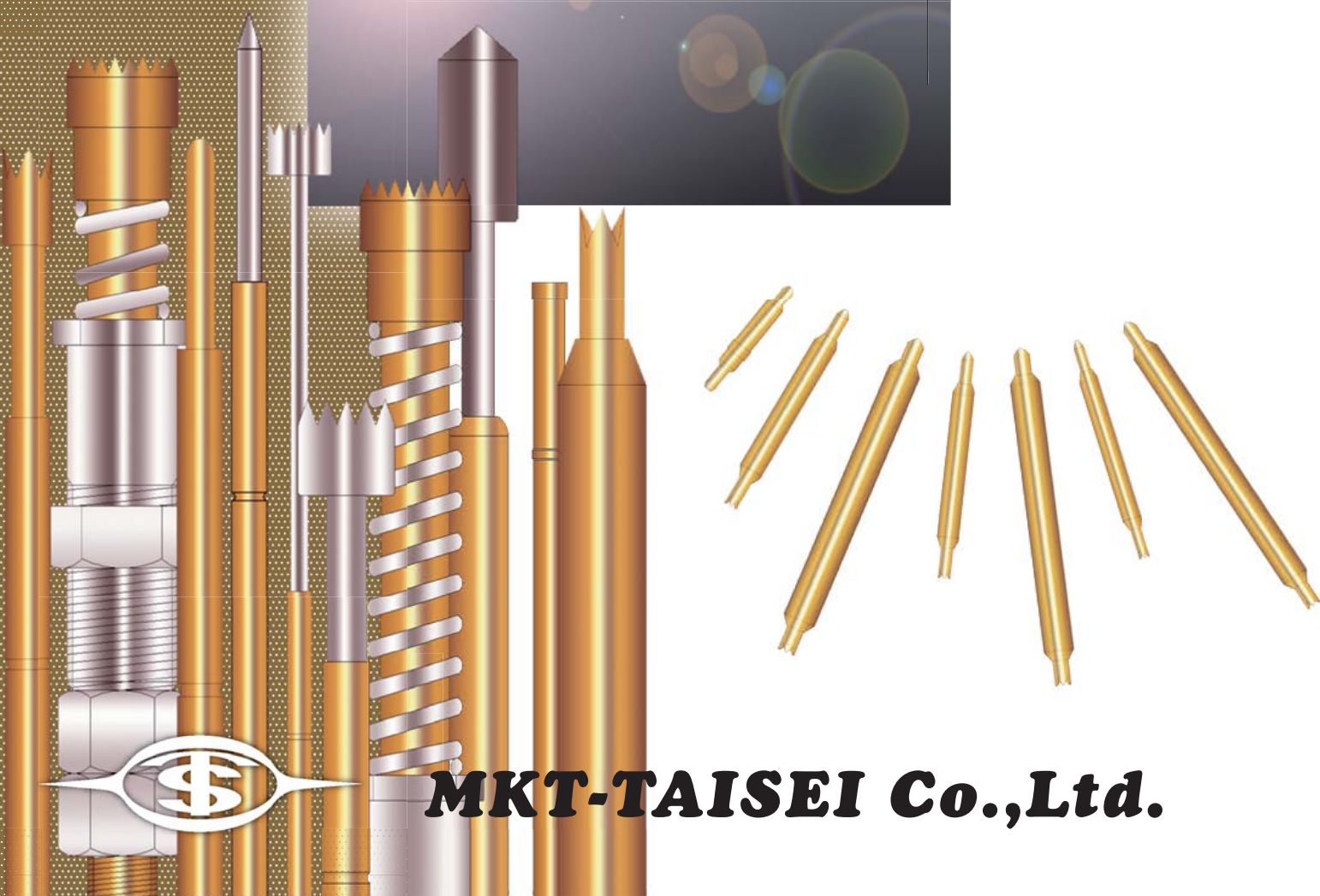


Contact Probes



 **MKT-TAISEI Co.,Ltd.**



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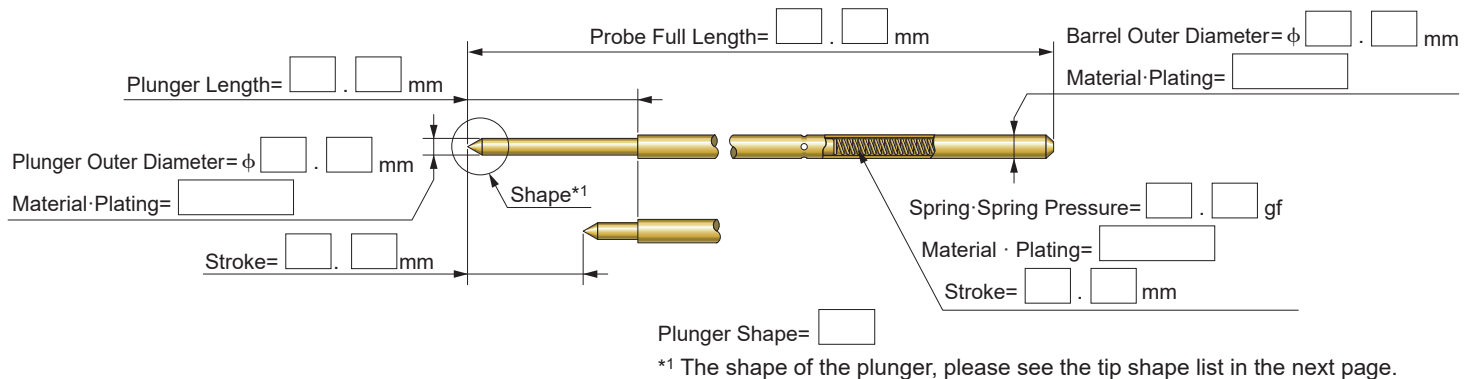
Custom Made

(Applicable Product Specification / Requested Matters Contact Form)



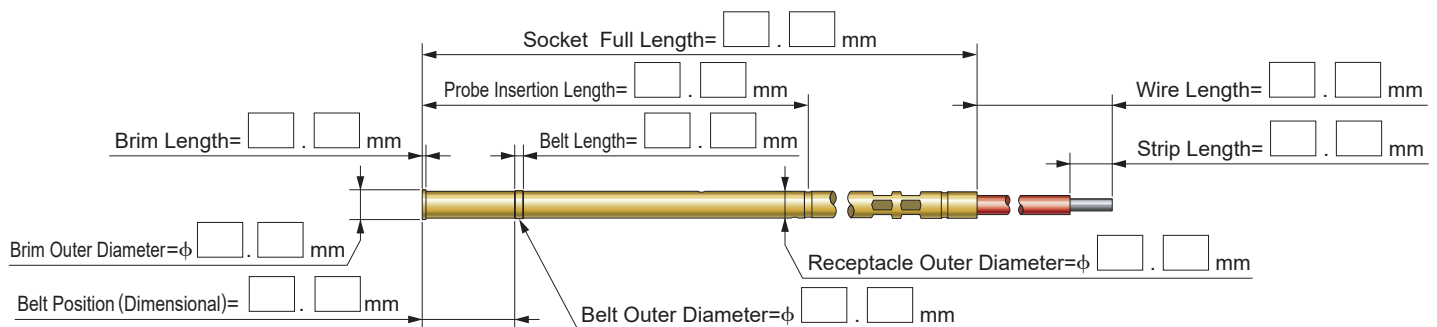
We will correspond to various custom products.
For each item, please tell us your request.
(Please specify ☒ and dimension value for corresponding part.)

☐ One Side Probe (Single Side Probe · TP series)

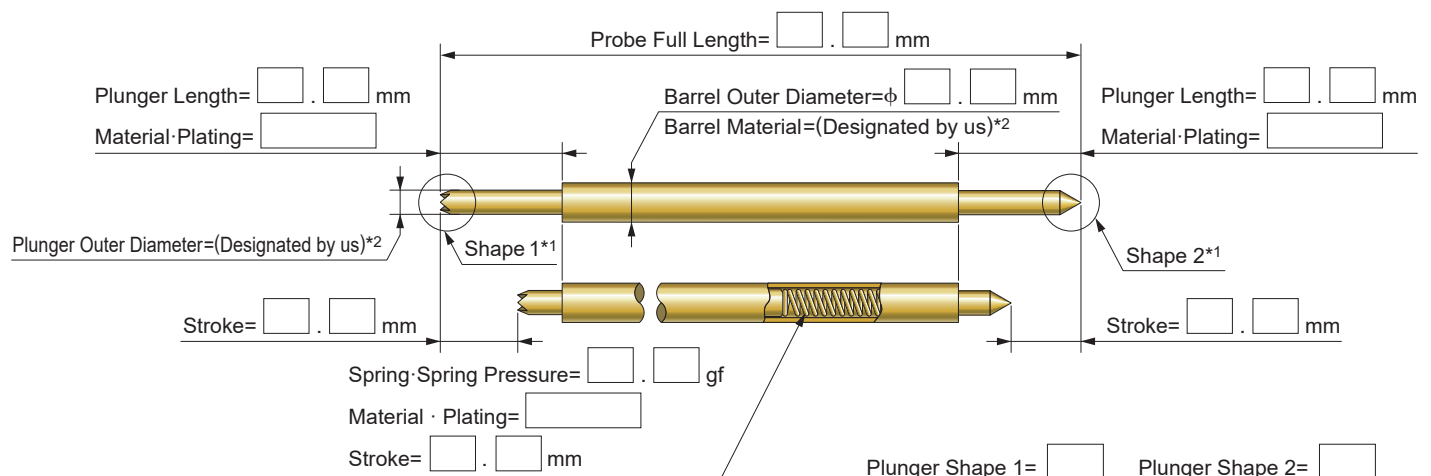


*1 The shape of the plunger, please see the tip shape list in the next page.

☐ Correspondence Receptacle



☐ Both Ends Probe (Double Side Probe · TW series)



*1 For the shape of the plunger, please see the tip shape list in the next page.

*2 Please contact us for the locations designated by us.

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Address : 6972 Shimo-Yoshida, Chichibu-shi, Saitama-ken,
369-1593, JAPAN.

Phone : +81-494-77-1211 / FAX : +81-494-77-1415

Sales Office **MKT TAISEI Co.,Ltd.**

Address : 3-10-8, Nohagi 1st Bldg, Minami-Ikebukuro, Toshima-ku, Tokyo, 171-0022, Japan.
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e-custom_made-03

Plunger Tip Shapes List

NH

Needle Head



RH

Round Shaft Head



RW

Round Shaft Taper Head



VH

V-Cup Head



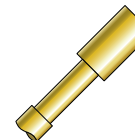
VW

V-Cup Taper Head



FH

Flat Head



DH

Self Cleaning Head



FW

Flat Taper Head



4P

Crown 4-Point Pyramid Head



4H

Crown Head 4-Point



4W

Crown 4-Point Taper Head



5H

Crown Head 5-Point



6H

Crown Head 6-Point



7H

Crown Head 7-Point



9H

Crown Head 9-Point



MH

Mesh Head



SH

Star Head (Hexagonal 90°)



AH

Trigonal Pyramid R Head



NB

Needle



RB

Round Shaft



RT

Round Shaft Taper



VB

V-Cup



VT

V-Cup Taper



FB

Flat



FT

Flat Taper



DB

Self Cleaning



4B

Crown 4-Point



4T

Crown 4-Point Taper



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e-plunger-03

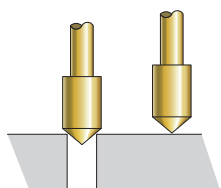
Example Of Use



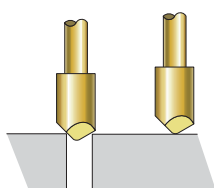
It is an introduction of suitable probe tip shape to the use part and shape state.

For through holes

NH
Needle Head



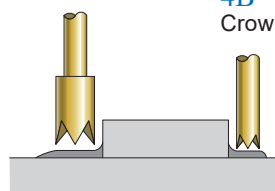
AH
Trigonal Pyramid R Head



For soldering surface, surface mounting, appearing parts of the lead

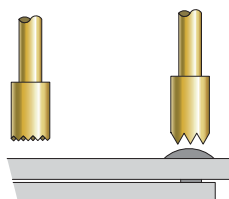
4H
Crown Head 4-Point

4B
Crown 4-Point



For soldering surface, appearing parts of the lead, uneven surface

MH
Mesh Head

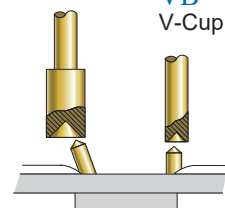


9H
Crown Head 9-Point

For measuring terminals, connectors

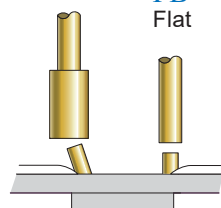
VH
V-Cup Head

VB
V-Cup



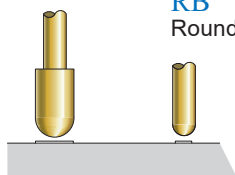
FH
Flat Head

FB
Flat



For printed circuit boards, flat cables etc., (hard to injure a contact surface)

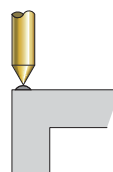
RH
Round Shaft Head



RB
Round Shaft

For narrow pitch place

NB
Needle



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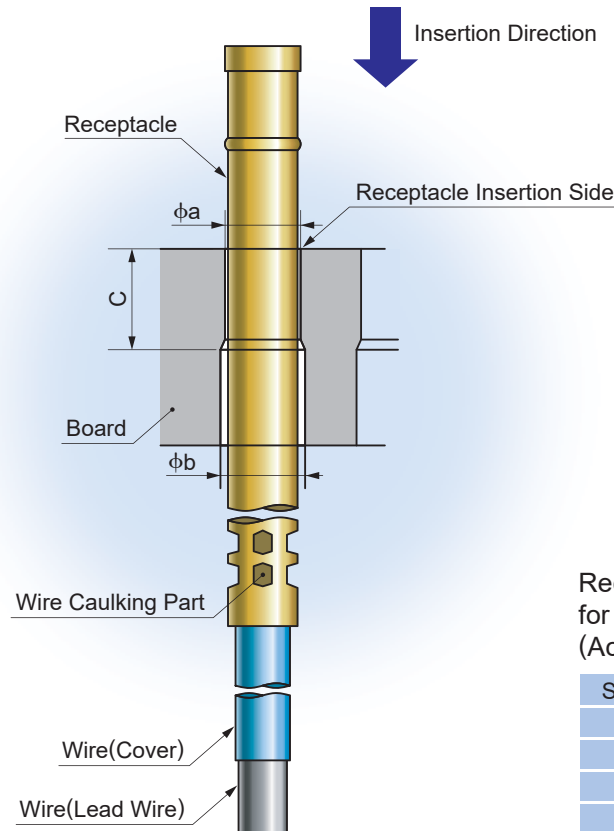
Address : 3-10-8, Nohagi 1st Bldg, Minami-Ikebukuro, Toshima-ku, Tokyo, 171-0022, Japan.
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e-custom_head-02

Recommended hole diameter of the board and precautions for use

Recommended hole diameter of the board



Recommended hole diameter of the board for the series compatible receptacle diameter (Acrylic · Bakelite)

Series	ϕa	ϕb	c
050	$\phi 0.70$	ϕa Through	
040	$\phi 0.57$	ϕa Through	
031	$\phi 0.38$ or more		4.0
026	$\phi 0.35$ or more		3.0

Probe precautions for use

- If it is pushed for more than 2/3 stroke, it may cause damage, so please use less than 2/3 stroke.
- The life cycle varies depending on the number of times of repetition and usage environment.

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Web Site : <http://www.mkt-taisei.co.jp/>

e-socket_probe-03

TP020 series Recommended Pitch 0.45 mm

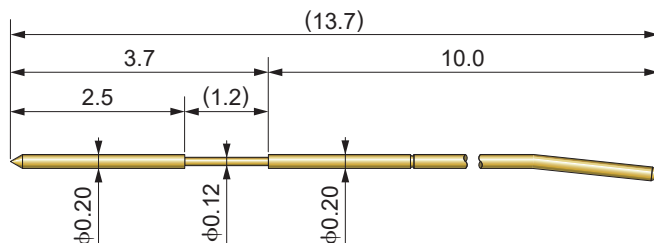


Probe Standard Items

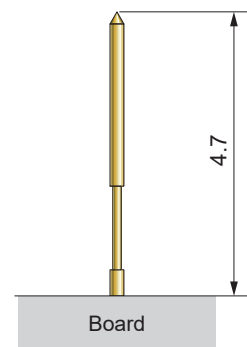
Unit:mm

TP020-NHC01-00

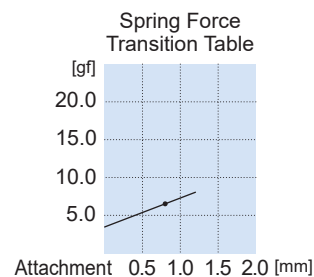
Needle Head 60°



Probe Protruding Quantity
when Inserting into RT020

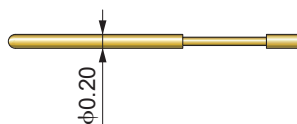


Stroke	1.2 mm	
Spring Force	3.46 gf	Preload
	6.52 gf	0.8 mm Recommended Stroke
Max. Current	1 A	
Parts Name	Material	Finish
Plunger	Steel	Au Plated
Barrel	Phosphor Bronze	Au Plated
Spring	Piano Wire	Au Plated



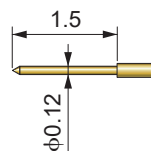
TP020-RHC01-00

Round Shaft Head



TP020-NBC01-00

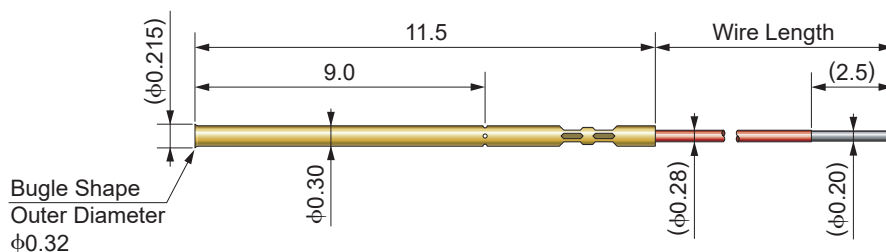
Needle 60°



*Stroke Quantity 1.5mm

Correspondence Receptacle Standard Items

Unit:mm



Wire Color	Product Name	Parts Name	Material	Finish
Red	RT020-RR00	Receptacle	Phosphor Bronze	Au Plated
Green	RT020-RG00	Wire	Polyurethane Copper Wire	
Wireless	RT020-RA00			

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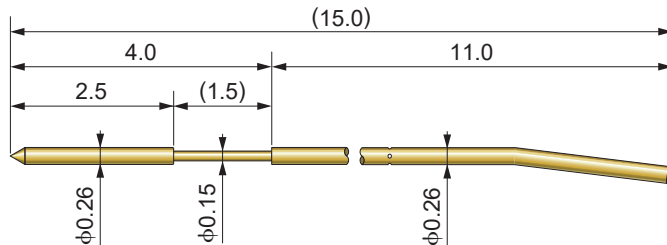
e-tp020-03

Probe Standard Items

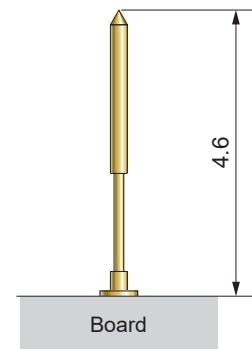
Unit:mm

TP026-NHC01-00

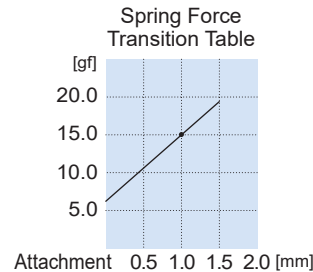
Needle Head 60°



Probe Protruding Quantity
when Inserting into RT026



Stroke	1.5 mm	
Spring Force	6.22 gf	Preload
	15.0 gf	1.0 mm Recommended Stroke
Max. Current	1 A	
Parts Name	Material	Finish
Plunger	Steel	Au Plated
Barrel	Phosphor Bronze	Au Plated
Spring	Piano Wire	Au Plated



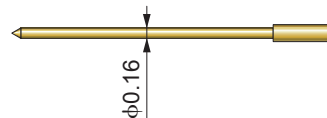
TP026-RHC01-00

Round Shaft Head



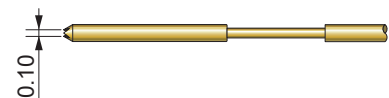
TP026-NBC01-00

Needle 60°



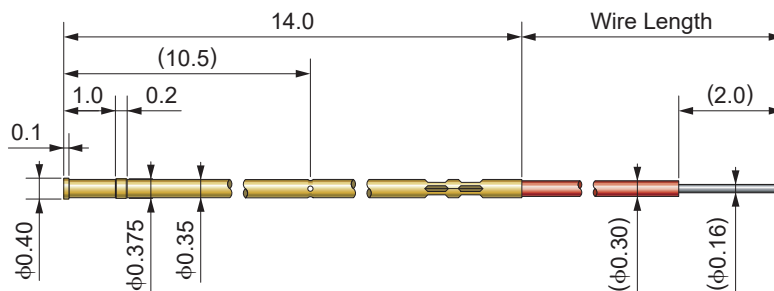
TP026-4WC01-00

Crown 4-Point Taper Head



Correspondence Receptacle Standard Items

Unit:mm



Wire Color	Product Name	Parts Name	Material	Finish
Red	RT026-BR11	Receptacle	Phosphor Bronze	Au Plated
Blue	RT026-BB11	Wire Insulator	Fluorine Resin	
Wireless	RT026-BA11	Wire Conductor	Silver Plated Annealed Copper Wire	

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e-tp026-03

TP031 series Recommended Pitch 0.60 mm

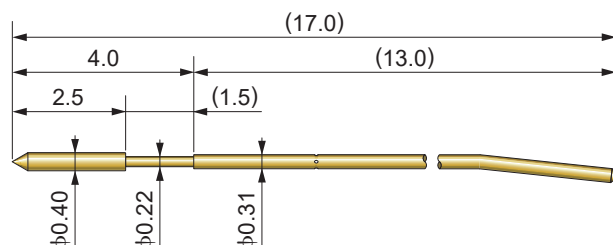


Probe Standard Items

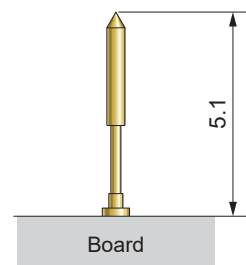
Unit:mm

TP031-NHC03-00

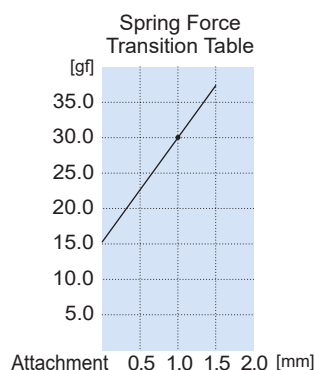
Needle Head 60°



Probe Protruding Quantity
when Inserting into RT031



Stroke	1.5 mm	
Spring Force	15.3 gf	Preload
	30.0 gf	1.0 mm Recommended Stroke
Max. Current	1 A	
Parts Name	Material	Finish
Plunger	Steel	Au Plated
Barrel	Phosphor Bronze	Au Plated
Spring	Piano Wire	Au Plated



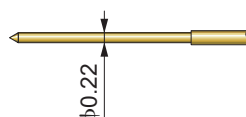
TP031-RHC03-00

Round Shaft Head



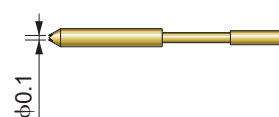
TP031-NBC03-00

Needle 60°



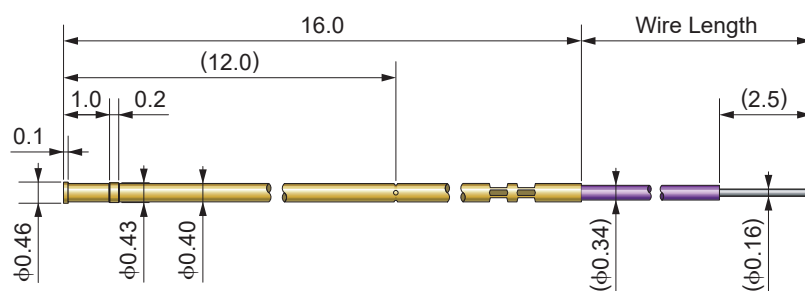
TP031-4WC03-00

Crown 4-Point Taper Head



Correspondence Receptacle Standard Items

Unit:mm



Wire Color	Product Name	Parts Name	Material	Finish
Purple	RT031-BP11	Receptacle	Phosphor Bronze	Au Plated
Yellow	RT031-BY11	Wire Insulator	Fluorine Resin	
Wireless	RT031-BA11	Wire Conductor	Silver Plated Annealed Copper Wire	

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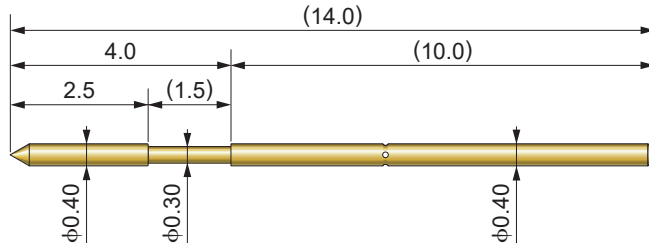
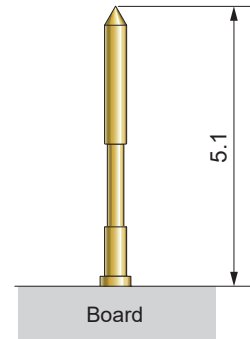
e-tp031-03

Probe Standard Items

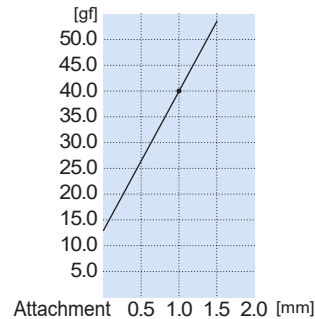
Unit:mm

TP040-NHC04-00

Needle Head 60°


Probe Protruding Quantity
when Inserting into RT040


Stroke	1.5 mm	
Spring Force	13.0 gf	Preload
	40.0 gf	1.0 mm Recommended Stroke
Max. Current	1 A	
Parts Name	Material	Finish
Plunger	Steel	Au Plated
Barrel	Phosphor Bronze	Au Plated
Spring	Piano Wire	Au Plated

Spring Force
Transition Table


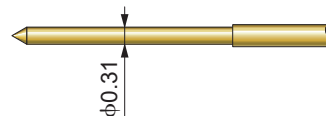
TP040-RHC04-00

Round Shaft Head



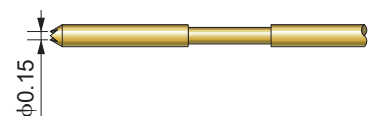
TP040-NBC04-00

Needle 60°



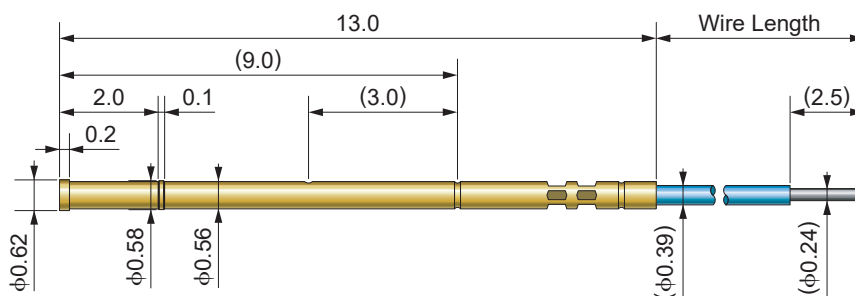
TP040-4WC04-00

Crown 4-Point Taper Head



Correspondence Receptacle Standard Items

Unit:mm



Wire Color	Product Name	Parts Name	Material	Finish
Blue	RT040-BB00	Receptacle	Phosphor Bronze	Au Plated
Orange	RT040-BD00	Wire Insulator	Fluorine Resin	
Wireless	RT040-BA00	Wire Conductor	Silver Plated Annealed Copper Wire	

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e-tp040-03

TP050 series Recommended Pitch 0.90 mm

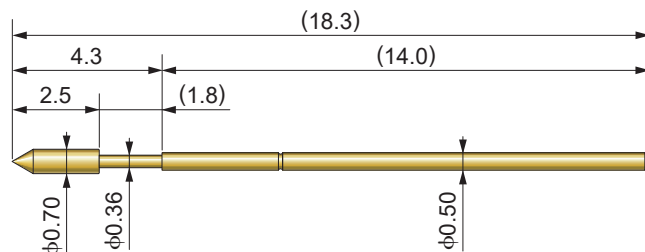


Probe Standard Items

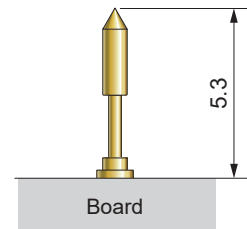
Unit:mm

TP050-NHC04-00

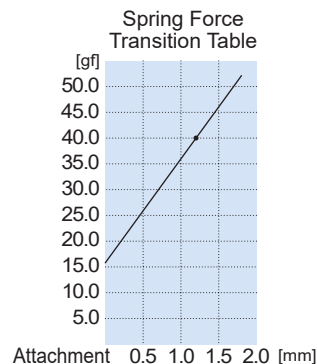
Needle Head 60°



Probe Protruding Quantity
when Inserting into RT050



Stroke	1.8 mm	
Spring Force	15.8 gf	Preload
	40.0 gf	1.2 mm Recommended Stroke
Max. Current	1 A	
Parts Name	Material	Finish
Plunger	Steel	Au Plated
Barrel	Phosphor Bronze	Au Plated
Spring	Piano Wire	Au Plated



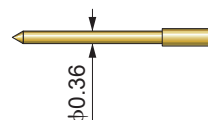
TP050-RHC04-00

Round Shaft Head



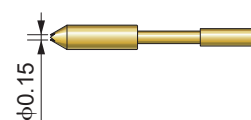
TP050-NBC04-00

Needle 60°



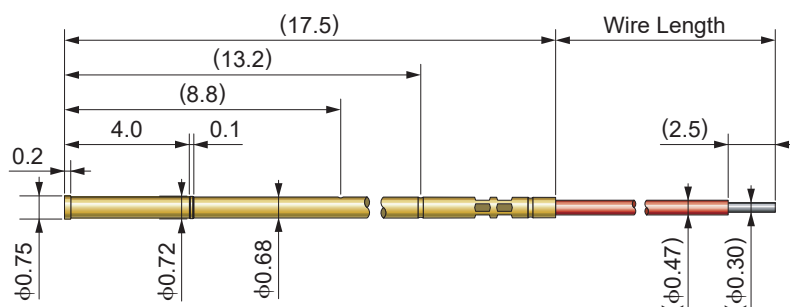
TP050-4WC04-00

Crown 4-Point Taper Head



Correspondence Receptacle Standard Items

Unit:mm



Wire Color	Product Name	Parts Name	Material	Finish
Red	RT050-BR00	Receptacle	Phosphor Bronze	Au Plated
White	RT050-BW00	Wire Insulator	Fluorine Resin	
Wireless	RT050-BA00	Wire Conductor	Silver Plated Annealed Copper Wire	

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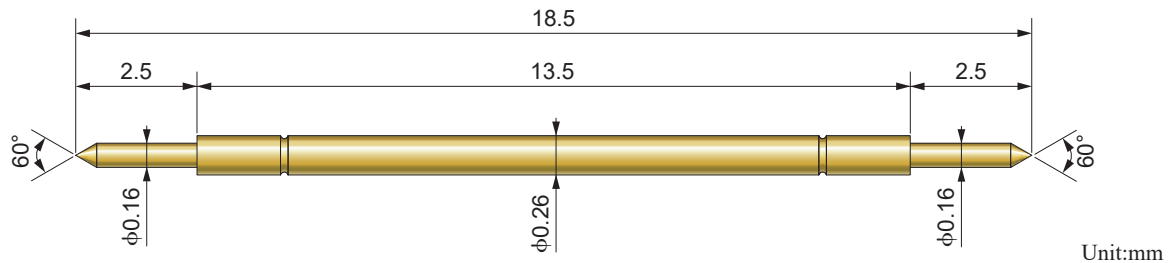
Phone : +81-3-3982-0029 / FAX : +81-3-3986-1537

Web Site : <http://www.mkt-taisei.co.jp/>

e-tp050-03

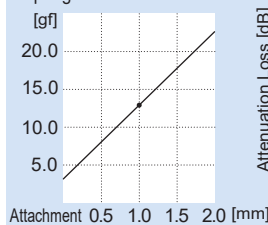
■ TW026-NB / NB-02

Tip Needle × Needle

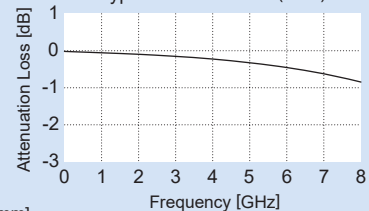


Stroke	2.0 mm		
Spring Force	3.16 gf	Preload	
	12.95±2.54 gf	1.0 mm Recommended Stroke	
Max. Current	0.5 A		
Parts Name	Material	Finish	Application
Plunger	Steel	Au Plated	Needle
Plunger	Steel	Au Plated	Needle
Barrel	Phosphor Bronze	Au Plated	
Spring	Piano Wire	Au Plated	

Spring Force Transition Table

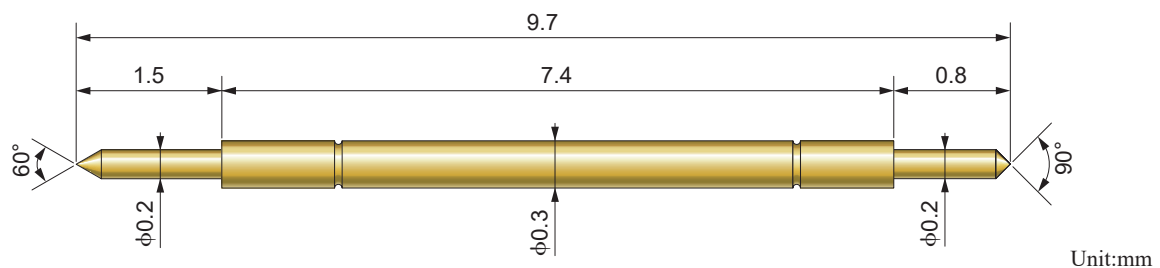


Typical Performance (TYP)



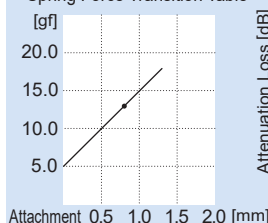
■ TW030-NB / NB-00

Tip Needle × Needle

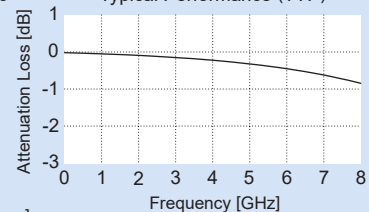


Stroke	1.3 mm		
Spring Force	5.0 gf	Preload	
	12.95±2.54 gf	0.8 mm Recommended Stroke	
Max. Current	0.5 A		
Parts Name	Material	Finish	Application
Plunger	Steel	Au Plated	Needle
Plunger	Steel	Au Plated	Needle
Barrel	Phosphor Bronze	Au Plated	
Spring	Piano Wire	Au Plated	

Spring Force Transition Table



Typical Performance (TYP)



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Address : 3-10-8, Nohagi 1st Bldg, Minami-Ikebukuro, Toshima-ku, Tokyo, 171-0022, Japan.

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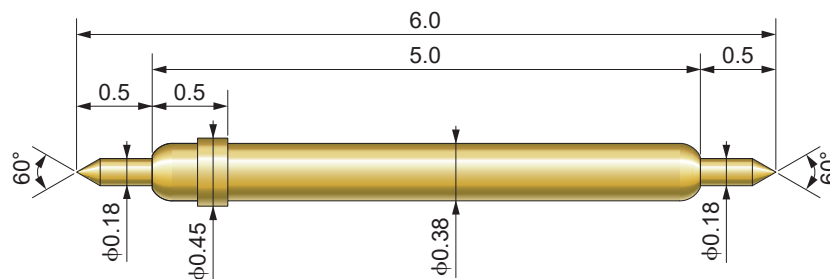
e-tw026-030-01

TW038 series Recommended Pitch 0.80 mm



■ TW038-NB / NB-50

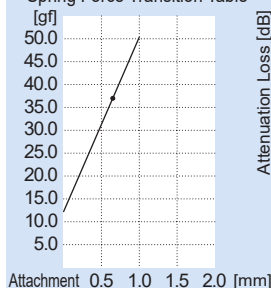
Tip Needle × Needle



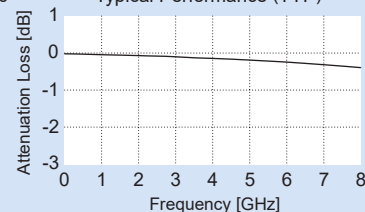
Unit:mm

Stroke	1.0 mm		
Spring Force	12.23 gf	Preload	
	37.0±7.44 gf	0.65 mm Recommended Stroke	
Max. Current	1.0 A		
Parts Name	Material	Finish	Application
Plunger	Beryllium Copper	Au Plated	Needle
Plunger	Beryllium Copper	Au Plated	Needle
Barrel	Phosphor Bronze	Au Plated	
Spring	Piano Wire	Au Plated	

Spring Force Transition Table

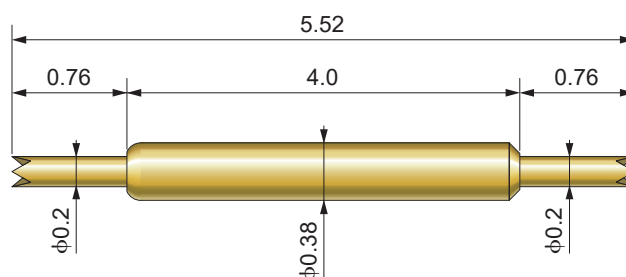


Typical Performance (TYP)



■ TW038-4B / 4B-50

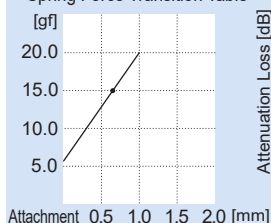
Tip Crown 4-Point × Crown 4-Point



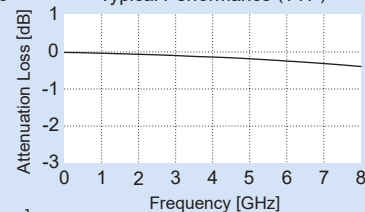
Unit:mm

Stroke	1.0 mm		
Spring Force	5.7 gf	Preload	
	15.0±3.0 gf	0.65 mm Recommended Stroke	
Max. Current	1.0 A		
Parts Name	Material	Finish	Application
Plunger	Beryllium Copper	Au Plated	Crown 4-Point
Plunger	Beryllium Copper	Au Plated	Crown 4-Point
Barrel	Phosphor Bronze	Au Plated	
Spring	Piano Wire	Au Plated	

Spring Force Transition Table



Typical Performance (TYP)



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Address : 3-10-8, Nohagi 1st Bldg, Minami-Ikebukuro, Toshima-ku, Tokyo, 171-0022, Japan.

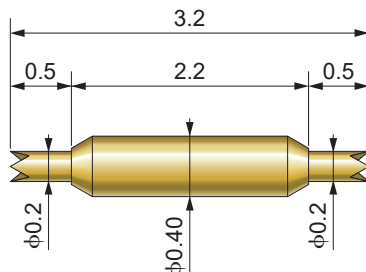
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e-tw038-02

■ TW040-4B / 4B-00

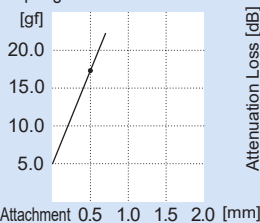
Tip Crown 4-Point × Crown 4-Point



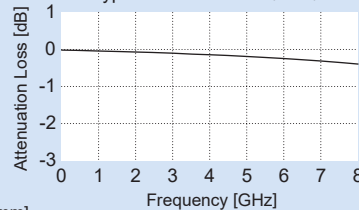
Unit:mm

Stroke	0.7 mm		
Spring Force	5.0 gf	Preload	
	17.3±3.46 gf	0.5 mm Recommended Stroke	
Max. Current	1.0 A		
Parts Name	Material	Finish	Application
Plunger	Beryllium Copper	Au Plated	Crown 4-Point
Plunger	Beryllium Copper	Au Plated	Crown 4-Point
Barrel	Phosphor Bronze	Au Plated	
Spring	Piano Wire	Au Plated	

Spring Force Transition Table

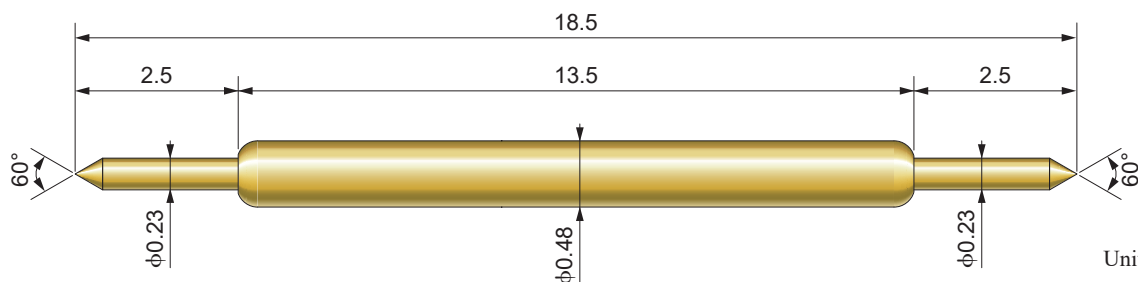


Typical Performance (TYP)



■ TW048-NB / NB-01

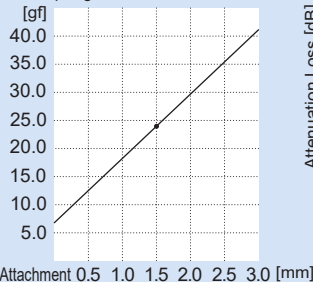
Tip Needle × Needle



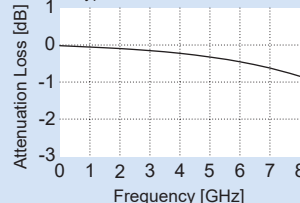
Unit:mm

Stroke	3.0 mm		
Spring Force	6.8 gf	Preload	
	23.96±4.79 gf	1.5 mm Recommended Stroke	
Max. Current	1.0 A		
Parts Name	Material	Finish	Application
Plunger	Steel	Au Plated	Needle
Plunger	Steel	Au Plated	Needle
Barrel	Phosphor Bronze	Au Plated	
Spring	Piano Wire	Au Plated	

Spring Force Transition Table



Typical Performance (TYP)



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Sales Office **MKT TAISEI Co.,Ltd.**

Address : 3-10-8, Nohagi 1st Bldg, Minami-Ikebukuro, Toshima-ku, Tokyo, 171-0022, Japan.
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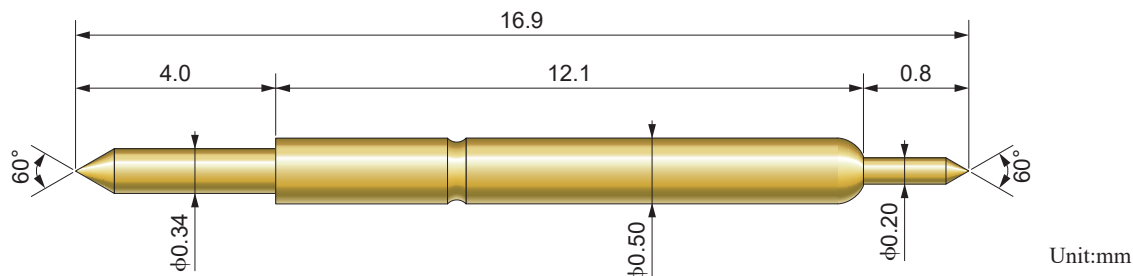
e-tw040-048-01

TW050 series Recommended Pitch 0.80 mm

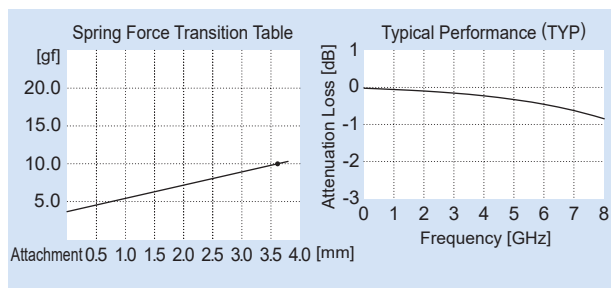


■ TW050-NB / NB-00

Tip Needle × Needle

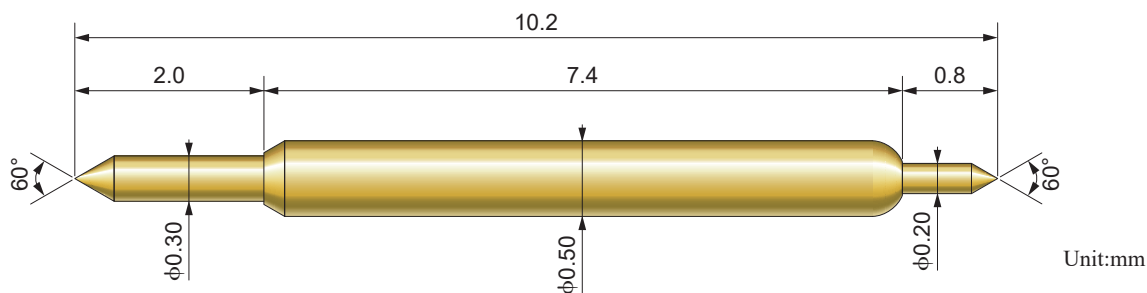


Stroke	3.8 mm		
Spring Force	3.67 gf	Preload	
	10.0±2.0 gf	3.6 mm Recommended Stroke	
Max. Current	1.0 A		
Parts Name	Material	Finish	Application
Plunger	Steel	Au Plated	Needle
Plunger	Steel	Au Plated	Needle
Barrel	Phosphor Bronze	Au Plated	
Spring	Piano Wire	Au Plated	

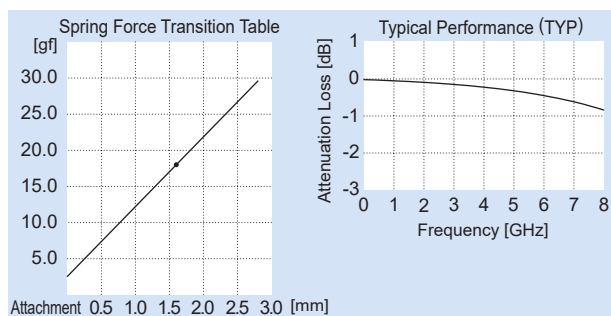


■ TW050-NB / NB-01

Tip Needle × Needle



Stroke	2.8 mm		
Spring Force	2.55 gf	Preload	
	18.0±3.57 gf	1.6 mm Recommended Stroke	
Max. Current	1.0 A		
Parts Name	Material	Finish	Application
Plunger	Beryllium Copper	Au Plated	Needle
Plunger	Beryllium Copper	Au Plated	Needle
Barrel	Phosphor Bronze	Au Plated	
Spring	Piano Wire	Au Plated	



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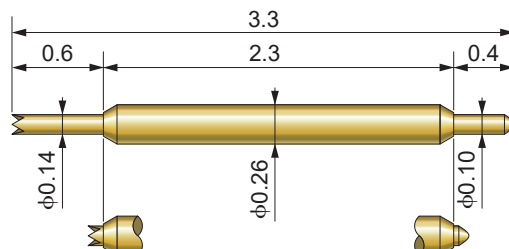
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e-tw050-01

SP260-4B / RT-01 L=3.3

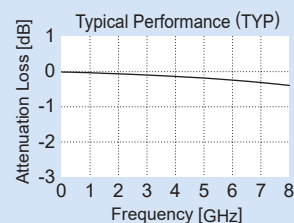
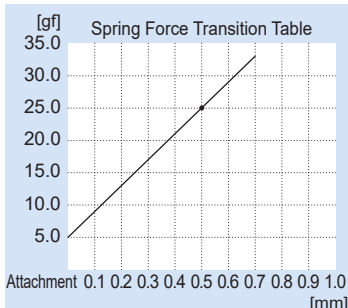
Tip Crown 4-Point × Round Shaft Taper



Unit:mm

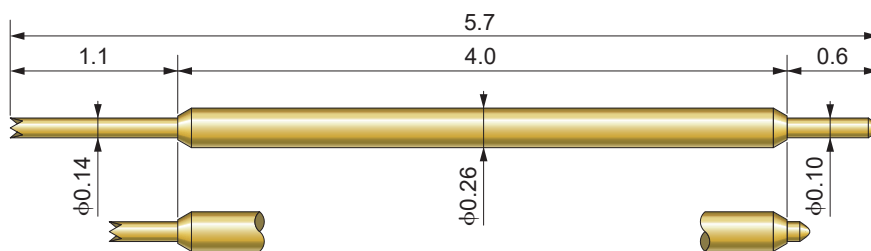
Full Length(mm)	3.30	Mechanical Durability (Times or more)	200k
Recommended Stroke	0.50		
Load(gf)	25.0 @0.50mm	Max. Current(A)	1.0
Full Stroke(mm)	0.70	Contact Resistance(mΩ)	<100
		Working Temp.(°C)	-40~125

Parts Name	Material	Finish	Application
Plunger	Beryllium Copper	Au Plated	DUT side Crown 4-Point
Plunger	Beryllium Copper	Au Plated	I.F.side Round Shaft Taper
Barrel	NiAu	-	
Spring	Piano Wire	Au Plated	



SP260-4B / RT-00 L=5.7

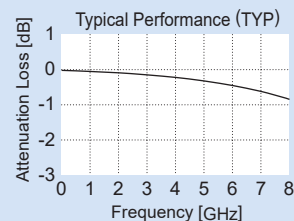
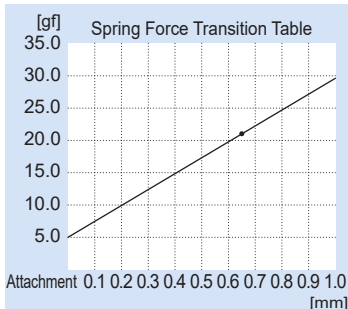
Tip Crown 4-Point × Round Shaft Taper



Unit:mm

Full Length(mm)	5.70	Mechanical Durability (Times or more)	300k
Recommended Stroke	0.65		
Load(gf)	21.0 @0.65mm	Max. Current(A)	1.0
Full Stroke(mm)	1.00	Contact Resistance(mΩ)	<100
		Working Temp.(°C)	-40~125

Parts Name	Material	Finish	Application
Plunger	Beryllium Copper	Au Plated	DUT side Crown 4-Point
Plunger	Beryllium Copper	Au Plated	I.F.side Round Shaft Taper
Barrel	NiAu	-	
Spring	Piano Wire	Au Plated	



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Address : 3-10-8, Nohagi 1st Bldg, Minami-Ikebukuro, Toshima-ku, Tokyo, 171-0022, Japan.
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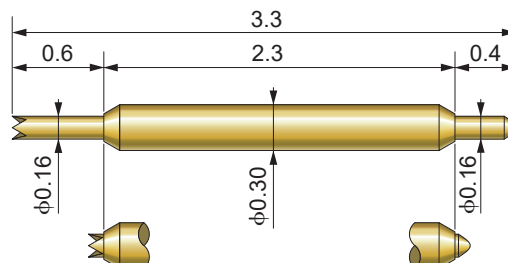
e-sp260-02

SP300 series For IC Receptacle Recommended Pitch 0.40 mm



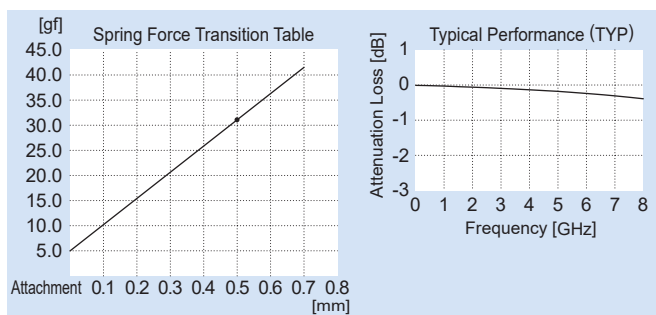
■ SP300-4B / RT-00 L=3.3

Tip Crown 4-Point × Round Shaft Taper



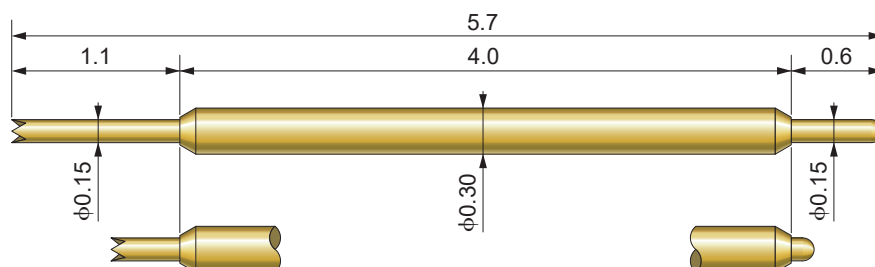
Unit:mm

Full Length(mm)	3.30	Mechanical Durability (Times or more)	200k
Recommended Stroke	0.50	Max. Current(A)	1.0
Load(gf)	31.2 @0.50mm	Contact Resistance(mΩ)	<100
Full Stroke(mm)	0.70	Working Temp.(°C)	-40~125
Parts Name	Material	Finish	Application
Plunger	Beryllium Copper	Au Plated	DUT side Crown 4-Point
Plunger	Beryllium Copper	Au Plated	I.F. side Round Shaft Taper
Barrel	NiAu	—	
Spring	Piano Wire	Au Plated	



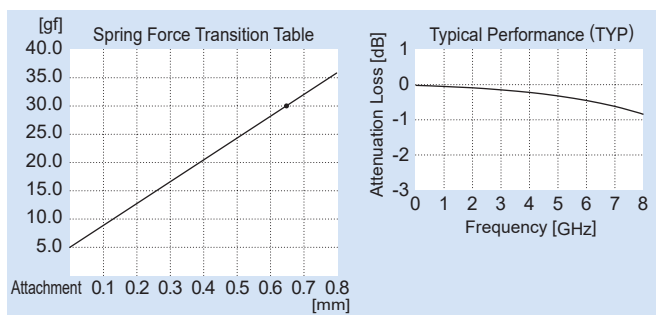
■ SP300-4B / RB-00 L=5.7

Tip Crown 4-Point × Round Shaft



Unit:mm

Full Length(mm)	5.70	Mechanical Durability (Times or more)	1M
Recommended Stroke	0.65	Max. Current(A)	1.6
Load(gf)	30.0 @0.65mm	Contact Resistance(mΩ)	<100
Full Stroke(mm)	0.80	Working Temp.(°C)	-40~125
Parts Name	Material	Finish	Application
Plunger	Beryllium Copper	Au Plated	DUT side Crown 4-Point
Plunger	Beryllium Copper	Au Plated	I.F. side Round Shaft
Barrel	NiAu	—	
Spring	Piano Wire	Au Plated	



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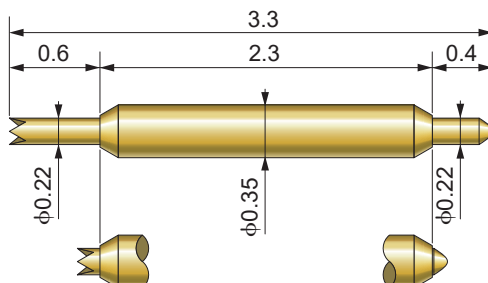
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e-sp300-02

SP350-4B / RT-00 L=3.3

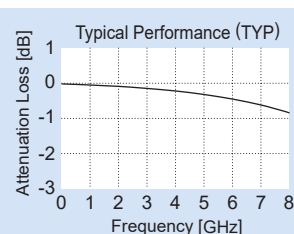
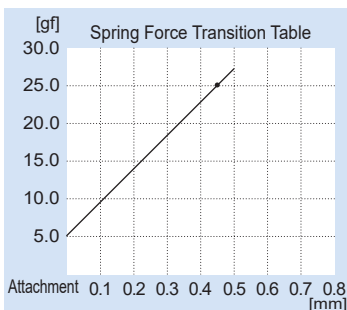
Tip Crown 4-Point × Round Shaft Taper



Unit:mm

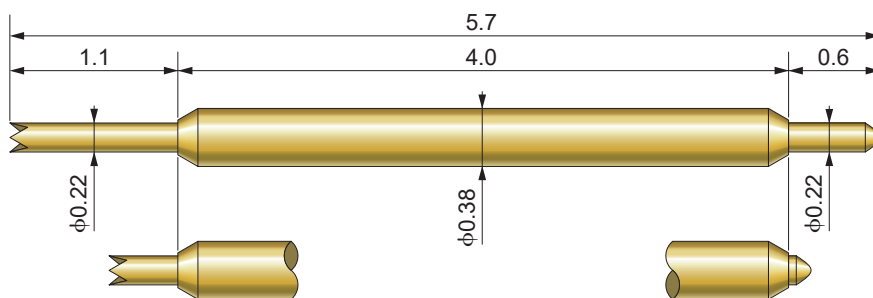
Full Length(mm)	3.30	Mechanical Durability (Times or more)	300k
Recommended Stroke	0.45		
Load(gf)	25.0 @0.45mm	Max. Current(A)	2.0
Full Stroke(mm)	0.50	Contact Resistance(mΩ)	<100
		Working Temp.(°C)	-40~125

Parts Name	Material	Finish	Application
Plunger	Beryllium Copper	Au Plated	DUT side Crown 4-Point
Plunger	Beryllium Copper	Au Plated	I.F. side Round Shaft Taper
Barrel	NiAu	—	
Spring	Piano Wire	Au Plated	



SP380-4B / RT-00 L=5.7

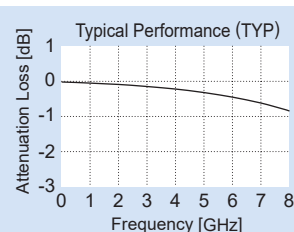
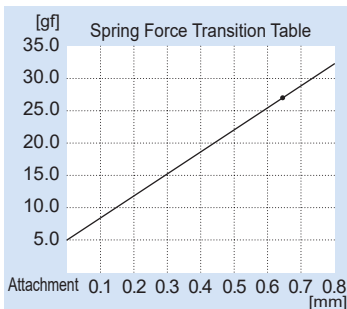
Tip Crown 4-Point × Round Shaft Taper



Unit:mm

Full Length(mm)	5.70	Mechanical Durability (Times or more)	1M
Recommended Stroke	0.65		
Load(gf)	27.0 @0.65mm	Max. Current(A)	1.6
Full Stroke(mm)	0.80	Contact Resistance(mΩ)	<100
		Working Temp.(°C)	-40~125

Parts Name	Material	Finish	Application
Plunger	Beryllium Copper	Au Plated	DUT side Crown 4-Point
Plunger	Beryllium Copper	Au Plated	I.F. side Round Shaft Taper
Barrel	NiAu	—	
Spring	Piano Wire	Au Plated	



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e-sp350-380-02



TAISEI Co.,Ltd.

HEAD OFFICE 6972, Shimo-yoshida, Chichibu-shi, Saitama-ken, 369-1593, Japan.
TEL:81-494-77-1211 FAX:81-494-77-1415

URL : <http://www.mkt-raisei.co.jp/>