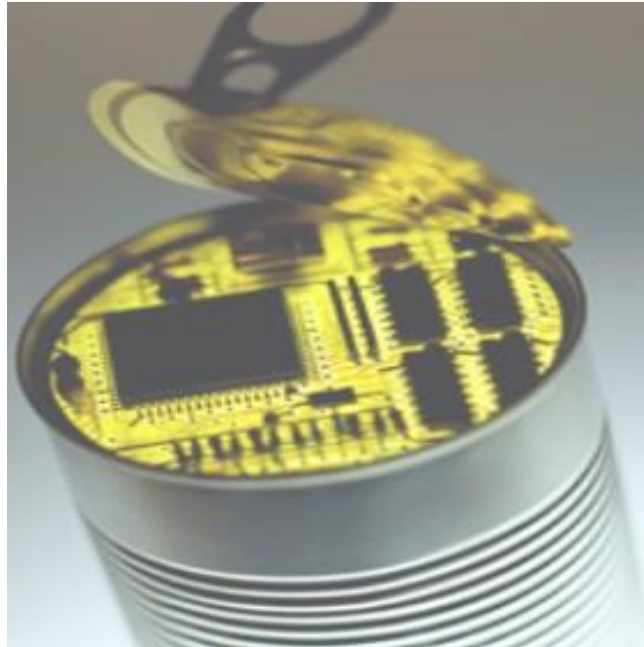


プローブ製品のご案内



有限会社 電材マート

コンタクトプローブ製品案内

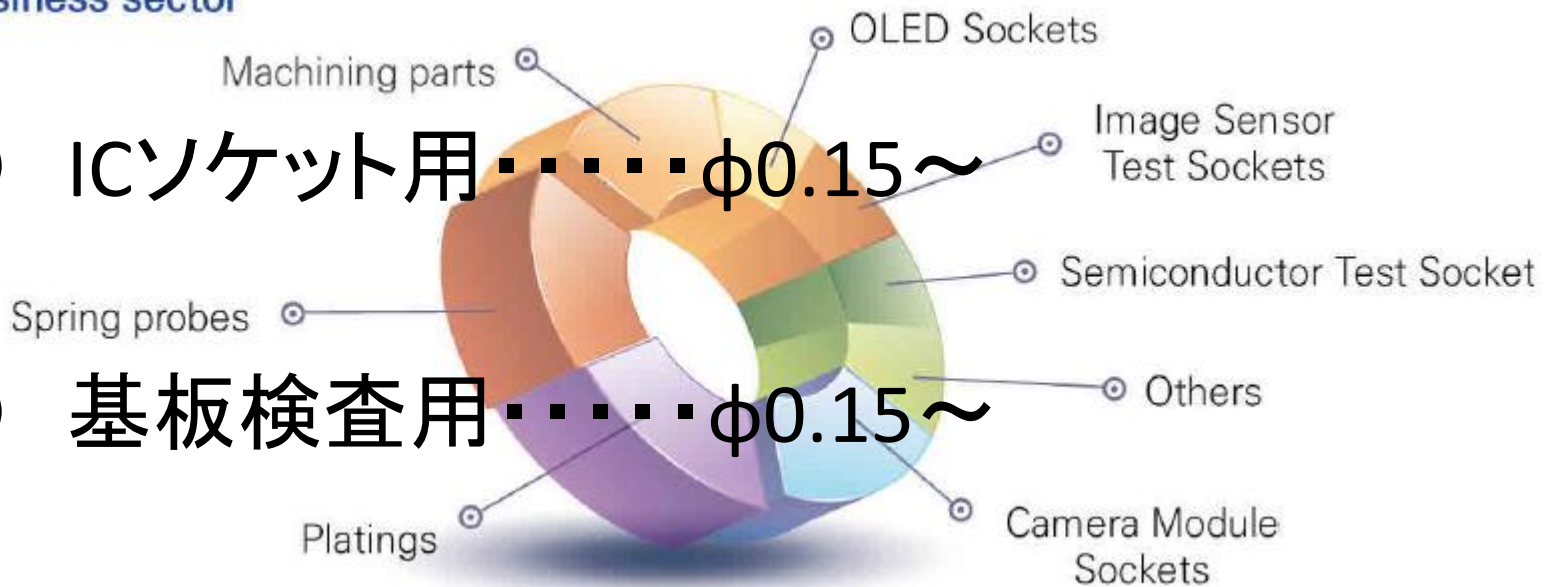
- ウェハ検査用……φ0.1～φ0.3

Business sector

- ICソケット用……φ0.15～

- 基板検査用……φ0.15～

- その他電子デバイス検査用



Product Name	Description
Product A	Product A Description
Product B	Product B Description
Product C	Product C Description
Product D	Product D Description
Product E	Product E Description
Product F	Product F Description
Product G	Product G Description
Product H	Product H Description
Product I	Product I Description
Product J	Product J Description
Product K	Product K Description
Product L	Product L Description
Product M	Product M Description
Product N	Product N Description
Product O	Product O Description
Product P	Product P Description
Product Q	Product Q Description
Product R	Product R Description
Product S	Product S Description
Product T	Product T Description
Product U	Product U Description
Product V	Product V Description
Product W	Product W Description
Product X	Product X Description
Product Y	Product Y Description
Product Z	Product Z Description

型番詳細

DP 03

57

S —

C

N

電材プローブ

外径

長さ

摺動タイプ

BOTTOM形状 TOP形状

S=Single

D=Double

末尾-F はフランジ付

Tips types of plungers

プランジャー先端形状



Cone



Concave



Conical



Conical



8Crown



S Crown



Flat



Full Round



Reduce Crown



Roll Crown



Stair Type



Three Conical

プローブ長さに対応ピッチ ①



- Pitches 0.25
- Length 2.5mm~5.5mm



- Pitches 0.35~0.4
- Length 2.5mm~20mm



- Pitches 0.5
- Length 2.2mm~30mm

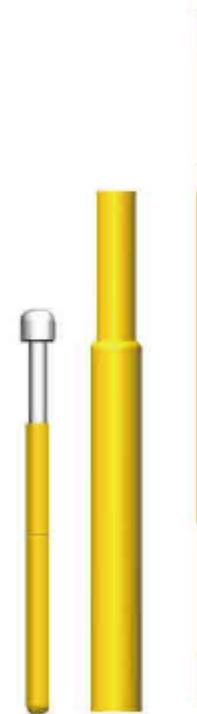
プローブ長さに対応ピッチ ②



- Pitches 0.8
- Length 2.5mm~40mm



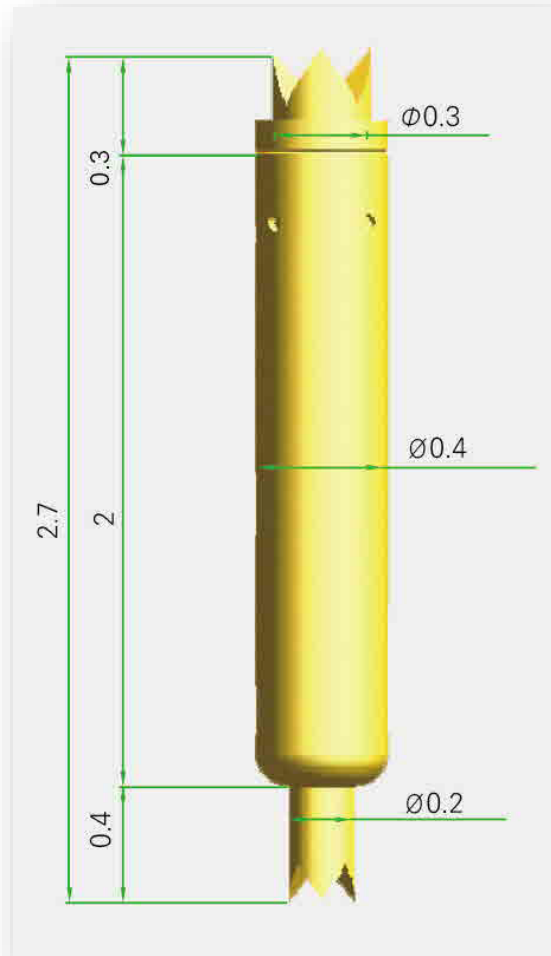
- Pitches 1.0
- Length 2.5mm~50mm



- Pitches 01.27
- Length 4.0mm~65mm

0.6mm Pitch

Type: DP-0427S-CC



Mechanical Specifications

Pitch : 0.5mm

Total Length : 2.7mm

Pointing Accuracy : ± 0.05

Spring Force : 13.0g at 0.3mm Recommended stroke

Full-Stroke : 0.4 mm

Electrical Specifications

Bandwidth : 13.7Ghz @ -1dB

Self inductance : 0.52 nH

Current rating : 1.0 amps

Resistance : Less than 80 m Ω

Capacitance : 0.44 pF

Propagation delay : 11.8 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

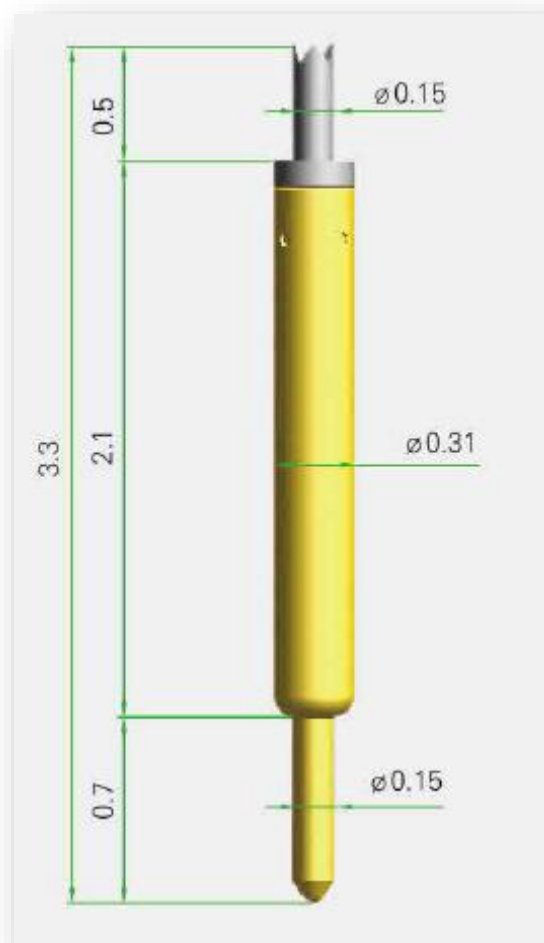
Top Plunger : Hardened beryllium cooper / Ni + Au platedon plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music - Wire / Ni + Au plated

0.4mm Pitch

Type: DP-03133S-CN



Mechanical Specifications

Pitch : 0.4mm

Total Length : 3.3mm

Pointing Accuracy : ± 0.05

Spring Force : 25.0g at 0.5mm Recommended stroke

Full-Stroke : 0.7 mm

Electrical Specifications

Bandwidth : 8.3Ghz @ -1dB

Self inductance : 0.48 nH

Current rating : 1.0 amps

Resistance : Less than 80 m Ω

Capacitance : 0.37 pF

Propagation delay : 18.1 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

Top Plunger : Hardened Pd Alloy / Non plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music - Wire / Ni + Au plated

0.6mm Pitch

Type: DP-03233S-CR-F



Mechanical Specifications

Pitch : 0.5mm

Total Length : 3.3mm

Pointing Accuracy : ± 0.05

Spring Force : 31.0g at 0.38mm Recommended stroke

Full-Stroke : 0.51 mm

Electrical Specifications

Bandwidth : 8.71 Ghz @ -1dB

Self inductance : 0.52 nH

Current rating : 1.5 amps

Resistance : Less than 80 m Ω

Capacitance : 0.41 pF

Propagation delay : 17.1 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

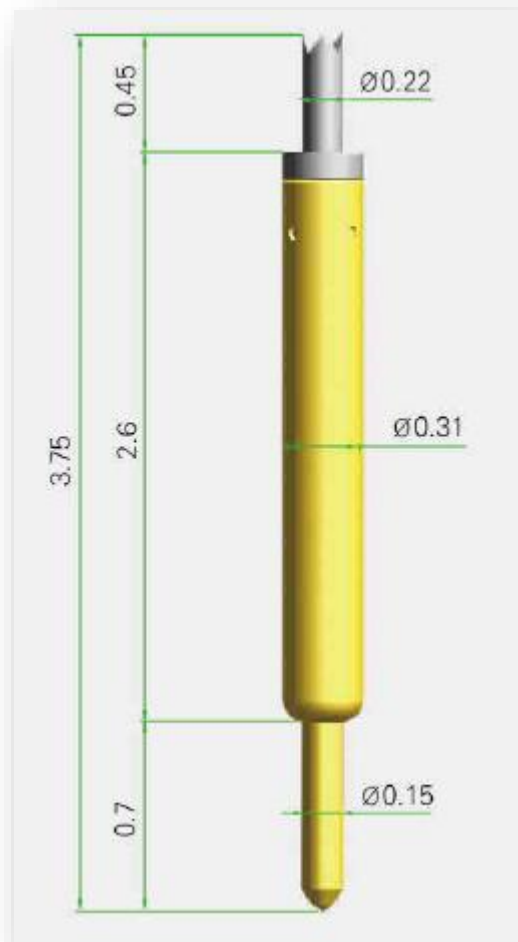
Top Plunger : Hardened beryllium copper / Ni + Au plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music - Wire / Ni + Au plated

0.4mm Pitch

Type: DP-03375S-CR



Mechanical Specifications

Pitch : 0.4mm

Total Length : 3.75mm

Pointing Accuracy : ± 0.05

Spring Force : 20.0g at 0.45mm Recommended stroke

Full-Stroke : 0.65 mm

Electrical Specifications

Bandwidth : 7.36Ghz @ -1dB

Self inductance : 0.65 nH

Current rating : 1.0 amps

Resistance : Less than 80 m Ω

Capacitance : 0.42 pF

Propagation delay : 17.64 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

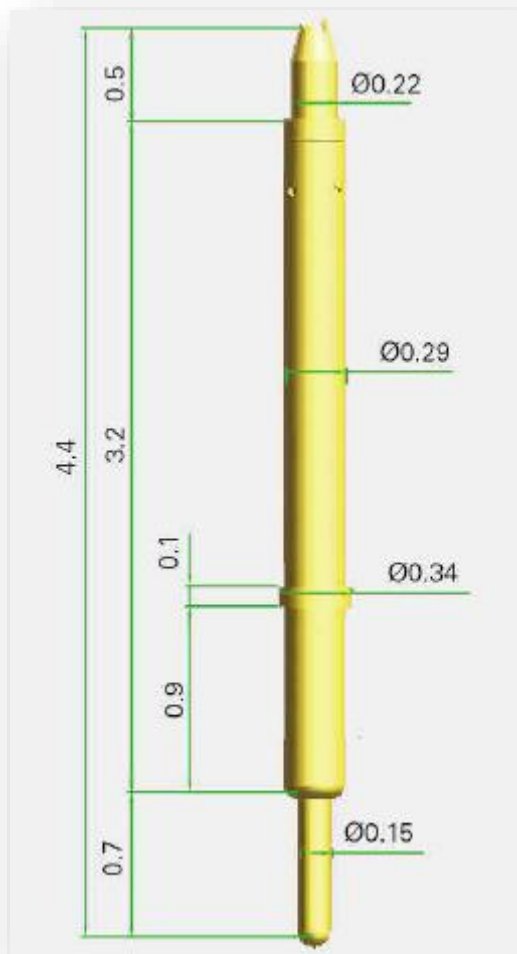
Top Plunger : Hardened beryllium copper / Ni + Au + PdCo plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music - Wire / Ni + Au plated

0.4mm Pitch

Type: DP-03444S-AD-F



Mechanical Specifications

Pitch : 0.4mm

Total Length : 4.4mm

Pointing Accuracy : ± 0.05

Spring Force : 270g at 0.5mm Recommended stroke

Full-Stroke : 0.7 mm

Electrical Specifications

Bandwidth : 7.46Ghz @ -1dB B

Self inductance : 0.74 nH

Current rating : 1.0 amps

Resistance : Less than 80 m Ω

Capacitance : 0.49 pF

Propagation delay : 22.3 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

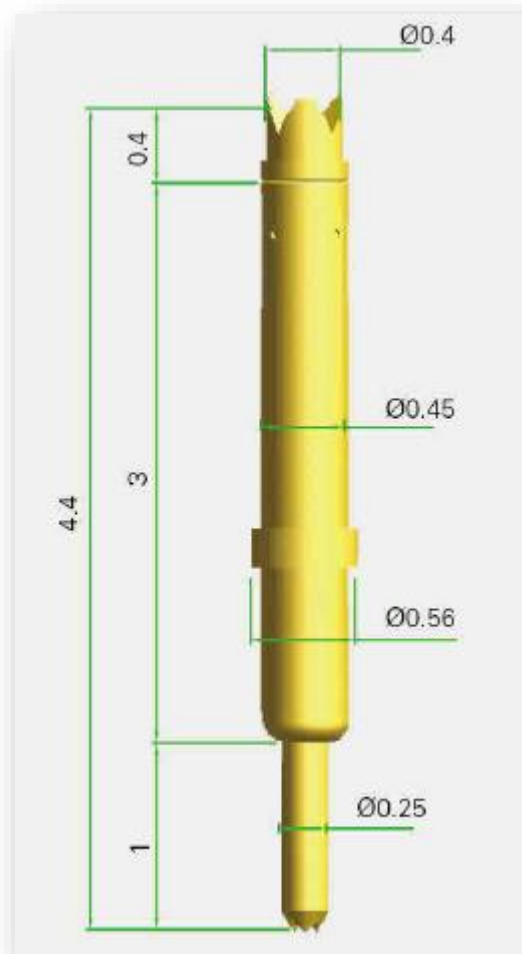
Top Plunger : Hardened Steel / Ni + Au plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music - Wire / Ni + Au plated

0.8mm Pitch

Type: DP-04544S-MA-F



Mechanical Specifications

Pitch : 0.75mm

Total Length : 4.4mm

Pointing Accuracy : ± 0.05

Spring Force : 34.0g at 0.5mm Recommended stroke

Full-Stroke : 0.7 mm

Electrical Specifications

Bandwidth : 9.31Ghz @ -1dB B

Self inductance : 1.21 nH

Current rating : 2.5 amps

Resistance : Less than 80 m Ω

Capacitance : 1.34 pF

Propagation delay : 20.6 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

Top Plunger : Hardened beryllium cooper / Ni + Au plated

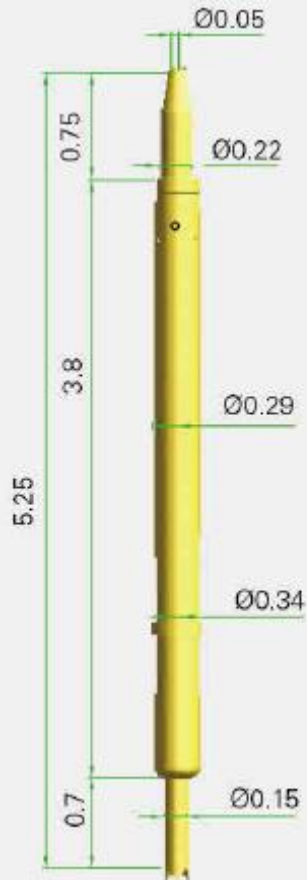
Bottom Plunger : Hardened beryllium cooper /

Ni + Au plated

Spring : Music - Wire / Ni + Au plated

0.4mm Pitch

Type: DP-034525S-AC-F



Mechanical Specifications

Pitch : 0.4mm

Total Length : 5.25mm

Pointing Accuracy : ± 0.05

Spring Force : 27.0g at 0.6mm Recommended stroke

Full-Stroke : 0.7 mm

Electrical Specifications

Bandwidth : 7.21Ghz @ -1dB B

Self inductance : 0.75 nH

Current rating : 1.0 amps

Resistance : Less than 80 m Ω

Capacitance : 0.45 pF

Propagation delay : 23.1 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

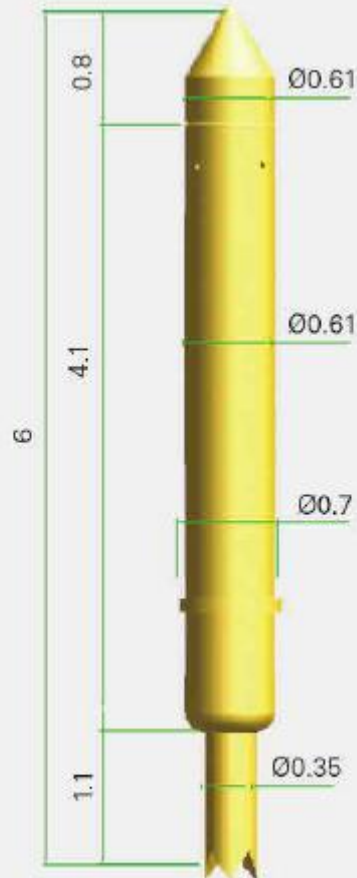
Top Plunger : Hardened beryllium copper / Ni + Au plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music -Wire / Ni + Au plated

1.0mm Pitch

Type: DP-0760S-AC-F



Mechanical Specifications

Pitch : 1.0mm

Total Length : 6.0mm

Pointing Accuracy : ± 0.05

Spring Force : 38.0g at 0.8mm Recommended stroke

Full-Stroke : 1.1 mm

Electrical Specifications

Bandwidth : 10.48Ghz @ -1dB B

Self inductance : 1.09 nH

Current rating : 3.0 amps

Resistance : Less than 80 m Ω

Capacitance : 0.96 pF

Propagation delay : 26.84 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

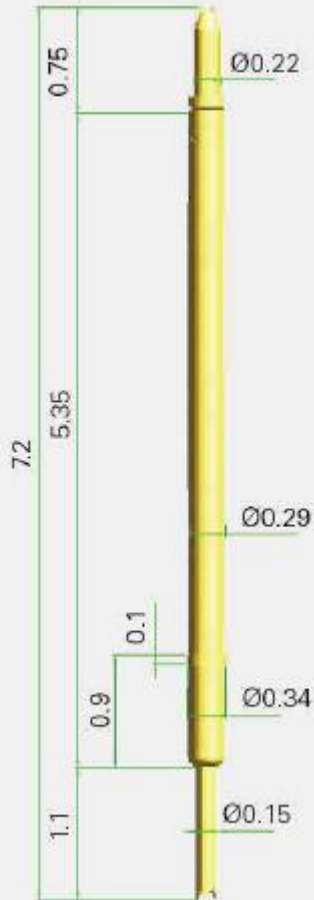
Top Plunger : Hardened beryllium copper / Ni + Au plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music - Wire / Ni + Au plated

0.4mm Pitch

Type: DP-03472S-AC-F



Mechanical Specifications

Pitch : 0.4mm

Total Length : 7.2mm

Pointing Accuracy : ± 0.05

Spring Force : 32.0g at 0.7mm Recommended stroke

Full-Stroke : 0.9 mm

Electrical Specifications

Bandwidth : 7.15Ghz @ -1dB

Self inductance : 0.89 nH

Current rating : 1.0 amps

Resistance : Less than 80 m Ω

Capacitance : 0.79 pF

Propagation delay : 30.2 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

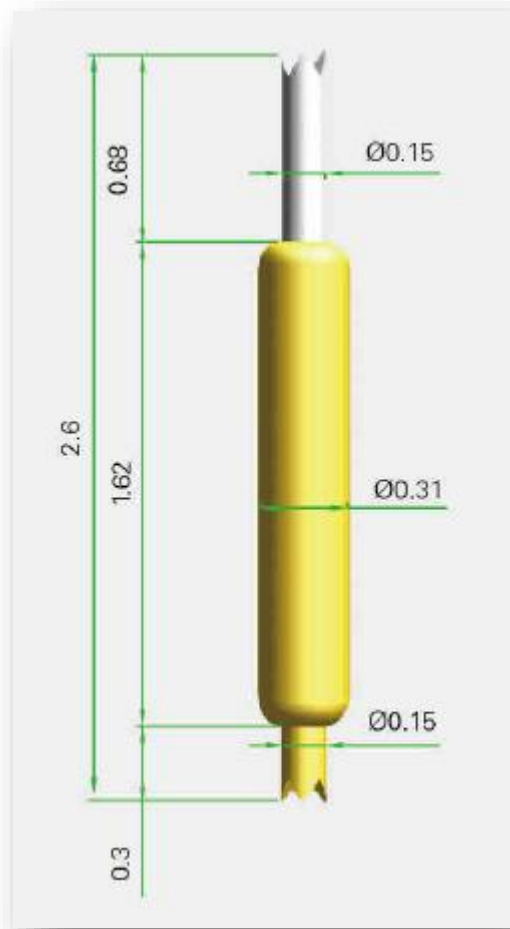
Top Plunger : Hardened Steel / Ni + Au plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music - Wire / Ni + Au plated

0.4mm Pitch

Type: DP-03126D-CC



Mechanical Specifications

Pitch : 0.4mm

Total Length : 2.6mm

Pointing Accuracy : ± 0.05

Spring Force : 30.0g at 0.38mm Recommended stroke

Full-Stroke : 0.45 mm

Electrical Specifications

Bandwidth : 9.8Ghz @ -1dB

Self inductance : 0.47 nH

Current rating : 1.0 amps

Resistance : Less than 80 m Ω

Capacitance : 0.48 pF

Propagation delay : 11.58 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

Top Plunger : Hardened Pd Alloy / Non plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music - Wire / Ni + Au plated

0.3mm Pitch

Type: DP-02543D-AA



Mechanical Specifications

Pitch : 0.35mm

Total Length : 4.3mm

Pointing Accuracy : ± 0.05

Spring Force : 22.0g at 0.5mm Recommended stroke

Full-Stroke : 0.7 mm

Electrical Specifications

Bandwidth : 12.3Ghz @ -1dB

Self inductance : 5.3 nH

Current rating : 1.0 amps

Resistance : Less than 80 m Ω

Capacitance : 0.52 pF

Propagation delay : 10.4 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

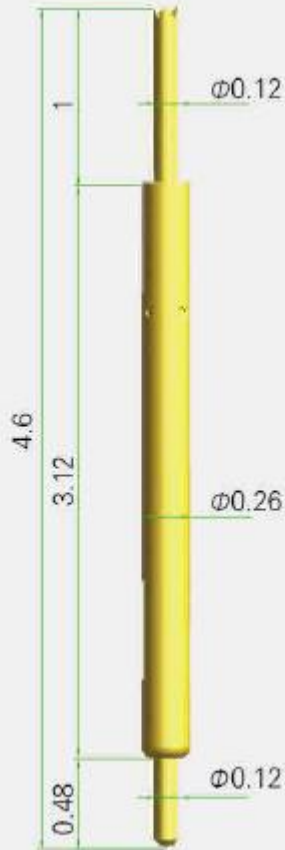
Top Plunger : Hardened beryllium copper / Ni + Au plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music - Wire / Ni + Au plated

0.3mm Pitch

Type: DP-02646D-CR



Mechanical Specifications

Pitch : 0.35mm

Total Length : 4.6mm

Pointing Accuracy : ± 0.05

Spring Force : 21.0g at 0.5mm Recommended stroke

Full-Stroke : 0.6 mm

Electrical Specifications

Bandwidth : 11.6Ghz @ -1dB

Self inductance : 5.1 nH

Current rating : 1.0 amps

Resistance : Less than 80 m Ω

Capacitance : 0.5 pF

Propagation delay : 10.6 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

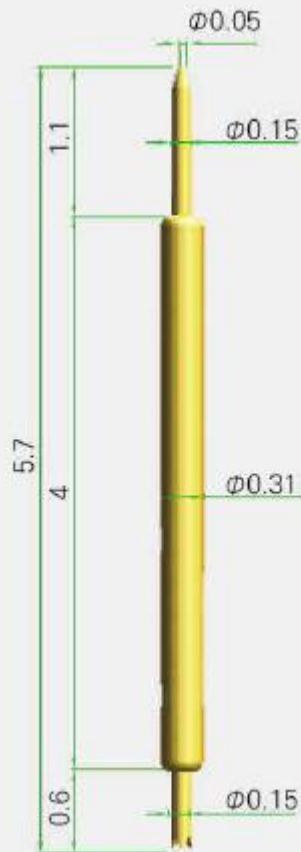
Top Plunger : Hardened beryllium copper / Ni + Au plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music -Wire / Ni + Au plated

0.35mm Pitch

Type: DP-03157D-AC



Mechanical Specifications

Pitch : 0.4mm

Total Length : 5.7mm

Pointing Accuracy : ± 0.05

Spring Force : 20.0g at 0.5mm Recommended stroke

Full-Stroke : 0.7 mm

Electrical Specifications

Bandwidth : 7.83Ghz @ -1dB

Self inductance : 1.26 nH

Current rating : 1.0 amps

Resistance : Less than 80 m Ω

Capacitance : 1.43 pF

Propagation delay : 26.67 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

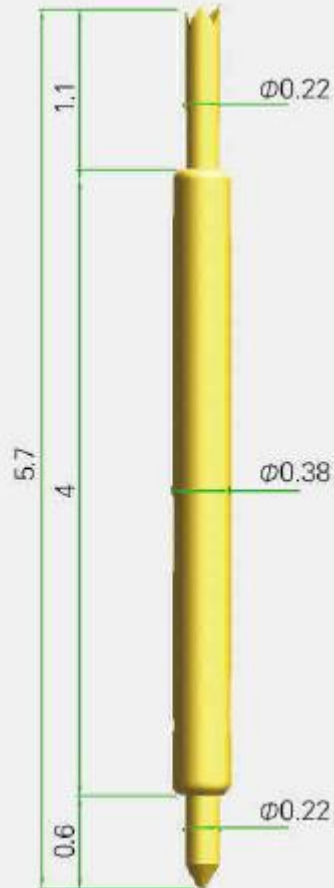
Top Plunger : Hardened beryllium copper / Ni + Au plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music -Wire / Ni + Au plated

0.5mm Pitch

Type: DP-03857D-CA



Mechanical Specifications

Pitch : 0.5mm

Total Length : 5.7mm

Pointing Accuracy : ± 0.05

Spring Force : 30.0g at 0.65mm Recommended stroke

Full-Stroke : 0.8 mm

Electrical Specifications

Bandwidth : 9.68Ghz @ -1dB

Self inductance : 1.01 nH

Current rating : 2.0 amps

Resistance : Less than 80 m Ω

Capacitance : 0.99 pF

Propagation delay : 26.71 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

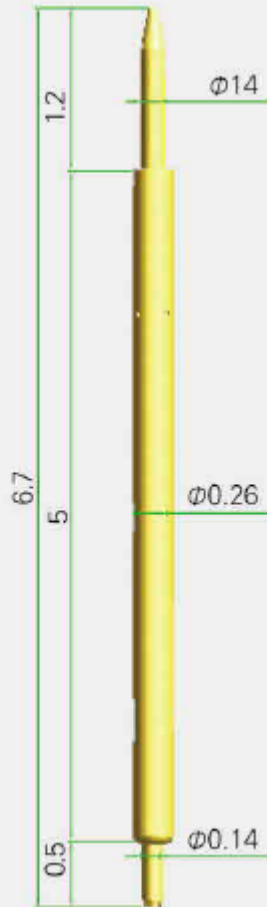
Top Plunger : Hardened beryllium copper / Ni + Au plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music - Wire / Ni + Au plated

0.35mm Pitch

Type: DP-02667D-AA



Mechanical Specifications

Pitch : 0.35mm

Total Length : 6.7mm

Pointing Accuracy : ± 0.05

Spring Force : 22g at 0.7mm Recommended stroke

Full-Stroke : 1.0 mm

Electrical Specifications

Bandwidth : 13.7Ghz @ -1dB

Self inductance : 5.8 nH

Current rating : 1.0 amps

Resistance : Less than 80 m Ω

Capacitance : 0.59 pF

Propagation delay : 11.2 ps

Operating Temperature : -40°C - 120°C

Materials & Platings

Barrel : Phosphor bronze / Ni + Au plated

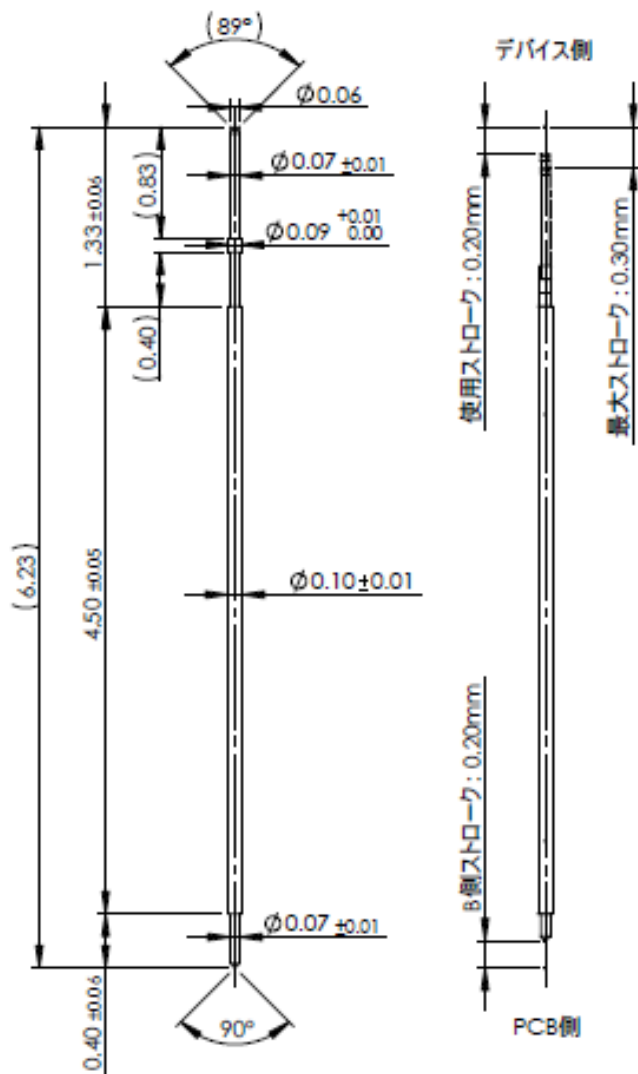
Top Plunger : Hardened beryllium copper / Ni + Au plated

Bottom Plunger : Hardened beryllium copper / Ni + Au plated

Spring : Music - Wire / Ni + Au plated

0.15mmPitch

Type:DP-010623D-AMA-1

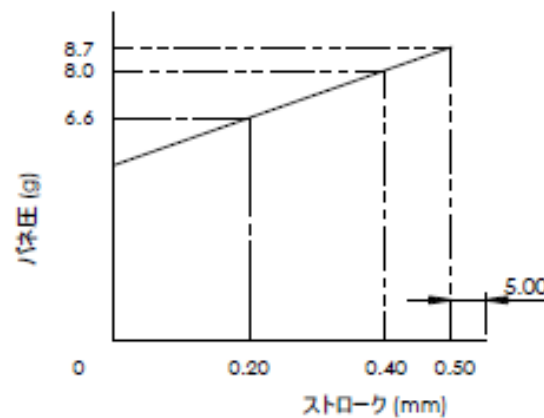


機械的仕様

使用ストローク : 0.40mm
最大ストローク : 0.50mm
バネ圧 : 8.0g ± 30% (0.40mmストローク)
機械的寿命 : 20万回
使用温度 : -40℃~ 125℃

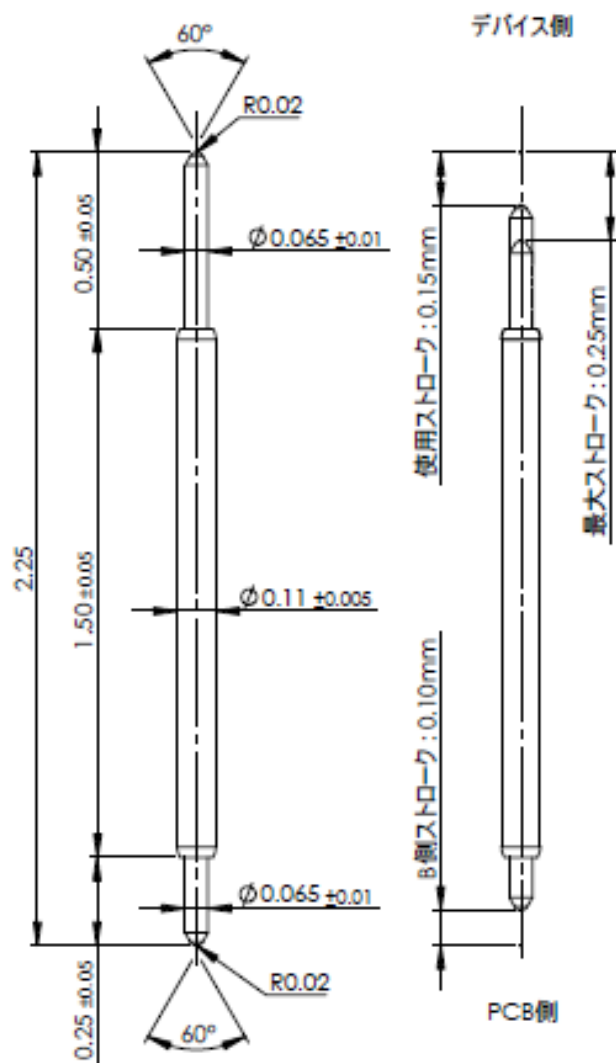
材質 / 表面処理

A側ブラジジャー : Pd 合金
B側ブラジジャー : Pd 合金
パレル : Ni, Au
スプリング : SWP / Ni, Au



0.15mm Pitch

Type:DP-011225D-AR-AR-1

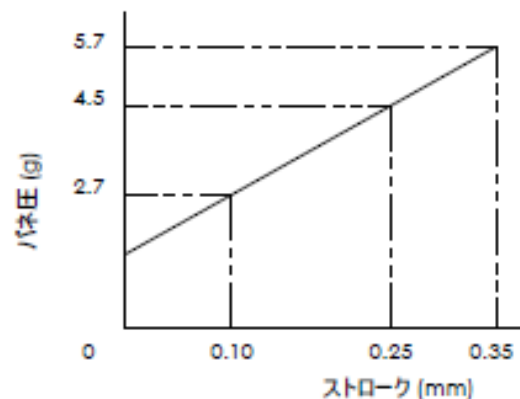


機械的仕様

使用ストローク : 0.25mm
最大ストローク : 0.35mm
バネ圧 : 4.5g ± 20% (0.25mmストローク)
機械的寿命 : 50万回
使用温度 : -40°C ~ 125°C

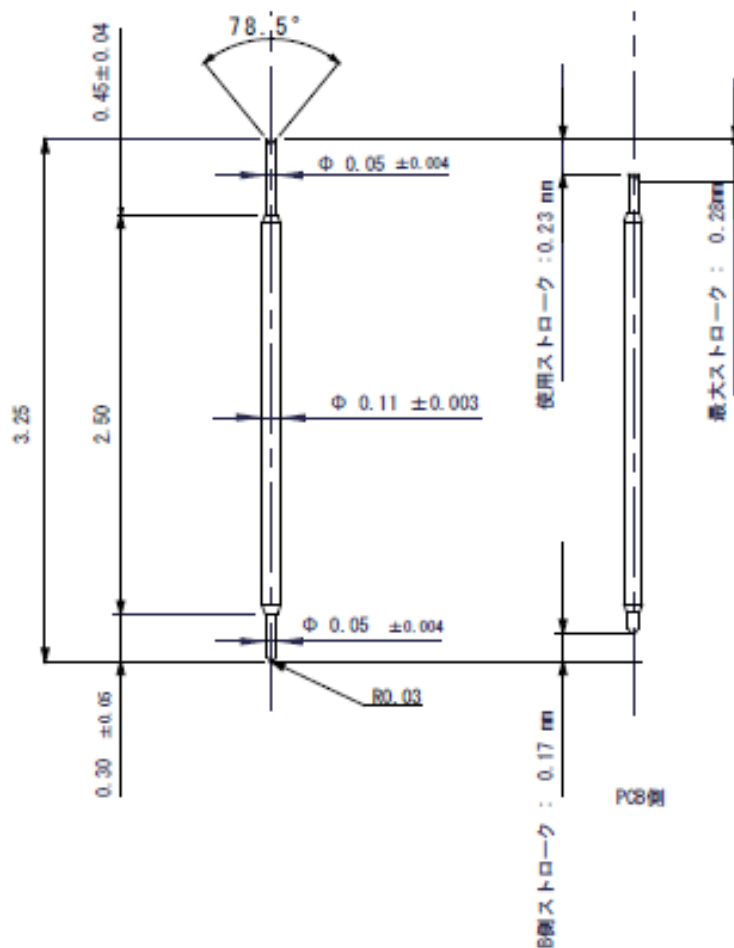
材質 / 表面処理

A側プランジャー : Pd 合金
B側プランジャー : BeCu / Ni, Au
パレル : Ni, Au
スプリング : SWP / Ni, Au



0.15mm Pitch

Type:DP-011325D-CR-1

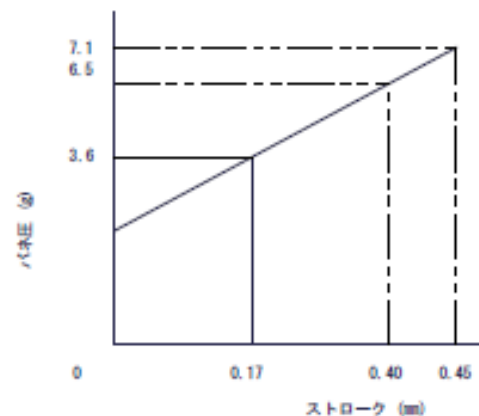


機械的仕様

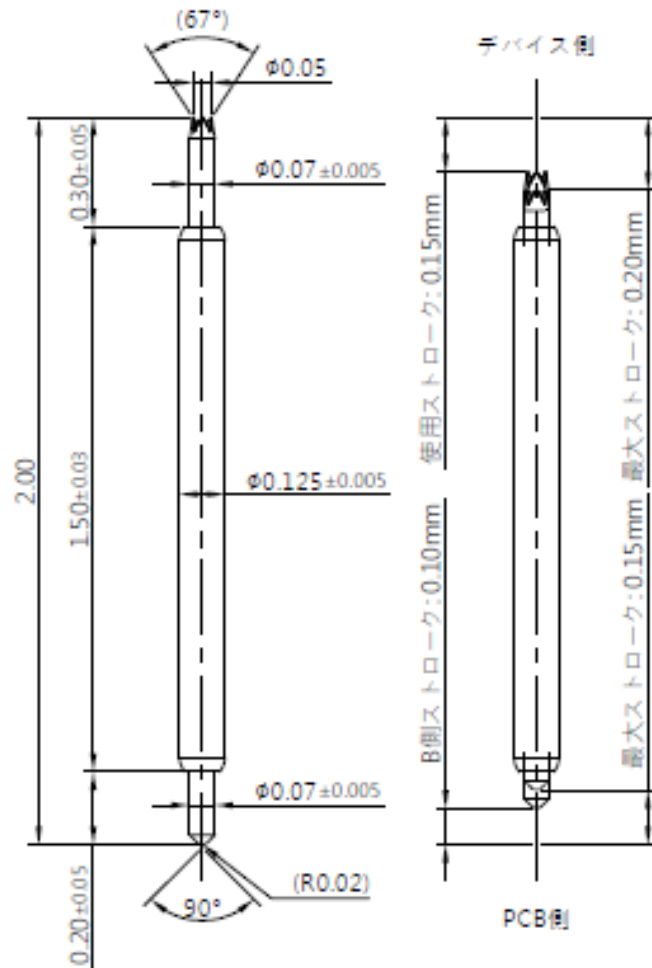
使用ストローク	: 0.40mm
最大ストローク	: 0.45mm
バネ圧	: 6.5g ± 20% (0.40mmストローク)
機械的寿命	: 50万回
使用温度	: -40°C ~ 125 °C

材質 / 表面処理

A側ブラジジャー	: Pd 合金 over Au Plating
B側ブラジジャー	: Pd 合金 over Au Plating
パレル	: Ni, Au
スプリング	: SNP / Ni, Au



0.18mm Pitch: Type:DP-013200D-AMA-1

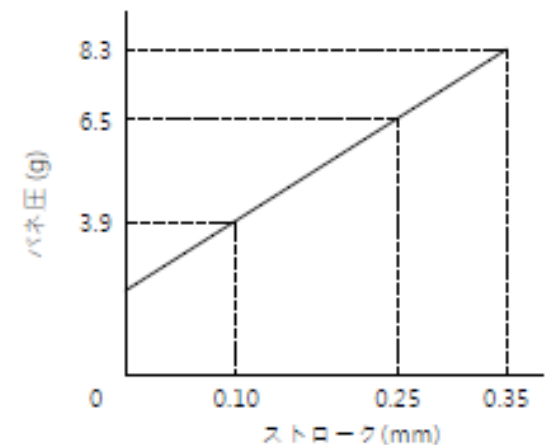


機械的仕様

使用ストローク	: 0.25mm
最大ストローク	: 0.35mm
バネ圧	: 6.5g ± 30% (0.25mmストローク)
機械的寿命	: 20万回
使用温度	: -40℃ ~ 125℃

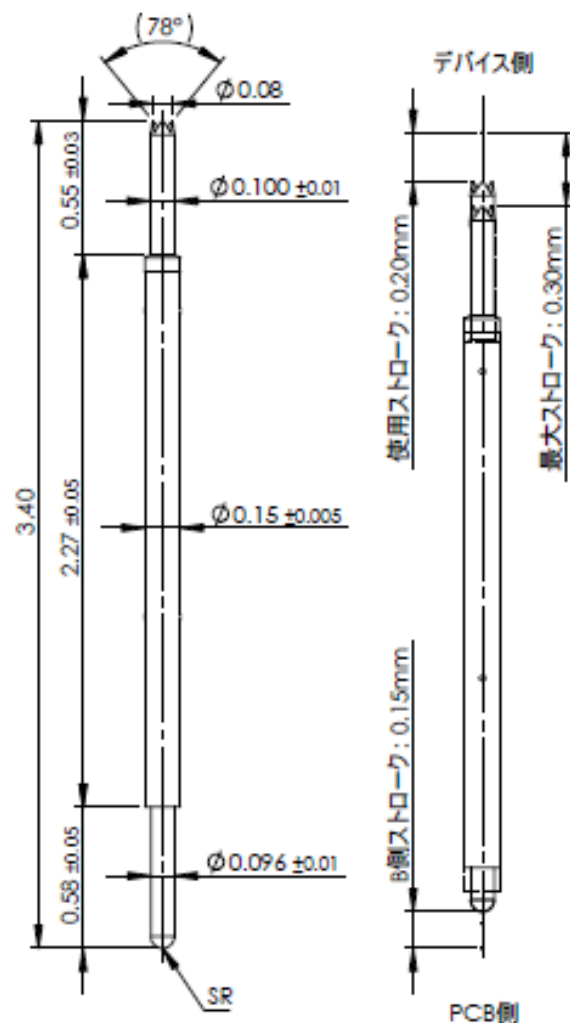
材質 / 表面処理

A側ブランジャー	: Pd 合金
B側ブランジャー	: BeCu / Ni, Au
バレル	: Ni, Au
スプリング	: SWP / Ni, Au



0.2mm Pitch

Type:DP-015430S-AMR-1

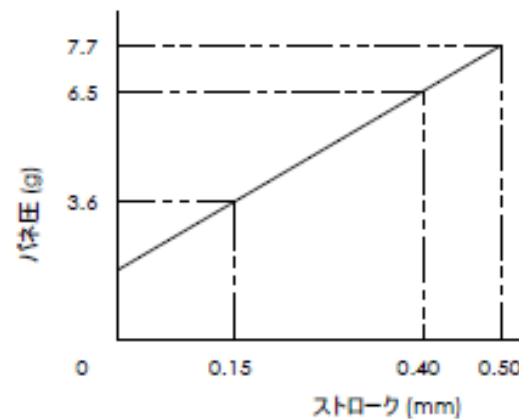


機械的仕様

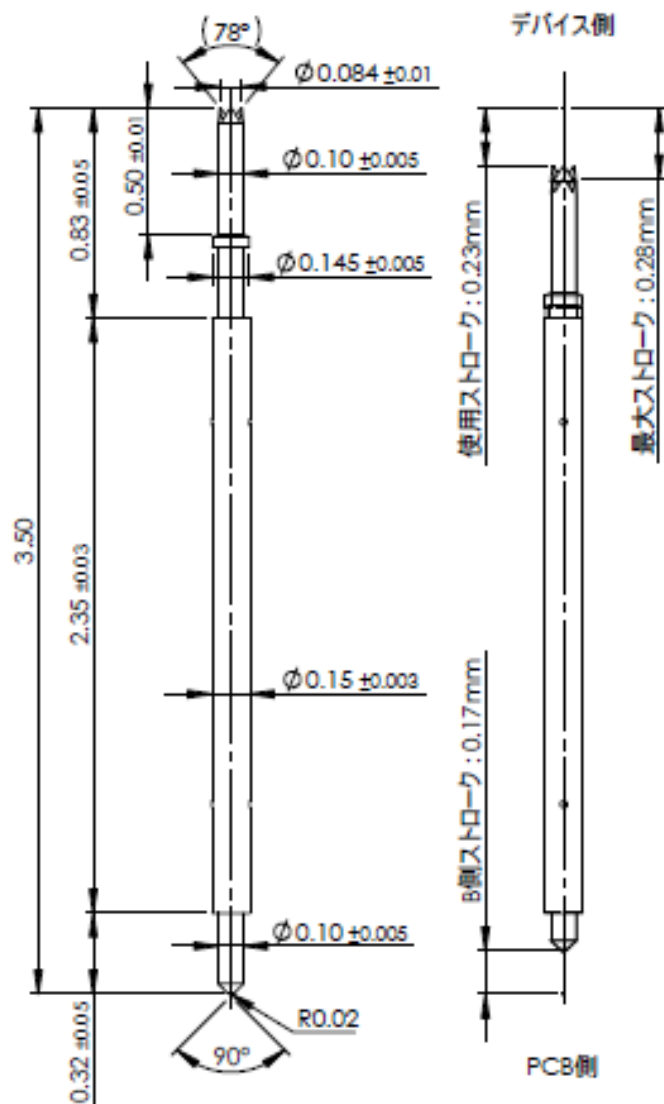
使用ストローク : 0.40mm
最大ストローク : 0.50mm
バネ圧 : $6.5g \pm 20\%$ (0.40mmストローク)
機械的寿命 : 50万回
使用温度 : $-40^\circ\text{C} \sim 125^\circ\text{C}$

材質 / 表面処理

A側プランジャー : Pd 合金
B側プランジャー : BeCu / Ni, Au
バレル : Ni, Au
スプリング : SWP / Ni, Au



Type: DP-015350D-AMAR-1

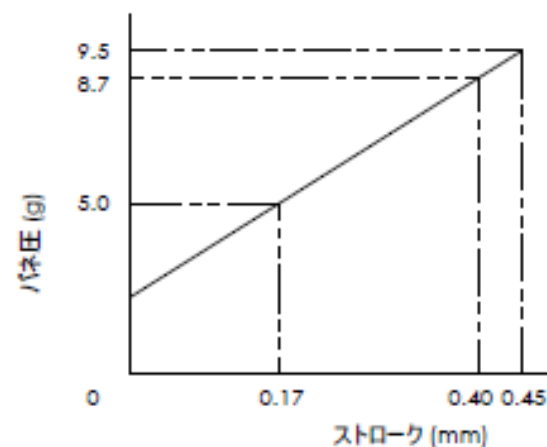


機械的仕様

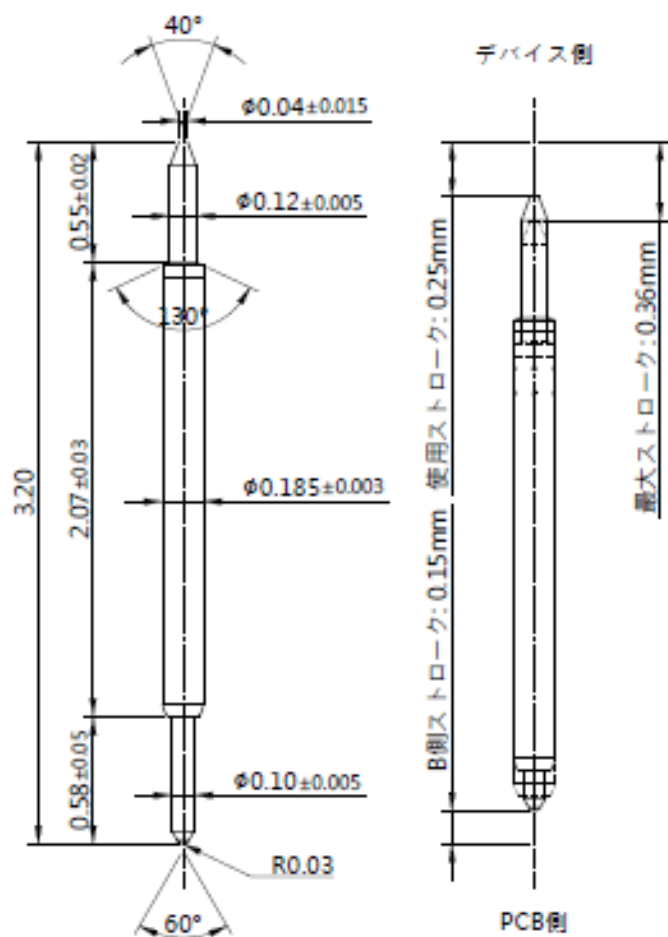
使用ストローク : 0.40mm
最大ストローク : 0.45mm
バネ圧 : 8.7g ± 20% (0.40mmストローク)
機械的寿命 : 50万回
使用温度 : -40℃~ 125℃

材質 / 表面處理

A側ブランジャー : Pd 合金 / Au
B側ブランジャー : Pd 合金 / Au
パレル : Ni, Au
スプリング : SWP / Ni, Au



0.25mm Pitch: Type: DP-019320S-AFAR-1

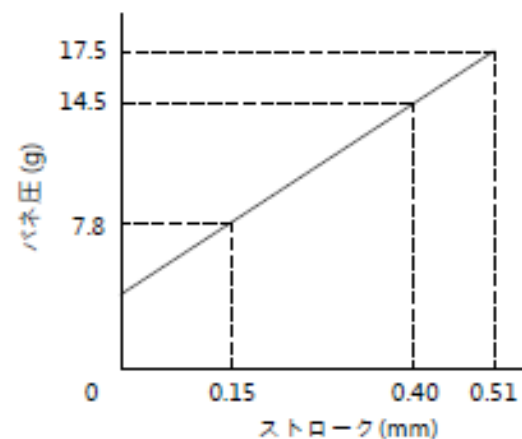


機械的仕様

使用ストローク	: 0.40 mm
最大ストローク	: 0.51 mm
バネ圧	: 14.5 g ± 20% (0.40 mm ストローク)
機械的寿命	: 20 万回
使用温度	: -40°C ~ 125°C
位置精度	: ± 0.06

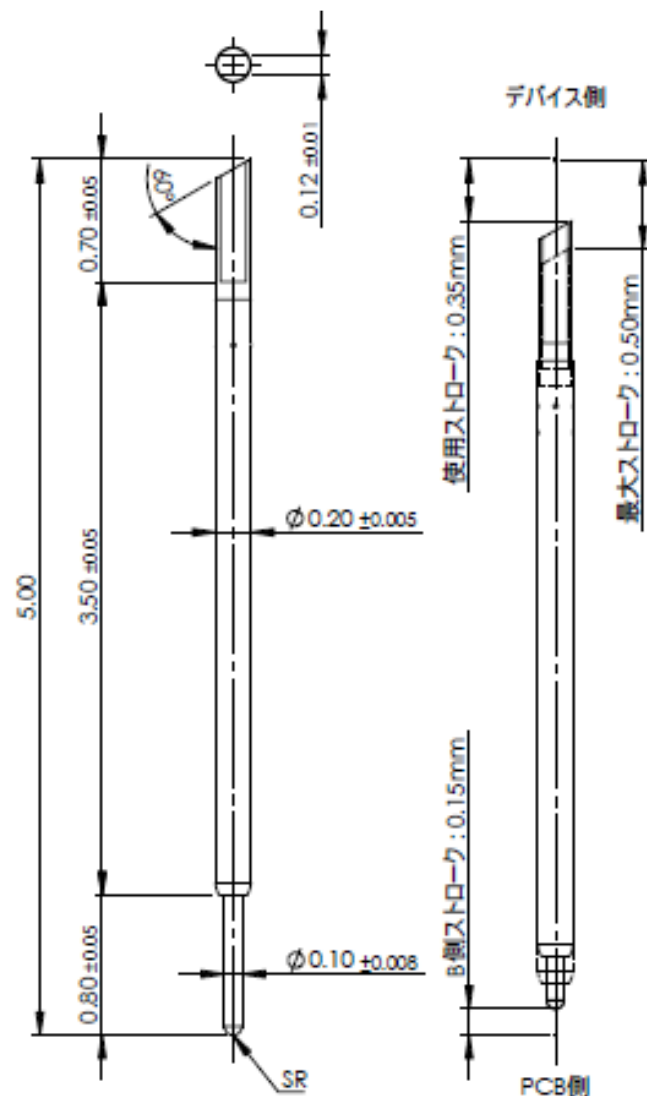
材質 / 表面処理

A側プランジャー	: Pd 合金
B側プランジャー	: SK4 / Ni, Au
バレル	: Ni, Au
スプリング	: SWP / Ni, Au, 封孔処理



0.25mm Pitch

Type: DP-020500S-KLR-1

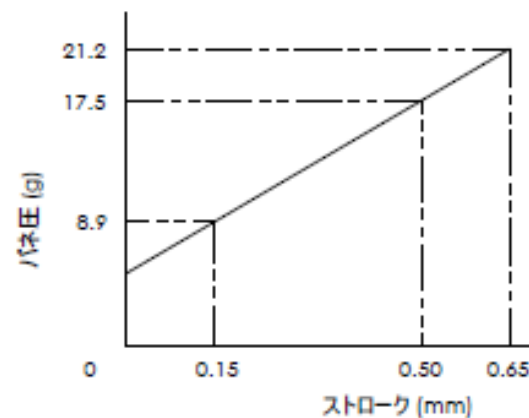


機械的仕様

使用ストローク : 0.50mm
最大ストローク : 0.65mm
パネ圧 : 17.5g $\pm 20\%$ (0.50mmストローク)
機械的寿命 : 50万回
使用温度 : -40°C ~ 120°C

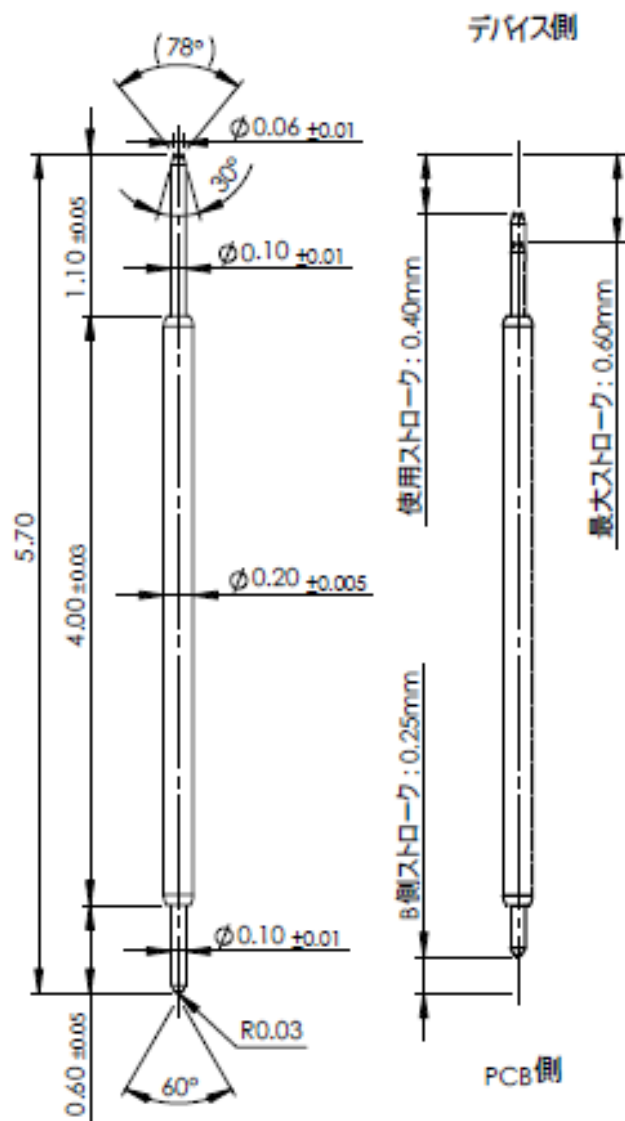
材質 / 表面処理

A側プランジャー : Pd合金
B側プランジャー : BeCu / Ni, Au
パレル : Ni, Au
スプリング : SWP / Ni, Au



0.25mm Pitch

Type: DP-020570D-AMAR-1

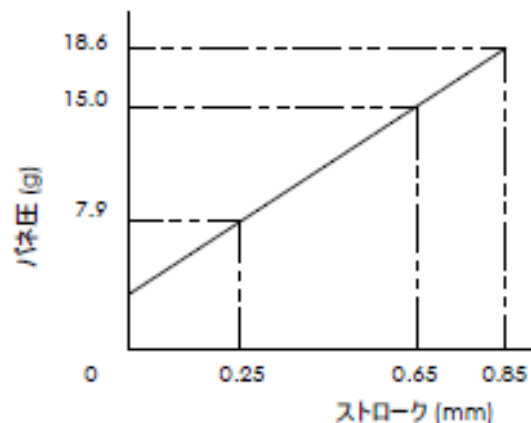


機械的仕様

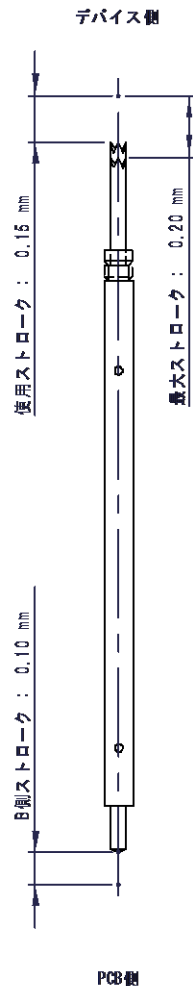
使用ストローク : 0.65mm
最大ストローク : 0.85mm
バネ圧 : 15g $\pm$ 20% (0.65mmストローク)
機械的寿命 : 50万回
使用温度 : -40°C ~ 120°C

材質 / 表面処理

A側プランジャー : Pd 合金
B側プランジャー : BeCu / Ni, Au
バレル : Ni, Au
スプリング : SWP / Ni, Au



Type: DP-0092550D-CA-1



使用ストローク : 0.25mm
最大ストローク : 0.30mm
パネ圧 : 4.6g ± 20% (0.25mmストローク)
機械的寿命 : 50万回
使用温度 : -40°C ~ 125°C

A側 プランジャー	: Pd 合金
B側 プランジャー	: Pd 合金
パレル	: Ni, Au
スプリング	: S ₅₉ / Ni, Au

