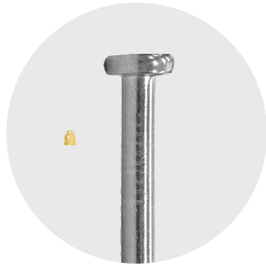
Additional cap that stabilizes the current flow.

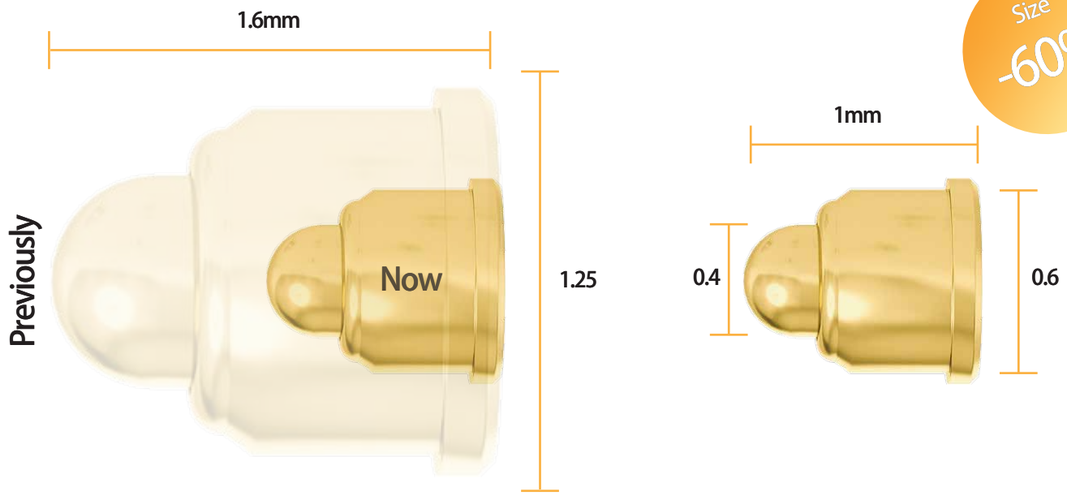
Special inner structure increases the contact area.

Diameter	Current	Durability
2.4 mm	13A	10.000 compressions
Spring Force	**Contact Resistance**	
120g ± 20g	30 mΩ	

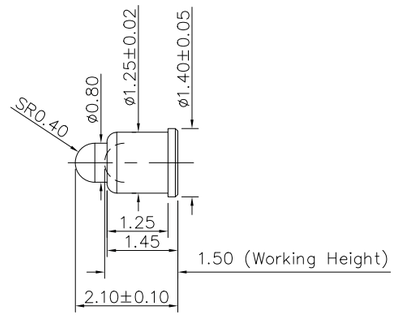
ULTRA SMALL PINS

Meet the smallest bias-cut pogo pin on the market today making even the most compact designs possible. The pin is so small, that you could fit over 100 pins on the tip of your finger.



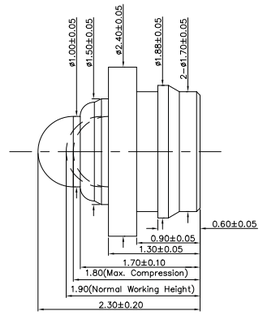


Diameter	Current	Durability
0.6 mm	1A	3,000 compressions
Spring Force	**Contact Resistance**	
25 g	175 mΩ	



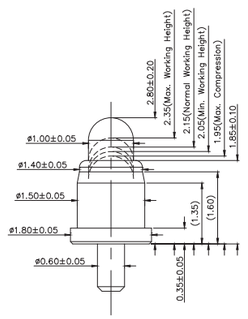
PN: H199M2-R

Length:	2.10 mm
Working Height:	1.50 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	100g±20%



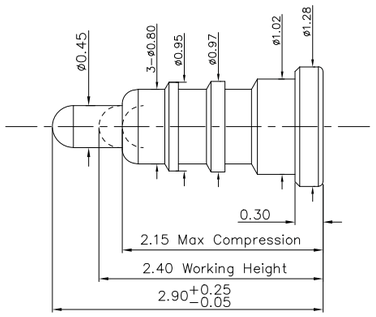
PN: P5271FP04

Length:	2.30 mm
Working Height:	1.90 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	80g±20g



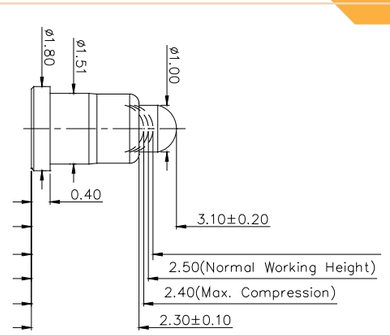
PN: P5625MF01-01A000CR

Length:	2.80 mm
Working Height:	2.15 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	40g±15g



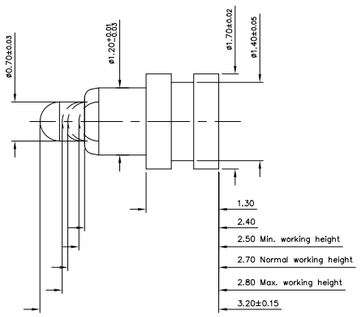
PN: P2988FH03

Length:	2.90 mm
Working Height:	2.40 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	60g±20g



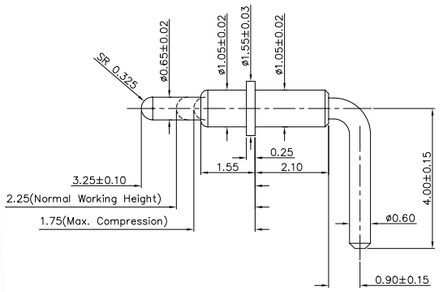
PN: P3198FH01

Length:	3.10 mm
Working Height:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	80g±20g



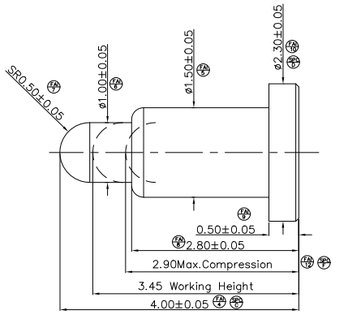
PN: P2616FH03

Length:	3.20 mm
Working Height:	2.70 mm
Current:	1.5 Amps
Contact Resistance:	50 mΩ
Spring Force:	80g±20g



PN: P3533BP02

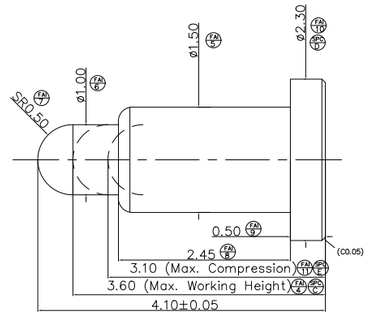
Length:	3.25 mm
Working Height:	2.25 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	80g±20g



PN: P3775FH01

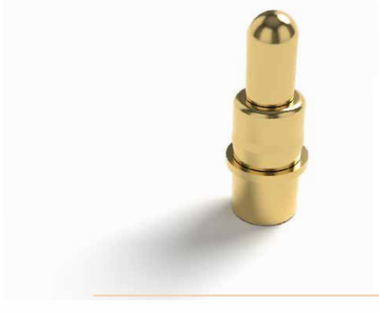
Length:	4.00 mm
Working Height:	3.45 mm
Current:	1 Amp
Contact Resistance:	200 mΩ
Spring Force:	45g±10g

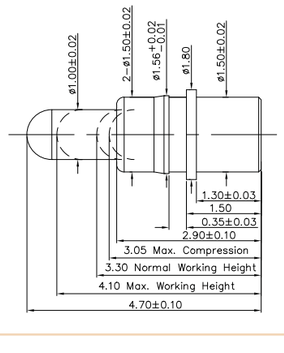
SINGLE PIN



PN: P5067FP01-R

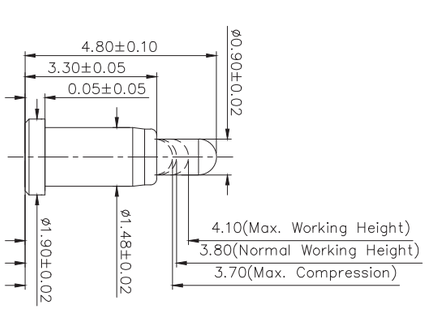
Length:	4.10 mm
Working Height:	3.60 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	100g±20%





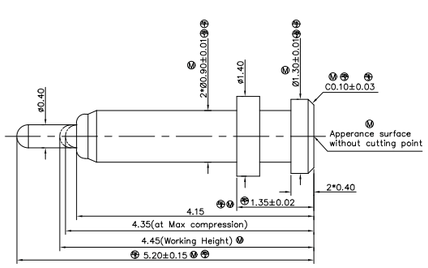
PN: P3697PP01

Length:	4.70 mm
Working Height:	3.30 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	60g±20g



PN: P5660MF03-01A000CR

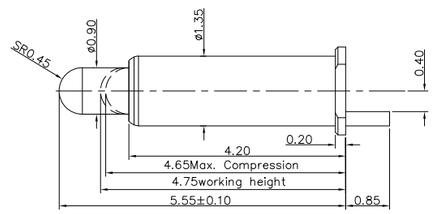
Length:	4.80 mm
Working Height:	3.80 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	70g±20g



PN: P3989FH01

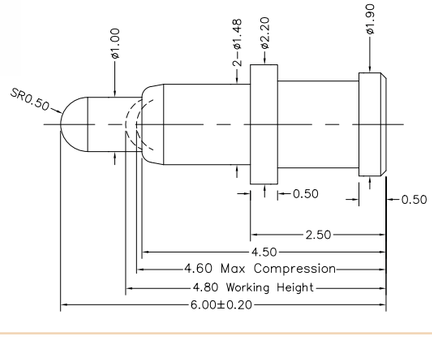
Length:	5.20 mm
Working Height:	4.45 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	65g±15%

SINGLE PIN



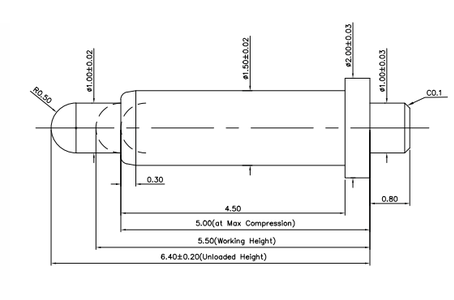
PN: P3730SH02

Length:	5.50 mm
Working Height:	4.75 mm
Current:	5 Amps
Contact Resistance:	50 mΩ
Spring Force:	100g±20%



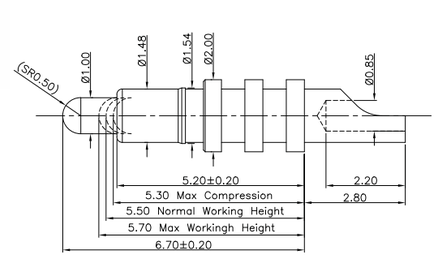
PN: P3256FH01

Length:	6.00 mm
Working Height:	4.80 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	120g±20g



PN: H024M0

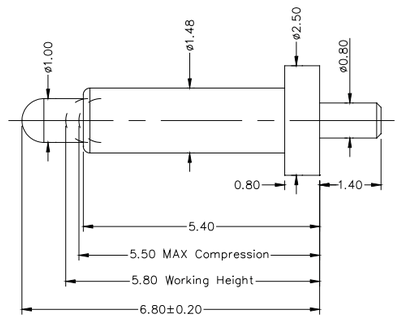
Length:	6.40 mm
Working Height:	5.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	100g±20%



PN: P2859SH01

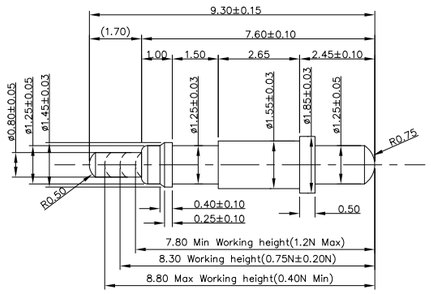
Length:	6.70 mm
Working Height:	5.50 mm
Current:	5 Amps
Contact Resistance:	50 mΩ
Spring Force:	110g±20%

SINGLE PIN



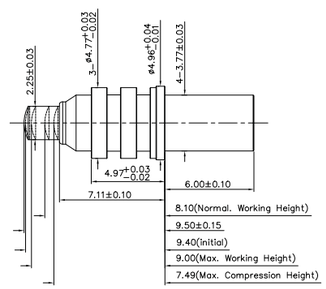
PN: P2871PH01

Length:	6.80 mm
Working Height:	5.80 mm
Current:	3 Amps
Contact Resistance:	50 mΩ
Spring Force:	110g±20%



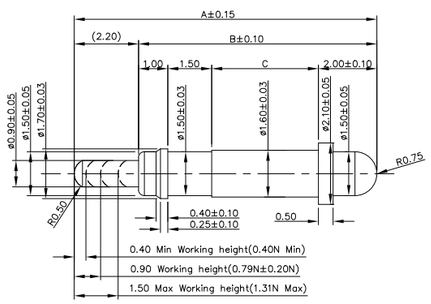
PN: P2631PH03

Length:	9.30 mm
Working Height:	8.30 mm
Current:	2 Amps
Contact Resistance:	100 mΩ
Spring Force:	80g±20g



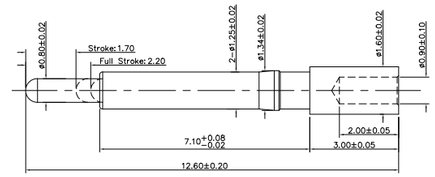
PN: P6123PH03

Length:	9.50 mm
Working Height:	8.10 mm
Current:	5 Amps
Contact Resistance:	50 mΩ
Spring Force:	180g±20%



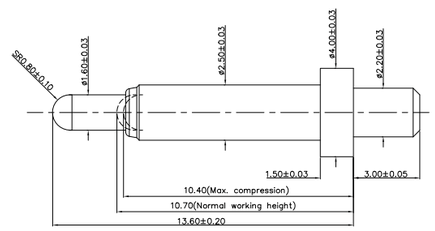
PN: P2683PH09

Length:	10.05 mm
Working Height:	0.90 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	60g±20g



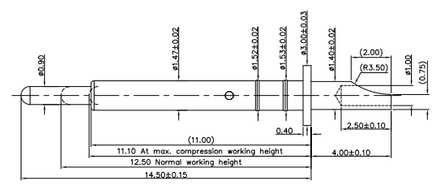
PN: P5773PH02

Length:	12.60 mm
Working Height:	2.20 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	80g±20g



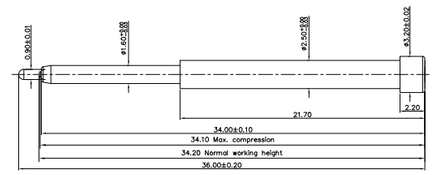
PN: P2783PH01

Length:	13.60 mm
Working Height:	10.70 mm
Current:	5 Amps
Contact Resistance:	50 mΩ
Spring Force:	90g±20g



PN: P3737SH01

Length:	14.50 mm
Working Height:	12.50 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	100g±20%

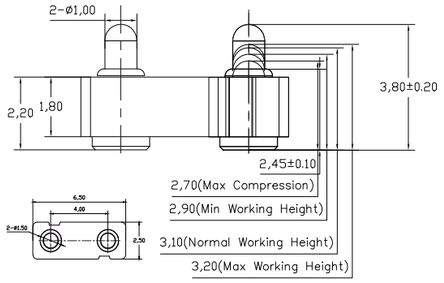


PN: P2977FH01

Length:	36.00 mm
Working Height:	34.20 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	100g±20%

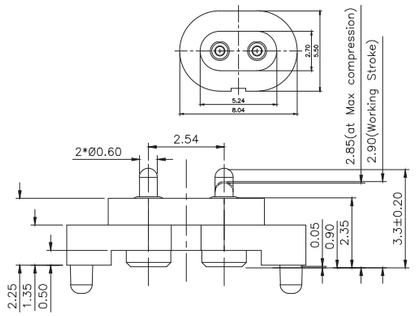
NON STANDARD CONNECTOR

2 PINS



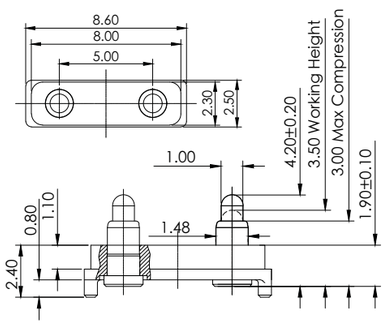
PN: F1106AA01-02A400MR

Length:	3.80 mm
Working Height:	3.10 mm
Pitch:	4.00 mm
Current:	1 Amps
Contact Resistance:	100 mΩ
Spring Force:	90g±20%



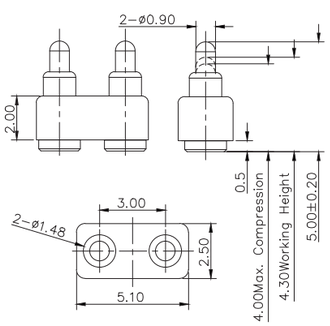
PN: P3013MF01-02F254MR

Length:	3.30 mm
Working Height:	2.90 mm
Pitch:	2.54 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	100g±20g



PN: F969AA01-02A500MR

Length:	4.20 mm
Working Height:	3.50 mm
Pitch:	5.00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	100g±20%

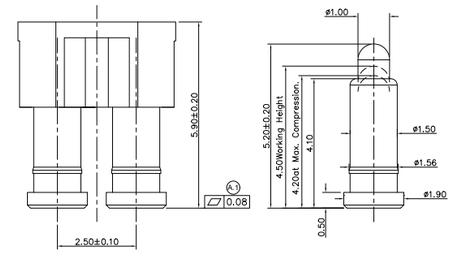


PN: P3708MF01-02F300MR

Length:	5.00 mm
Working Height:	4.30 mm
Pitch:	3.00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	60g±20g

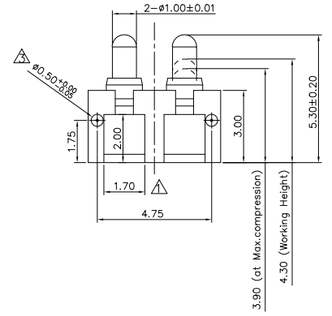
NON STANDARD CONNECTOR

2 PINS



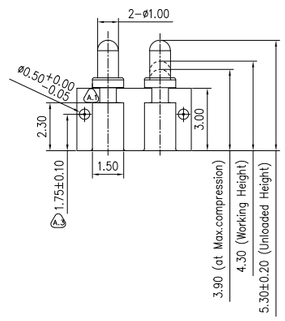
PN: F1835AA01-02A250CR

Length:	5.20 mm
Working Height:	4.50 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	60g±20g



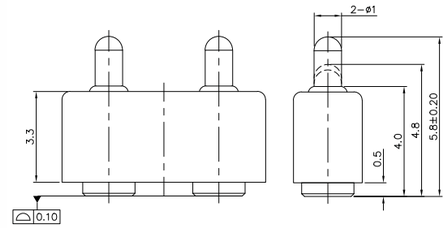
PN: H020M0-H02B250R

Length:	5.30 mm
Working Height:	4.30 mm
Pitch:	2.50 mm
Current:	2.5 Amps
Contact Resistance:	100 mΩ
Spring Force:	120g±20%



PN: H036M0-H02C250R

Length:	5.30 mm
Working Height:	4.30 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	120g±20%

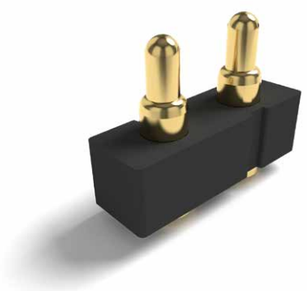


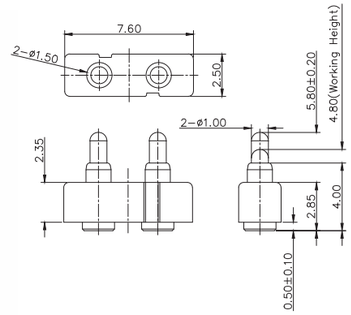
PN: N005M4-02A400HR

Length:	5.80 mm
Working Height:	4.80 mm
Pitch:	4.00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	110g±20%

NON STANDARD CONNECTOR

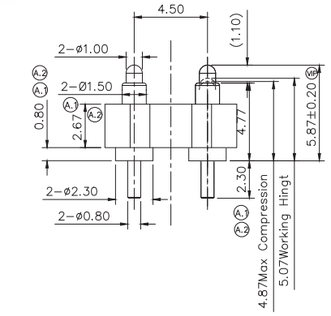
2 PINS





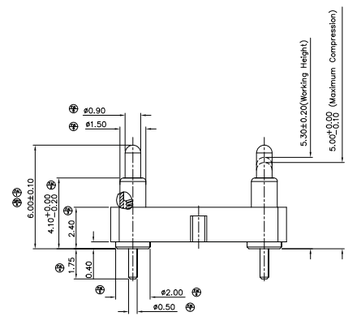
PN: N005M4-02C350MR

Length:	5.80 mm
Working Height:	4.80 mm
Pitch:	3.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	110g±20%



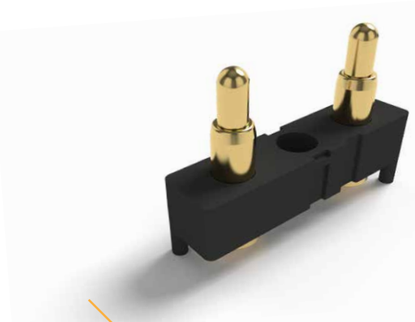
PN: P2688MP01-02G450MR

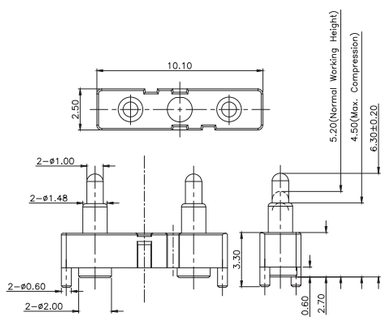
Length:	5.87 mm
Working Height:	5.07 mm
Pitch:	4.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	110g±20%



PN: P3721MP01-02A762HR

Length:	6.00 mm
Working Height:	5.30 mm
Pitch:	2.54 mm
Current:	2.5 Amps
Contact Resistance:	30 mΩ
Spring Force:	50g±20%



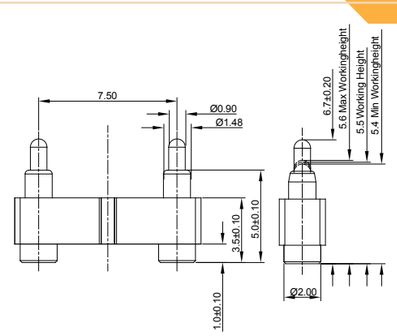


PN: P3037MF01-03A300HB

Length:	6.30 mm
Working Height:	5.20 mm
Pitch:	6.00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	110g±20%

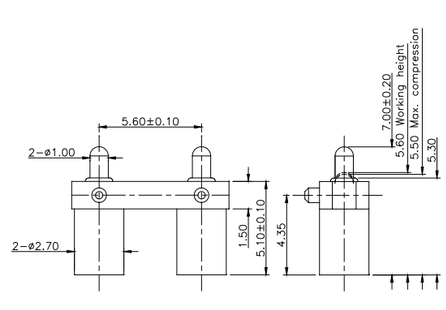
NON STANDARD CONNECTOR

2 PINS



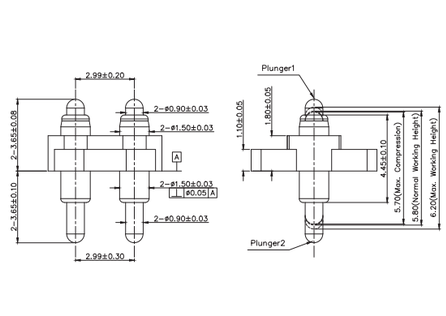
PN: F1615AA02-04B250MR

Length:	6.70 mm
Working Height:	5.50 mm
Pitch:	7.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	110g±20%



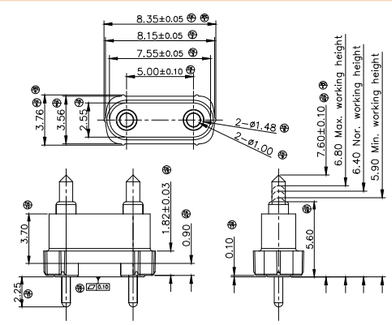
PN: P2723MF01-03B280HB

Length:	7.00 mm
Working Height:	5.60 mm
Pitch:	5.60 mm
Current:	3 Amps
Contact Resistance:	50 mΩ
Spring Force:	130g±25%



PN: P5121MD10-02A324HB

Length:	7.30 mm
Working Height:	5.80 mm
Pitch:	2.99 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	85g±15g

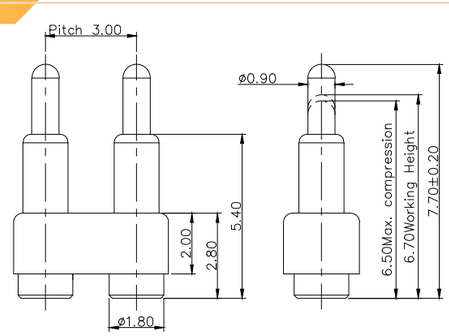


PN: P2388MP10-02G500HR

Length:	7.60 mm
Working Height:	6.40 mm
Pitch:	5.00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	120g±20%

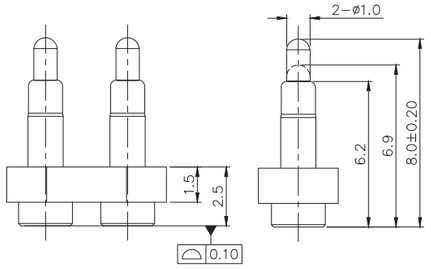
NON STANDARD CONNECTOR

2 PINS



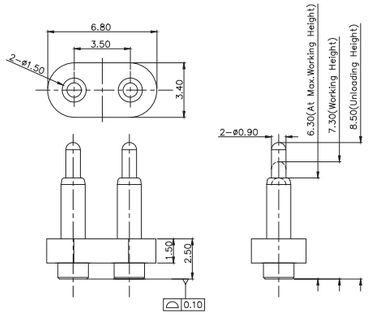
PN: F259AA02-02300MR

Length:	7.70 mm
Working Height:	6.70 mm
Pitch:	3.00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	60g ± 20%



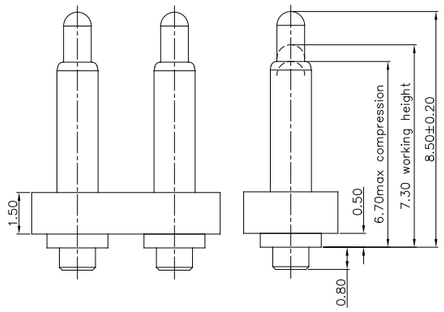
PN: N001M2-02D350MR

Length:	8.00 mm
Working Height:	6.90 mm
Pitch:	3.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	65g ± 20%



PN: H015M1-02D350MR

Length:	8.50 mm
Working Height:	7.30 mm
Pitch:	3.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	100g ± 20g

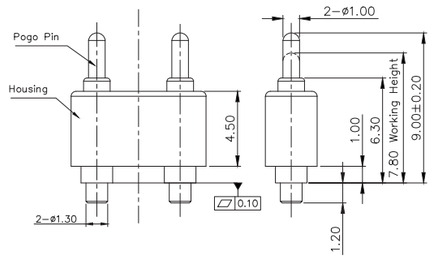


PN: P1089AA01-02D350MR

Length:	8.50 mm
Working Height:	7.30 mm
Pitch:	3.50 mm
Current:	1.5 Amps
Contact Resistance:	50 mΩ
Spring Force:	120g ± 20%

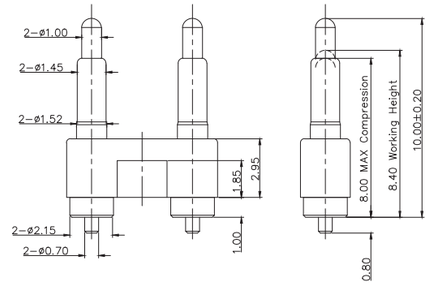
NON STANDARD CONNECTOR

2 PINS



PN: N002M10-02B500HR

Length:	9.00 mm
Working Height:	7.80 mm
Pitch:	5.00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	100g ± 20g

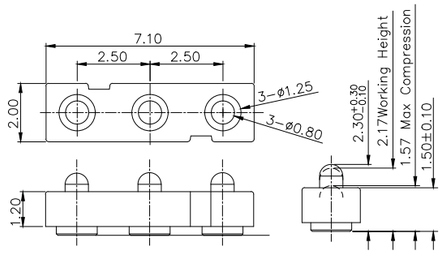


PN: P2780MF01-02A508MR

Length:	10.00 mm
Working Height:	8.40 mm
Pitch:	5.08 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	100g ± 20%

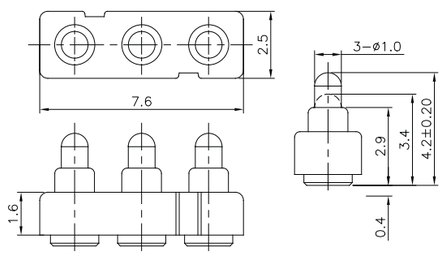
NON STANDARD CONNECTOR

3 PINS



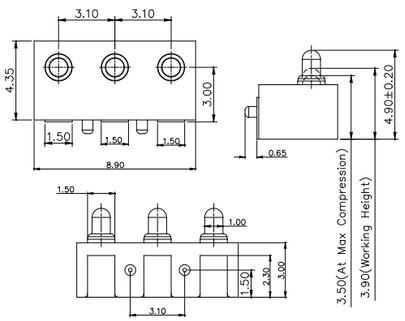
PN: F1106AA01-02A400MR

Length:	2.30 mm
Working Height:	2.17 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	80g±20%



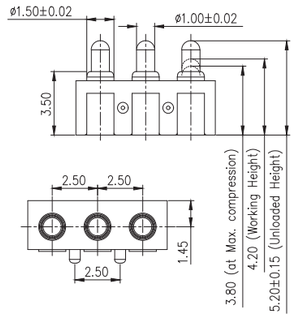
PN: N103M5-03G250MR

Length:	4.20 mm
Working Height:	3.40 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	120g±20%



PN: H003M7-H03A310R

Length:	4.90 mm
Working Height:	3.90 mm
Pitch:	3.10 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	120g±20%

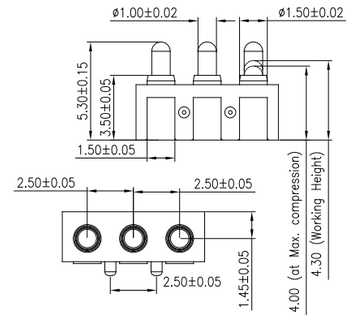


PN: H003M1-H03B250RR

Length:	5.20 mm
Working Height:	4.20 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	120g±20%

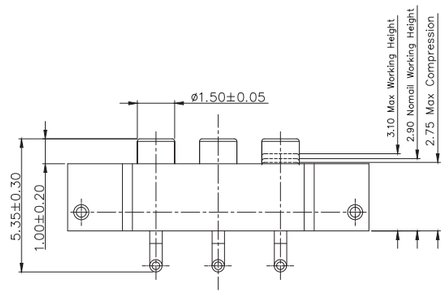
NON STANDARD CONNECTOR

3 PINS



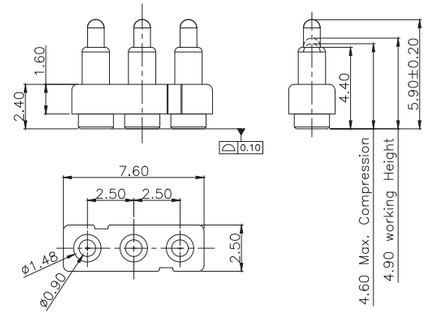
PN: H003M3-H03B250R

Length:	5.30 mm
Working Height:	4.30 mm
Pitch:	2.50 mm
Current:	1 Amps
Contact Resistance:	50 mΩ
Spring Force:	120g±20%



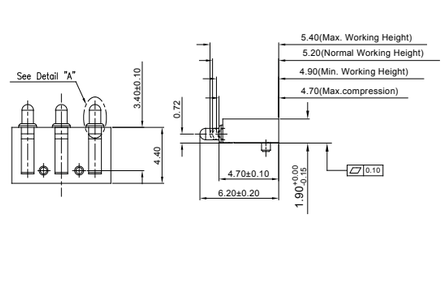
PN: P3309MF01-03R250MR

Length:	5.30 mm
Working Height:	3.10 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	100g±20%



PN: F515AA01-03250MR

Length:	5.90 mm
Working Height:	4.90 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	120g±20%

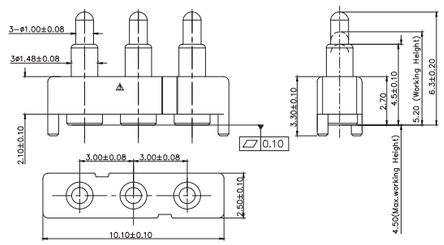


PN: R175AA09-03265HR

Length:	6.20 mm
Working Height:	5.20 mm
Pitch:	4.90 mm
Current:	2.5 Amps
Contact Resistance:	50 mΩ
Spring Force:	120g±20%

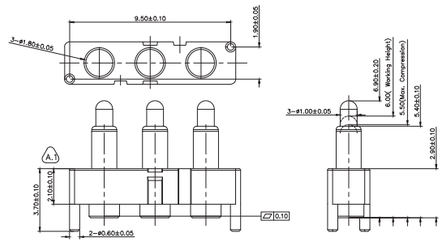
NON STANDARD CONNECTOR

3 PINS



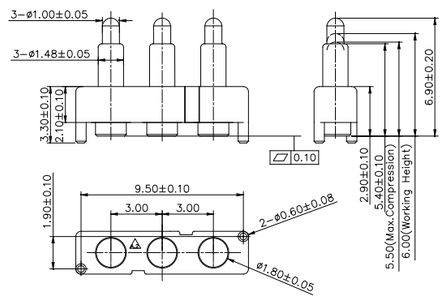
PN: H179M0-03A300MR

Length:	6.30 mm
Working Height:	5.20 mm
Pitch:	3.00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	110g±20%



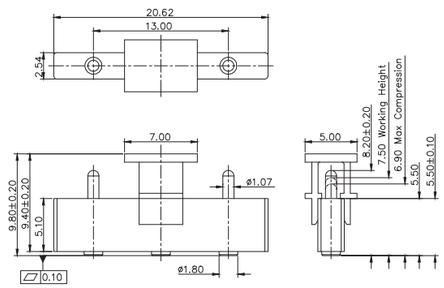
PN: F1767AA01-03A300MR

Length:	6.90 mm
Working Height:	6.00 mm
Pitch:	3 .00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	100g±20%



PN: N042M4-03A300MR

Length:	6.90 mm
Working Height:	6.0 0 mm
Pitch:	3.00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	60g±20g

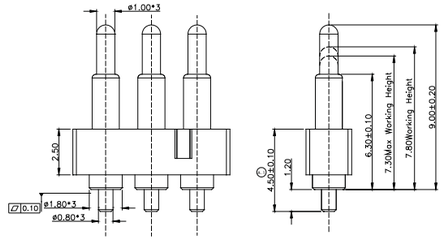


PN: F1712AA02-03D650MR

Length:	8.20 mm
Working Height:	7.50 mm
Pitch:	6.50 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	85g±20%

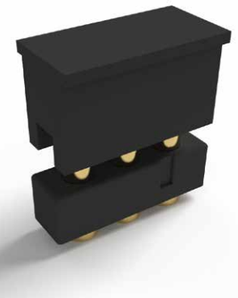
NON STANDARD CONNECTOR

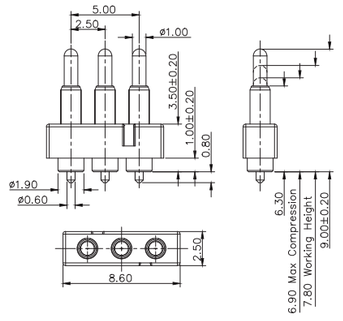
3 PINS



PN: P1500AA01-03C250MR

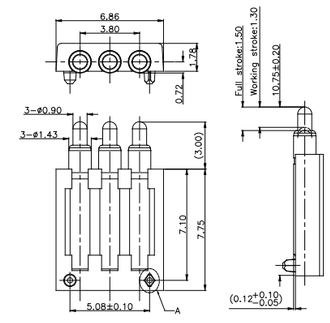
Length:	9.00 mm
Working Height:	7.80 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	6 0g±20%





PN: P2223MP01-03C250MR

Length:	9.00 mm
Working Height:	7.80 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	100g±20%

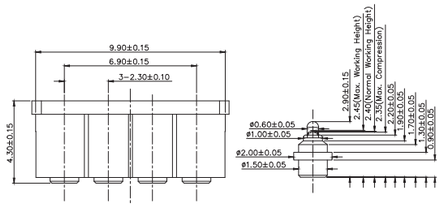


PN: R1332AA01-03B190RR

Length:	10.75 mm
Working Height:	9.45 mm
Pitch:	1.90 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	110g±20%

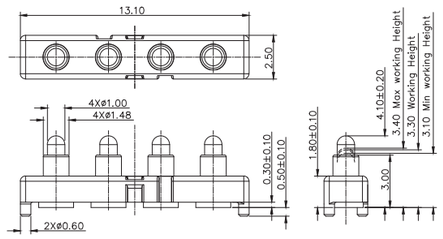
NON STANDARD CONNECTOR

4 PINS



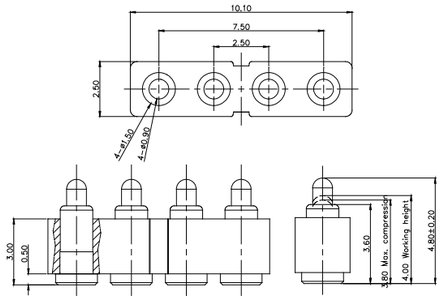
PN: P5331MF02-04A230CR

Length:	2.90 mm
Working Height:	2.40 mm
Pitch:	2.30 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	75g±15g



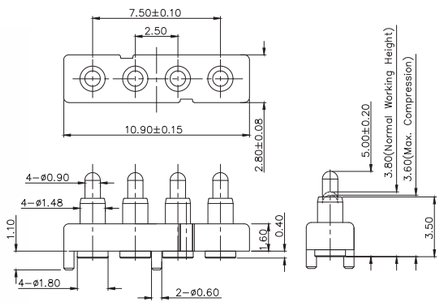
PN: F1853AA02-04F300MR

Length:	4.10 mm
Working Height:	3.30 mm
Pitch:	3.00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	80g±20%



PN: P3063MF01-04B250MR

Length:	4.80 mm
Working Height:	4.00 mm
Pitch:	2.50 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	90g±20%

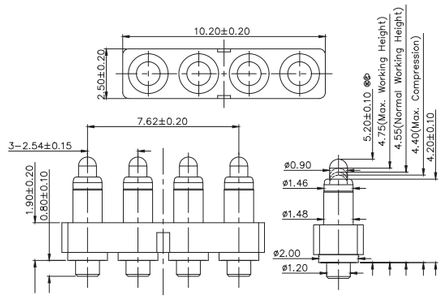


PN: P2808MF01-04D250MR

Length:	5.00 mm
Working Height:	3.80 mm
Pitch:	2.50 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	90g±20g

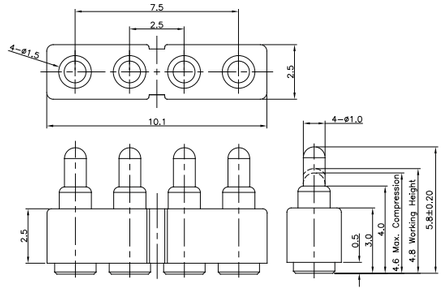
NON STANDARD CONNECTOR

4 PINS



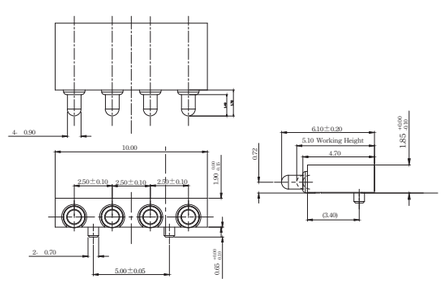
PN: P3859MP01-04A254MR

Length:	5.20 mm
Working Height:	4.55 mm
Pitch:	2.54 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	55g±10g



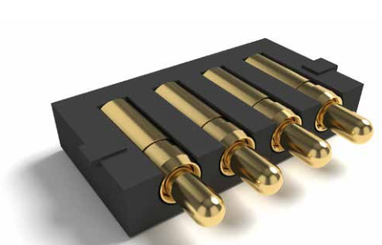
PN: N005M4-04B250MR

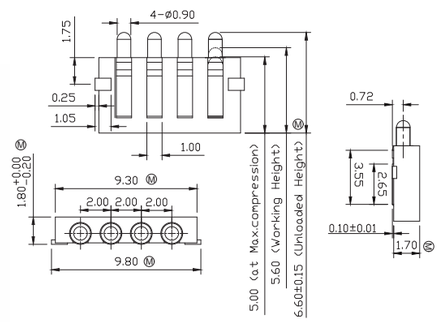
Length:	5.80 mm
Working Height:	4.80 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	110g±20%



PN: R175AA00-04250RR

Length:	6.10 mm
Working Height:	5.10 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	110g±20%



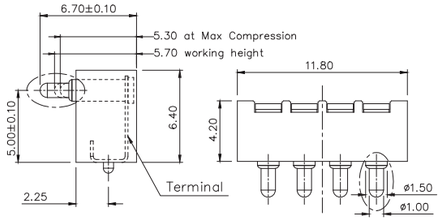


PN: H016M0-H04A200R

Length:	6.60 mm
Working Height:	5.60 mm
Pitch:	2.00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	110g±20%

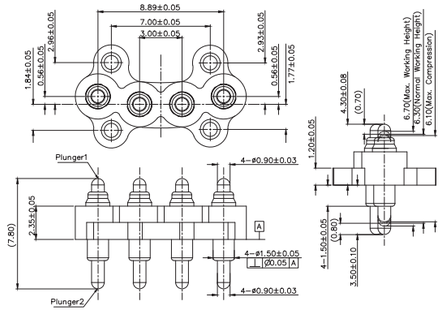
NON STANDARD CONNECTOR

4 PINS



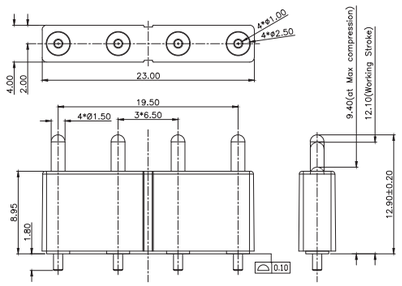
PN: R035AA05-04250RR

Length:	6.70 mm
Working Height:	5.70 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	120g±20%



PN: P5751MD01-04A300HB

Length:	7.80 mm
Working Height:	6.30 mm
Pitch:	3.00 mm
Current:	1 Amp
Contact Resistance:	30 mΩ
Spring Force:	85g±15g

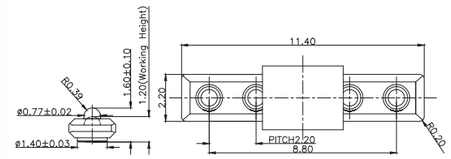


PN: P3136MP01-04B650MR

Length:	12.90 mm
Working Height:	12.10 mm
Pitch:	6.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	105g±20g

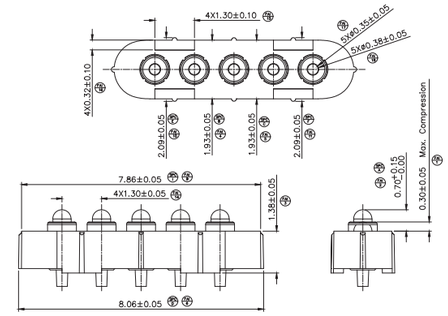
NON STANDARD CONNECTOR

5 PINS



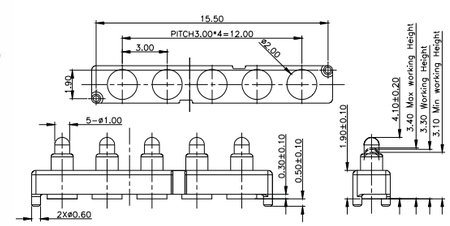
PN: F254AA01-05220MR

Length:	1.60 mm
Working Height:	1.20 mm
Pitch:	2.20 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	60g±20g



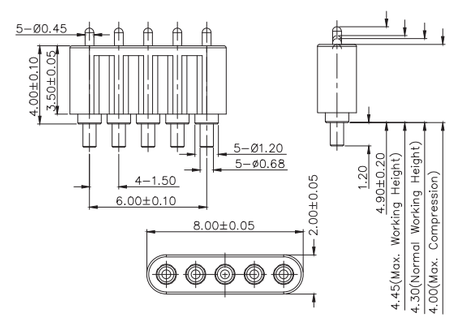
PN: P2288MP02-05A130HR

Length:	2.08 mm
Working Height:	1.68 mm
Pitch:	1.30 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	100g±20g



PN: F1853AA01-05H300MR

Length:	4.10 mm
Working Height:	3.30 mm
Pitch:	3.00 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	80g±20%

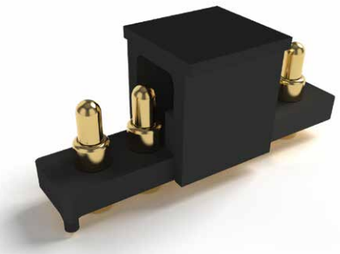


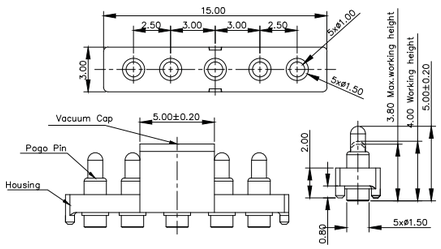
PN: P3710MP01-05A150HB

Length:	4.90 mm
Working Height:	4.30 mm
Pitch:	1.50 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	110g±20%

NON STANDARD CONNECTOR

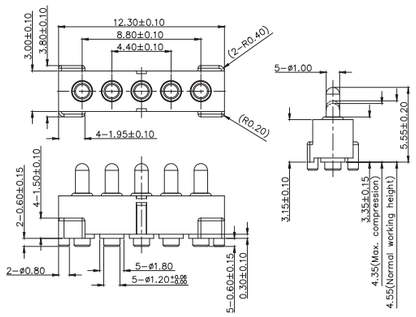
5 PINS





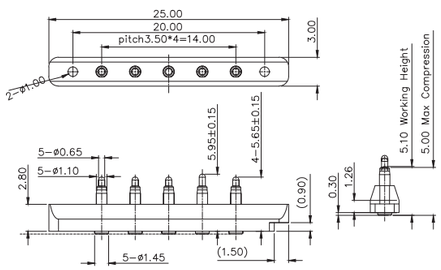
PN: F1371AA01-05A250MR

Length:	5.00 mm
Working Height:	4.00 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	80g±20g



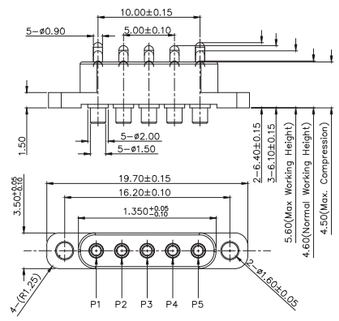
PN: P2761MP01-05E220MR

Length:	5.55 mm
Working Height:	4.55 mm
Pitch:	2.20 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	80g±20g



PN: P5362MF01-05A350MR

Length:	5.65 / 5.95 mm
Working Height:	5.10 mm
Pitch:	3.50 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	70g±20g

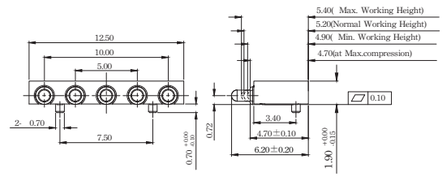


PN: P2673MF02-05R250HT

Length:	6.10 / 6.41 mm
Working Height:	4.60 mm
Pitch:	2.50 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	150g±20%

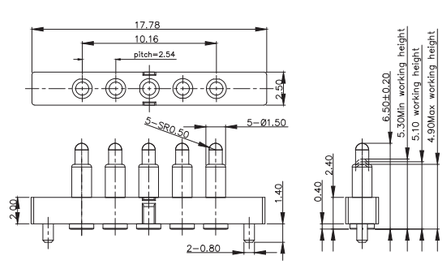
NON STANDARD CONNECTOR

5 PINS



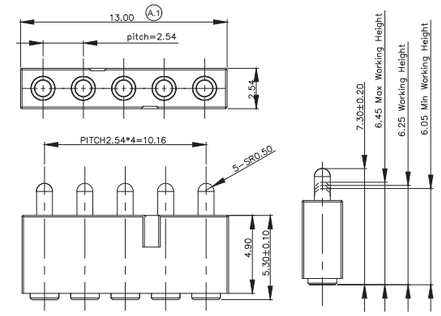
PN: R175AA05-05250RR

Length:	6.20 mm
Working Height:	5.20 mm
Pitch:	2.50 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	120g±20%



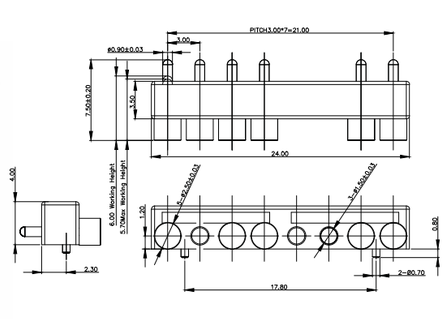
PN: P2037MF01-05J254MR

Length:	6.50 mm
Working Height:	5.10 mm
Pitch:	2.54 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	90g±20%



PN: P2315MF01-05L254MR

Length:	7.30 mm
Working Height:	6.25 mm
Pitch:	2.54 mm
Current:	5 Amps
Contact Resistance:	20 mΩ
Spring Force:	80g±20%

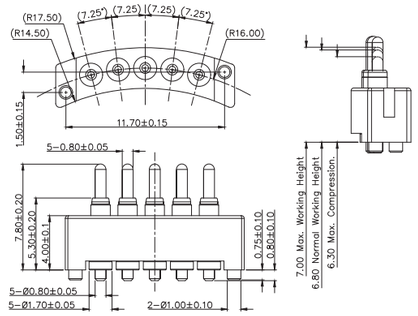


PN: F1601AA05-08G300HB

Length:	7.50 mm
Working Height:	6.00 mm
Pitch:	3.00 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	120g±20%

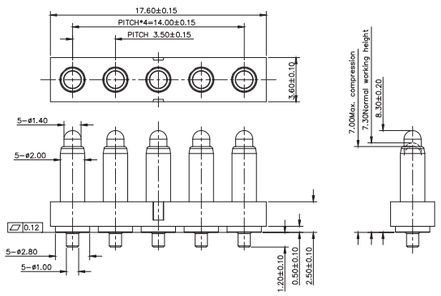
NON STANDARD CONNECTOR

5 PINS



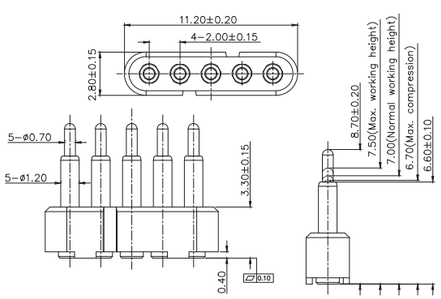
PN: P2698MP03-05A202MR

Length:	7.80 mm
Working Height:	6.80 mm
Pitch:	2.02 mm
Current:	2 Amps
Spring Force:	30g±10g



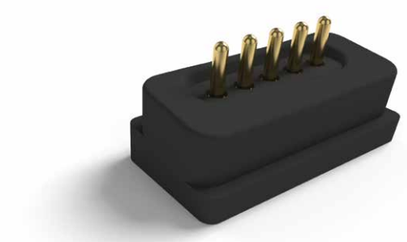
PN: P2811MP01-05E350MR

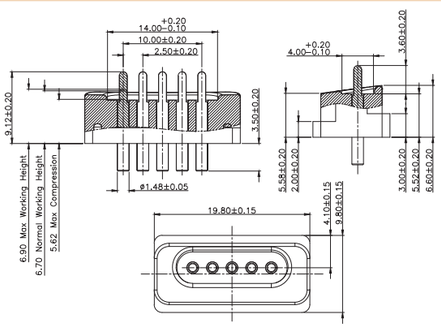
Length:	8.30 mm
Working Height:	7.30 mm
Pitch:	3.50 mm
Current:	3 Amps
Contact Resistance:	50 mΩ
Spring Force:	95g±20g



PN: P6287MF02-05A200MR

Length:	8.70 mm
Working Height:	7.00 mm
Pitch:	2.00 mm
Current:	3~5 Amps
Contact Resistance:	50 mΩ
Spring Force:	120g±20%



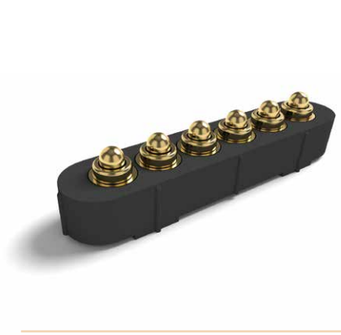


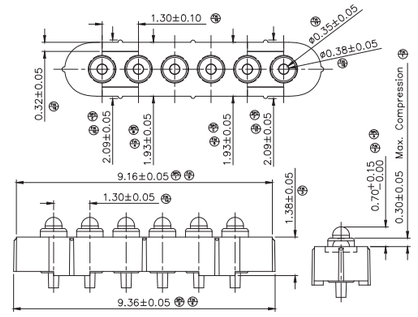
PN: P3117MF01-05U250HT

Length:	9.12 mm
Working Height:	6.70 mm
Pitch:	2.50 mm
Current:	1 Amp
Spring Force:	100g±20g

NON STANDARD CONNECTOR

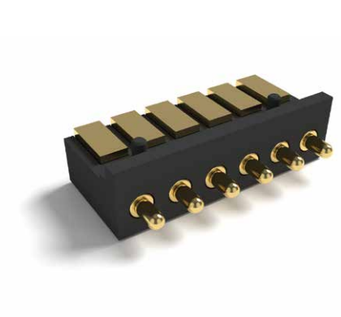
6 PINS

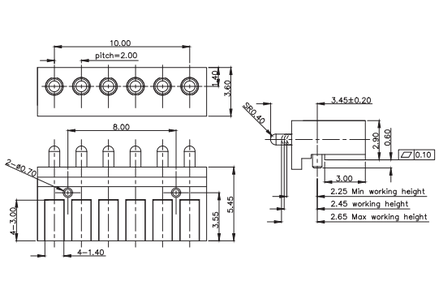




PN: P2288MP02-06B130HR

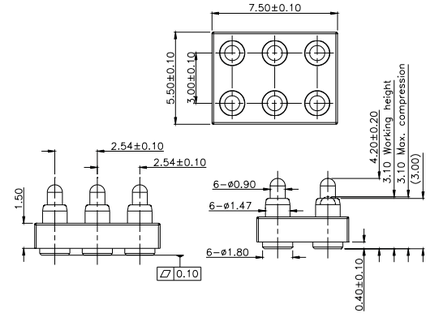
Length:	2.08 mm
Working Height:	1.68 mm
Pitch:	1.30 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	50g±20g





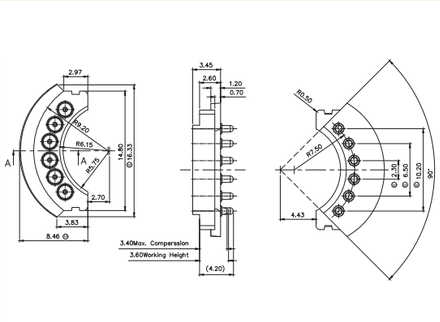
PN: P2526MR01-06F200HR

Length:	3.45 mm
Working Height:	2.45 mm
Pitch:	2.00 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	70g±20%



PN: P3004MF01-06A300HR

Length:	4.20 mm
Working Height:	3.10 mm
Pitch:	2.54 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	80g±20%

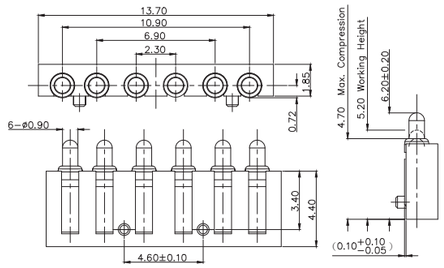


PN: P2106MP01-06B230HR

Length:	4.20 mm
Working Height:	3.60 mm
Pitch:	1.85 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	90g±20%

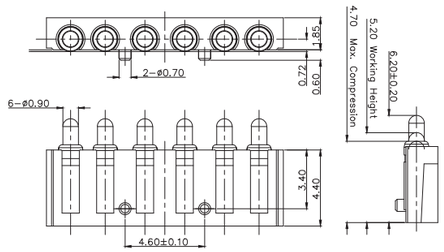
NON STANDARD CONNECTOR

6 PINS



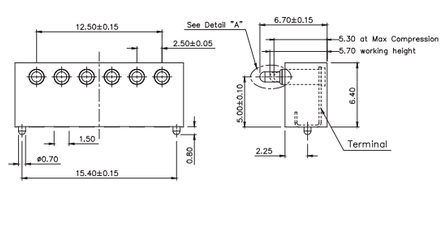
PN: R175AA05-06B200RR

Length:	6.20 mm
Working Height:	5.20 mm
Pitch:	2.30 mm
Current:	1.5 Amps
Contact Resistance:	50 mΩ
Spring Force:	120g±20%



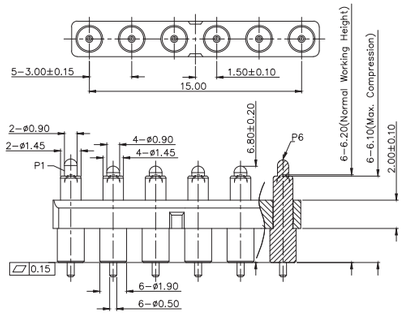
PN: R175AA08-06B200RR

Length:	6.20 mm
Working Height:	5.20 mm
Pitch:	2.30 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	120g±20%



PN: R035AA06-06250RR

Length:	6.70 mm
Working Height:	5.70 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	120g±20%

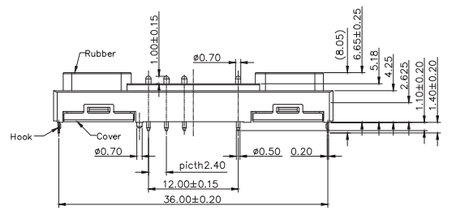


PN: P3588MP02-06B300MR

Length:	6.80 / 7.30 mm
Working Height:	6.20 mm
Pitch:	3.00 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	110g±20%

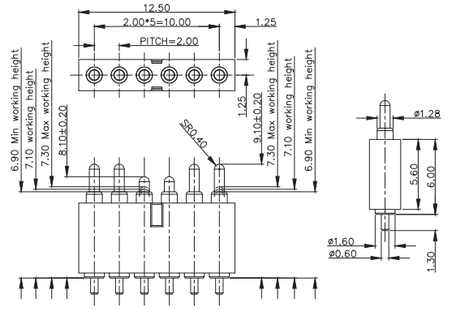
NON STANDARD CONNECTOR

6 PINS



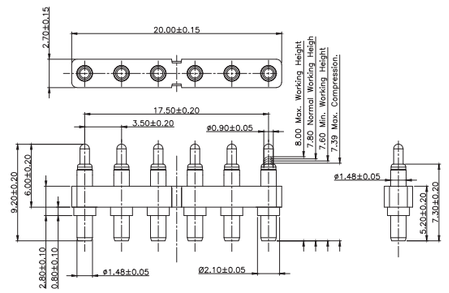
PN: P2197MP01-06C240MR

Length:	7.28 mm
Working Height:	6.48 mm
Pitch:	2.40 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	90g±20%



PN: P2294MP01-06E200MR

Length:	8.10 / 9.10 mm
Working Height:	7.10 mm
Pitch:	2.00 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	70g±20%

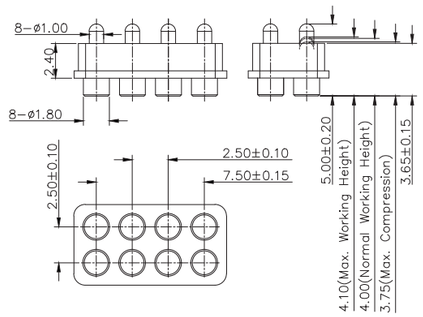


PN: P3783MP01-06L350MR

Length:	9.20 mm
Working Height:	7.80 mm
Pitch:	3.50 mm
Current:	5 Amps
Contact Resistance:	50 mΩ
Spring Force:	100g±20g

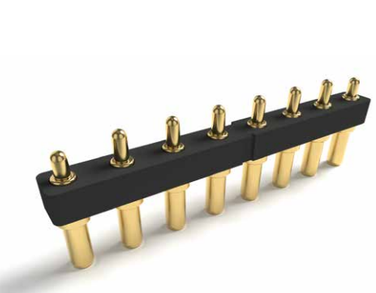
NON STANDARD CONNECTOR

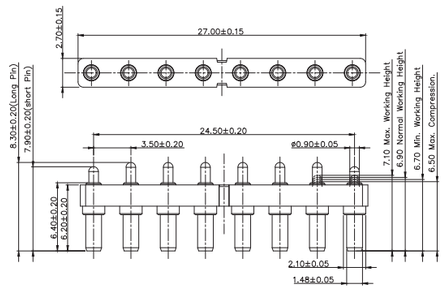
8 PINS



PN: P3728MF01-08P250HR

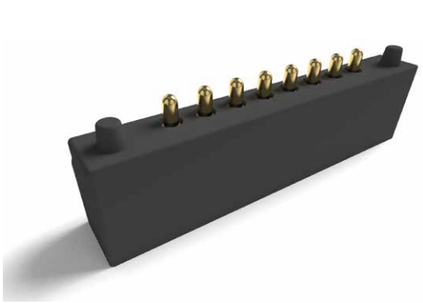
Length:	5.00 mm
Working Height:	4.00 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	80g±20g

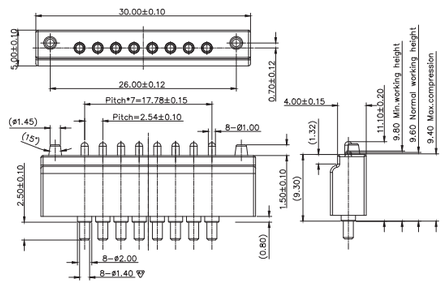




PN: P2613MP01-08E350MR

Length:	7.90 / 8.30 mm
Working Height:	6.90 mm
Pitch:	3.50 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	110g±20g



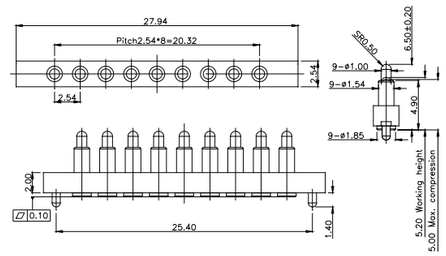


PN: P1933AA01-08C254HT

Length:	11.10 mm
Working Height:	9.60 mm
Pitch:	2.54 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	120g±20%

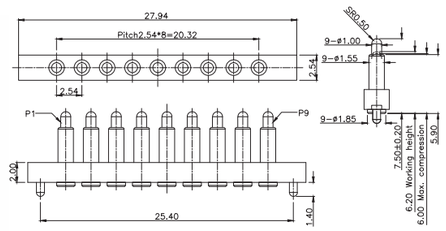
NON STANDARD CONNECTOR

9-12 PINS



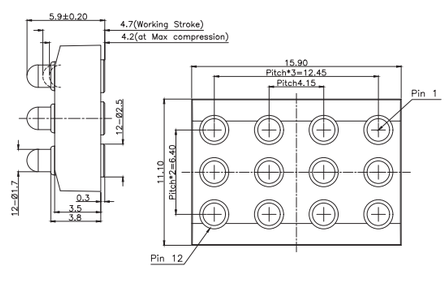
PN: P2839MF01-09F254MR

Length:	6.50 mm
Working Height:	5.20 mm
Pitch:	2.54 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	100g±20%



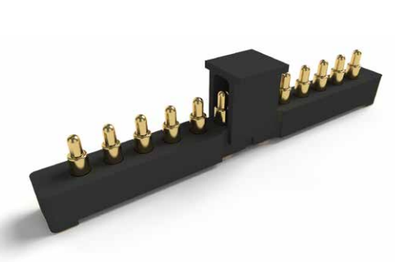
PN: P2879MF01-09F254MR

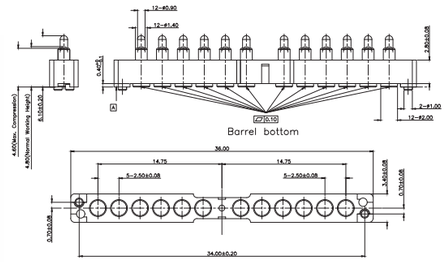
Length:	7.50 mm
Working Height:	6.20 mm
Pitch:	2.54 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	100g±20%



PN: P2976MF01-12A415HR

Length:	5.90 mm
Working Height:	4.70 mm
Pitch:	3.20 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	110g±20g



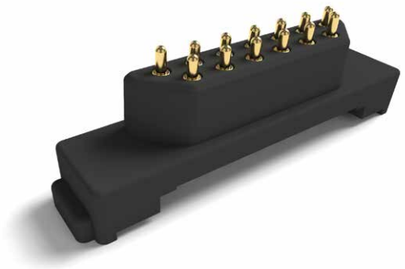


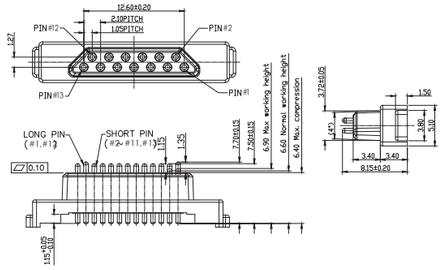
PN: P3303MF01-12A250MR

Length:	6.10 mm
Working Height:	4.80 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	60g±20g

NON STANDARD CONNECTOR

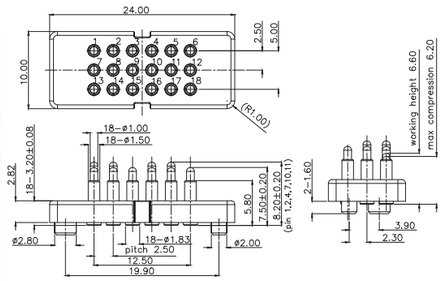
12-18 PINS





PN: P1179AA17-13B210HR

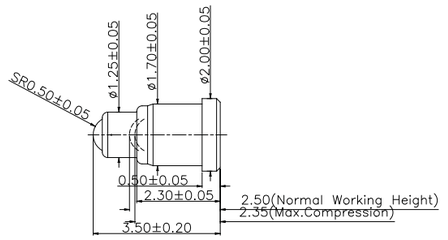
Length:	7.50 / 7.70 mm
Working Height:	6.60
Pitch:	1.05 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	140g ± 20%



PN: P3673MF01-18A250MR

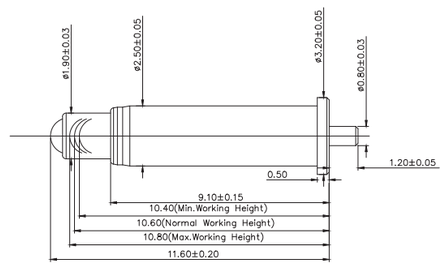
Length:	7.50 / 8.20 mm
Working Height:	6.60 mm
Pitch:	2.50 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	130g ± 20g

BALL POINT CONNECTOR



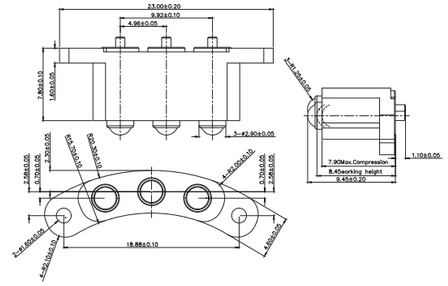
PN: P5079FP01

Length:	3.50 mm
Working Height:	2.50 mm
Current:	2 Amps
Contact Resistance:	100 mΩ
Spring Force:	60g ± 15g
Durability:	2,000



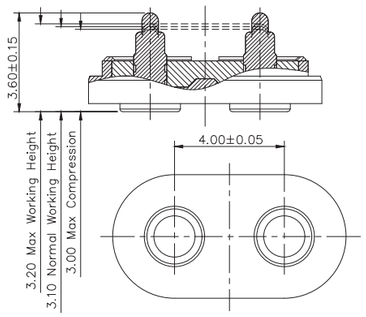
PN: P6353PP02

Length:	11.60 mm
Working Height:	10.60 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	90g ± 20g
Durability:	10,000



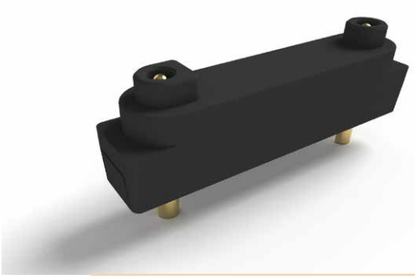
PN: P5982MP05-03C500HR

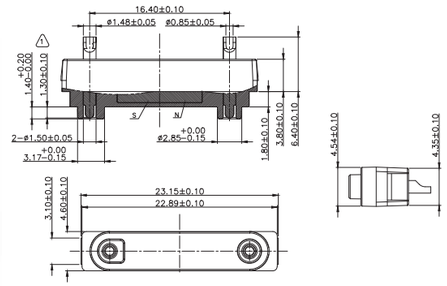
Length:	9.45 mm
Working Height:	8.45 mm
Pitch:	4.96 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	60g ± 15g
Durability:	200,000



PN: P5562MP01-02B400HB

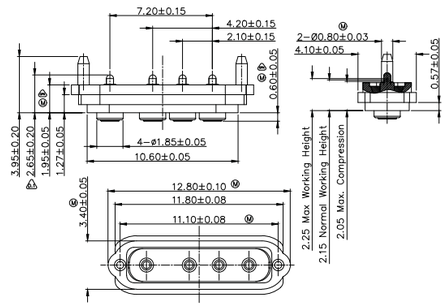
Length:	3.60 mm
Working Height:	3.10 mm
Pitch:	4.00 mm
Current:	1 Amps
Contact Resistance:	100 mΩ
Spring Force:	80g±20g
IP Factor:	IPX8





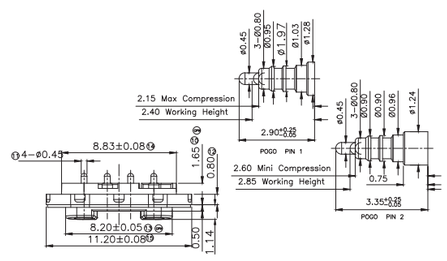
PN: P2859MS01-02B164HT

Length:	9.60 mm
Working Height:	9.50 mm
Pitch:	16.40 mm
Current:	5 Amps
Contact Resistance:	50 mΩ
Spring Force:	110g±20%
IP Factor:	IPX7



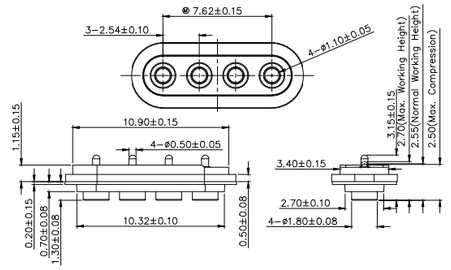
PN: P5320MF01-04A210HT

Length:	2.65 mm
Working Height:	2.15 mm
Pitch:	2.10 mm
Current:	1.5 Amps
Contact Resistance:	50 mΩ
Spring Force:	80g±20g
IP Factor:	IPX7



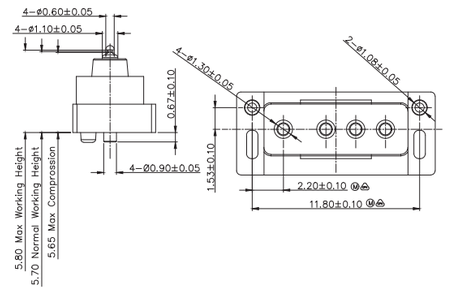
PN: P2988MM03-04C180HB

Length:	2.90 / 3.35 mm
Working Height:	2.40 / 2.85 mm
Pitch:	1.80 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	60g±20g



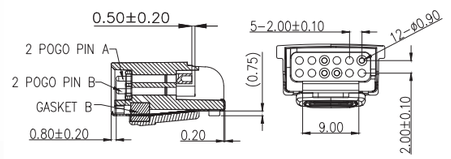
PN: P5875MF01-04A250HT

Length:	3.15 mm
Working Height:	2.55 mm
Pitch:	2.54 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	75g±20g
IP Factor:	IPX7



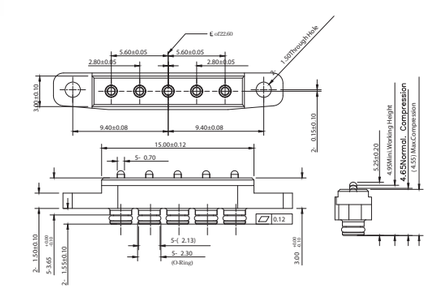
PN: P3613MP05-04A210MR

Length:	6.13 mm
Working Height:	5.70 mm
Pitch:	2.10 mm
Current:	1 Amp
Contact Resistance:	50 mΩ
Spring Force:	50g±15g



PN: F047AA00-04200ST

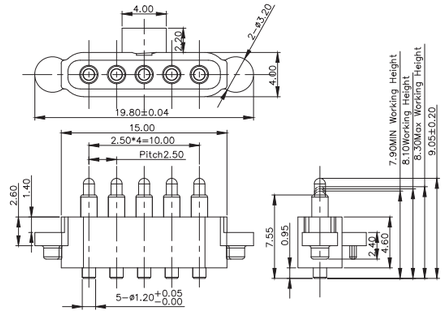
Length:	18.00 mm
Working Height:	17.50 mm
Pitch:	2.0 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	80g±20%



PN: P2352MF01-05A280HT

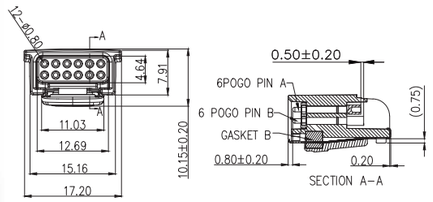
Length:	5.25 mm
Working Height:	4.95 mm
Pitch:	2.80 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	95g±20%

WATERPROOF CONNECTOR



PN: P3608MP01-05A250MR

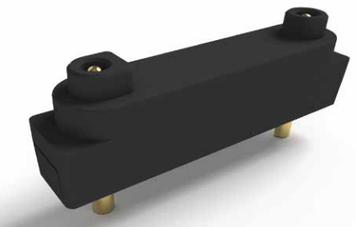
Length:	9.05 mm
Working Height:	8.10 mm
Pitch:	2.50 mm
Current:	2 Amps
Contact Resistance:	50 mΩ
Spring Force:	90g±20%
IP Factor:	IPX7

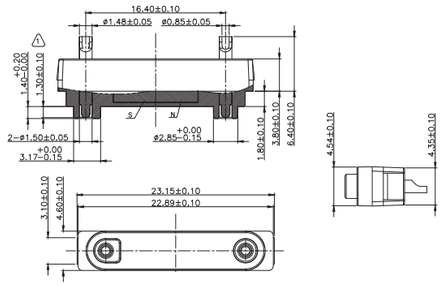


PN: F047AA00-12200ST

Length:	18.00 mm
Working Height:	17.50 mm
Pitch:	2.0 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	80g±20%

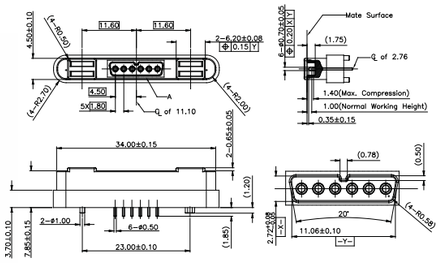
MAGNETIC CONNECTOR





PN: P2859MS01-02B164HT

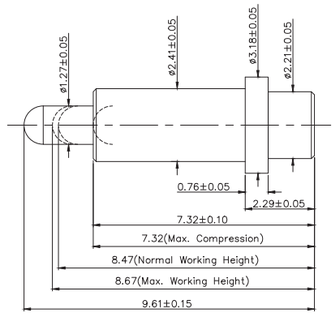
Length:	9.60 mm
Working Height:	9.50 mm
Pitch	16.40 mm
Current:	5 Amps
Contact Resistance:	50 mΩ
Spring Force:	110g±20%
IP Factor:	IPX7



PN: P2578MP01-06C180HT

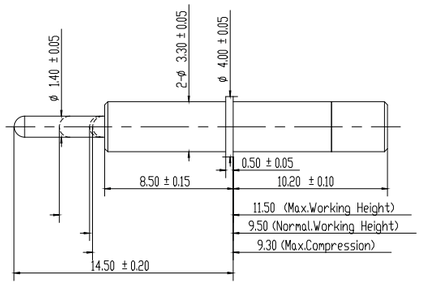
Length:	9.70 mm
Working Height:	8.70 mm
Pitch	1.80 mm
Current:	3 Amps
Contact Resistance:	50 mΩ
Spring Force:	70g±20g

HIGH CURRENT CONNECTOR



PN: P5650FH01

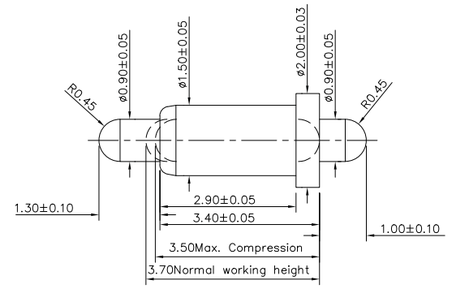
Length:	9.61 mm
Working Height:	8.47 mm
Current:	9 Amps
Contact Resistance:	30 mΩ
Spring Force:	100g±20%



PN: P07408PH1

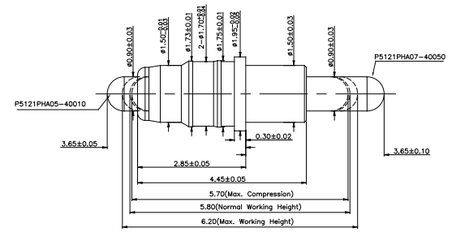
Length:	14.50 mm
Working Height:	9.50 mm
Current:	12 Amps
Contact Resistance:	50 mΩ
Spring Force:	150g±20%

DOUBLE ENDED PIN



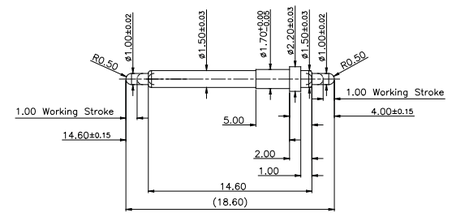
PN: P2573DP01

Length:	5.70 mm
Working Height:	3.70 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	100g±20%



PN: P5650FH01

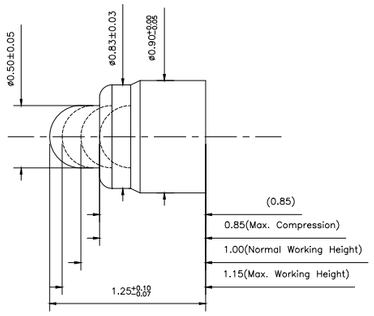
Length:	7.30 mm
Working Height:	5.80 mm
Current:	2 Amps
Contact Resistance:	30 mΩ
Spring Force:	85g±15g



PN: D406AA01

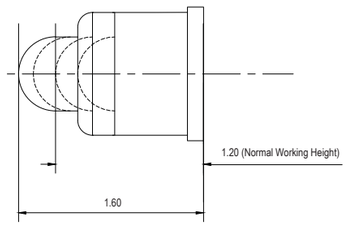
Length:	18.60 mm
Working Height:	16.60 mm
Current:	1 Amp
Contact Resistance:	100 mΩ
Spring Force:	60 g±20%

ULTRA SMALL PIN



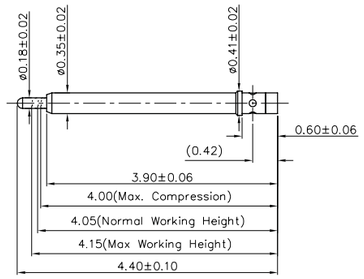
PN: P6925FP03

Length:	1.25 mm
Working Height:	1.00 mm
Current:	300m Amp
Contact Resistance:	100 mΩ
Spring Force:	35g±20%



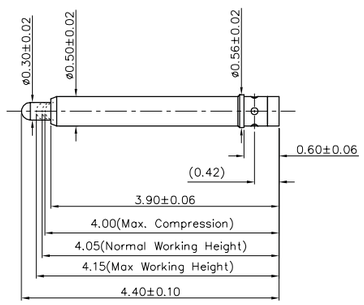
PN: F254AA01

Length:	1.60 mm
Working Height:	1.20 mm
Current:	300m Amp
Contact Resistance:	100 mΩ
Spring Force:	40g±20%



DE4-035DG37-01C1

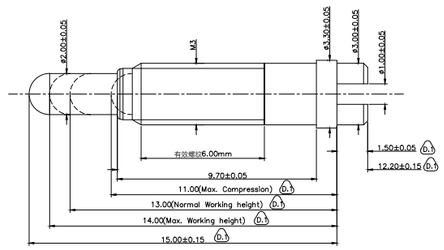
Length:	4.40 mm
Working Height:	4.05 mm
Current:	1.5 Amp
Contact Resistance:	50 mΩ
Spring Force:	25g±20%



DE4-050DG37-01C1

Length:	4.40 mm
Working Height:	4.05 mm
Current:	2 Amp
Contact Resistance:	50 mΩ
Spring Force:	35g±20%

SCREW PIN



PN: P07417PH1

Length:	15.00 mm
Working Height:	13.00 mm
Current:	1 Amps
Contact Resistance:	50 mΩ
Spring Force:	250g±20%

VERIFICATION ABILITY

Testing Items

Environmental

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

Electrical

- Contact Resistance
- Insulation
- HIPOT
- Rated Current

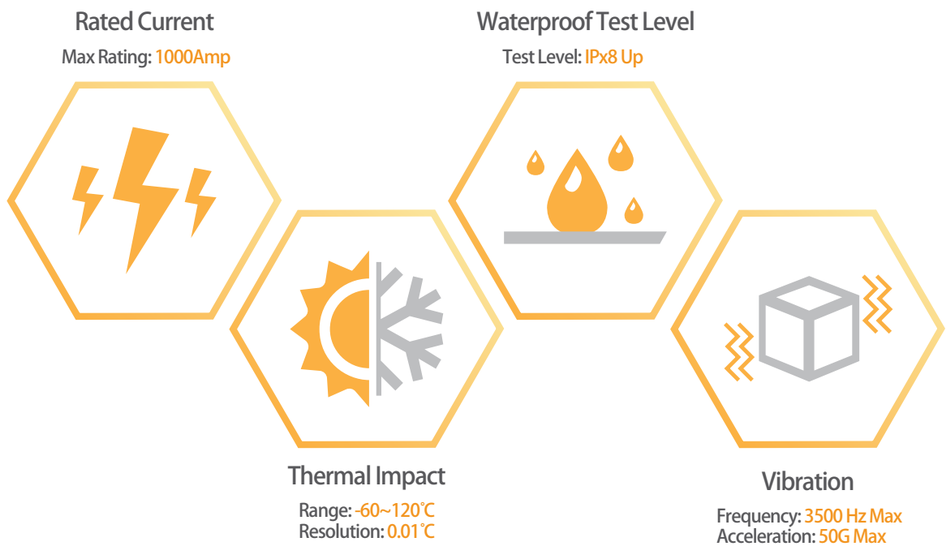
Mechanical

- Retention Force
- Life Cycle
- Vibration
- Mechanical Shock

Other

- Drop
- Soldering Side Force
- Solderability

Testing Equipment



QUALITY MANAGEMENT

ISO 9001: 2015
Quality Management Systems

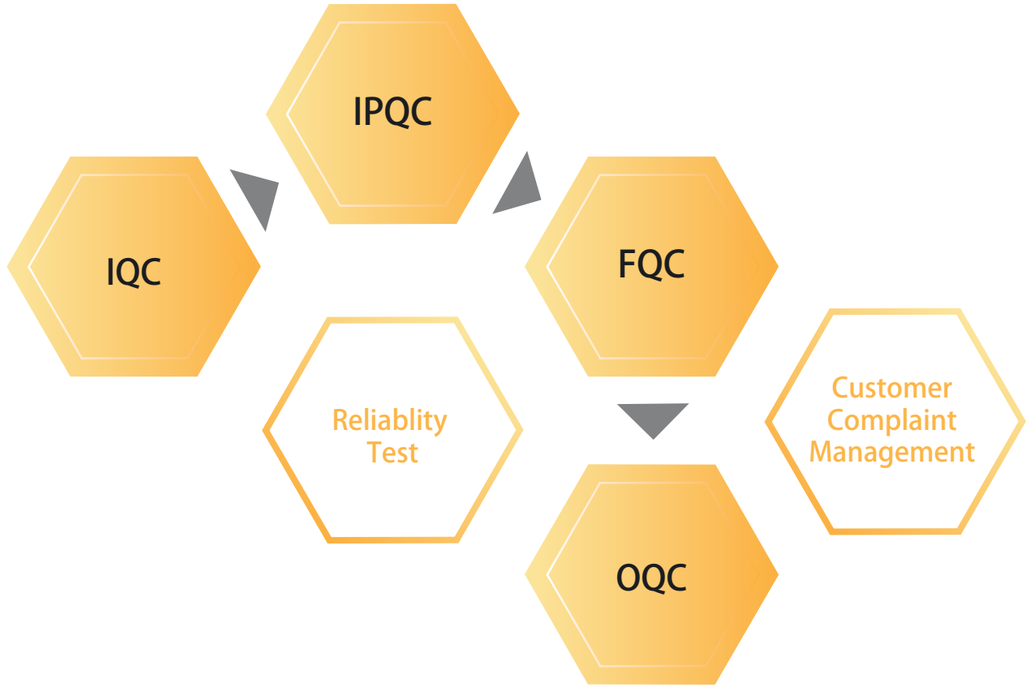
ISO 13485: 2016
Medical devices - Quality management systems

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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