

Contact Probes, Receptacles

Minimum Mounting Pitch 1.4mm / 1.5mm / 1.7mm Series

■ **Features:** Receptacle's stopper portion is machined slightly smaller in I.D. to avoid probes from being pressed in too far.

■ **Contact Probes - Minimum Mounting Pitch 1.4mm**

■ **Receptacles - Minimum Mounting Pitch 1.4mm**

NP68SF
NP68

■ **Contact Probes**

No.	Part	Material	Surface Treatment
①	Plunger	SK4	Rhodium Plating on Nickel Undercoat
②	Barrel	Phosphor Bronze	Gold Plating on Nickel Undercoat
③	Spring	SWP	Gold Plating

■ **Receptacles**

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

■ **Contact Probes**

No.	Part	Material	Surface Treatment
①	Plunger	C1730B	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	Stainless Steel	-

* For NP45HD, the material of spring is SWP.

■ **Receptacles**

No.	Material	Surface Treatment
④ ⑤	Brass	Gold Plating on Nickel Undercoat

⚠ The receptacle has a stopper that prevents the probe from being pulled out.

• NP68SF and NP68 Tip Shapes

⚠ Tip Shape K is not available for NP68SF.

A

B

C

D

E

G

H (Quartered)

J

K

N

AS

■ **Receptacles End Shapes**

NR68 Solder, Crimp Type

NR68S Solder Type

■ **Contact Probes - Minimum Mounting Pitch 1.5mm**

■ **Receptacles - Minimum Mounting Pitch 1.5mm**

NP88
NP88HD

■ **Contact Probes**

No.	Part	Material	Surface Treatment
①	Plunger	SK4	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	SWP	Gold Plating

■ **Receptacles**

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

■ **Contact Probes**

No.	Part	Material	Surface Treatment
①	Plunger	SK4	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	SWP	Gold Plating

■ **Receptacles**

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

• NP88 and NP88HD Tip Shapes

A (Quartered)

B

C

D

E

G

H (Quartered)

J

N

■ **Contact Probes - Minimum Mounting Pitch 1.7mm**

■ **Receptacles - Minimum Mounting Pitch 1.7mm**

NP45S3SF
NP45S3

■ **Contact Probes**

No.	Part	Material	Surface Treatment
①	Plunger	SK4	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	Stainless Steel	-

■ **Receptacles**

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

■ **Contact Probes**

No.	Part	Material	Surface Treatment
①	Plunger	SK4	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	Stainless Steel	-

■ **Receptacles**

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

• NP45S3SF, NP45S3 Tip Shapes

* For Tip Shape B, D, E15 and J, the material of plunger is C1730B.

A

B

C

D

E15

G

H (Quartered)

J

N

■ **NR45S End Shapes**

B Solder, Crimp Type

C Solder Type

■ **Contact Probes - Minimum Mounting Pitch 1.7mm**

■ **Receptacles - Minimum Mounting Pitch 1.7mm**

NP45SF
NP45
NP45HD

■ **Contact Probes**

No.	Part	Material	Surface Treatment
①	Plunger	C1730B	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	Stainless Steel	-

* For NP45HD, the material of spring is SWP.

■ **Receptacles**

No.	Material	Surface Treatment
④ ⑤	Brass	Gold Plating on Nickel Undercoat

⚠ The receptacle has a stopper that prevents the probe from being pulled out.

■ **Contact Probes**

No.	Part	Material	Surface Treatment
①	Plunger	C1730B	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	Stainless Steel	-

* For NP45HD, the material of spring is SWP.

■ **Receptacles**

No.	Material	Surface Treatment
④ ⑤	Brass	Gold Plating on Nickel Undercoat

⚠ The receptacle has a stopper that prevents the probe from being pulled out.

• NP45SF, NP45, NP45HD Tip Shapes

* For Tip Shape C, the material of plunger is SK4.

A

B

C

D

E

G

H (Quartered)

J

N

AS

■ **NR45 End Shapes**

B Solder, Crimp Type

C Solder Type

■ Contact Probes										■ Receptacles									
Part Number	Mounting Pitch (mm)	Full Stroke	Spring Pressure Initial	2/3 Stroke	Allowable Current	Resistance	Replacement Cycle (Reference)	Unit Price (1-69 pcs)	Volume Discount Rate (70-99)	Volume Discount Rate (100-500)	Part Number	Matching Contact Probe	Mounting Hole for Press-Fitting Dimension (Reference)	Unit Price (1-69 pcs)	Volume Discount Rate (70-99)	Volume Discount Rate (100-500)			
NP68SF	1.4mm	4.3mm	25gf	50gf	1A	80mΩ	30,000 times				NR68	NP68SF	0.83~0.84mm						
NP68			30gf	90gf							NR68S	NP68S							
NP88	1.5mm	2.5mm	10gf	50gf	1.3A	80mΩ	250,000 times				NR88	NP88	1.08~1.09mm						
NP88HD			30gf	100gf							NR88	NP88HD							
NP45S3SF	1.7mm	3.0mm	25gf	50gf	1.5A	80mΩ	300,000 times				NR45S	NP45S3SF	1.39~1.41mm						
NP45S3			30gf	100gf							NR45S	NP45S3							
NP45SF	1.7mm	5.0mm	10gf	50gf	1.5A	80mΩ	300,000 times				NR45	NP45SF	1.39~1.41mm						
NP45			30gf	100gf							NR45	NP45							
NP45HD			40gf	150gf							NR45T	NP45HD	1.47~1.49mm						

⚠ For orders larger than indicated quantity, please request a quotation.

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■ Receptacles with Lead Wire										■ Receptacles											
Part Number	Lead Wire Color Selection	Lead Wire Length (mm)	Lead Wire	Lead	Maximum Operating Voltage	Receptacles Used	Lead Wire Length 400mm	Lead Wire Length 1000mm		Part Number	Matching Contact Probe	Mounting Hole for Press-Fitting Dimension (Reference)	Unit Price (1-69 pcs)	Volume Discount Rate (70-99)	Volume Discount Rate (100-500)	Part Number	Matching Contact Probe	Mounting Hole for Press-Fitting Dimension (Reference)	Unit Price (1-69 pcs)	Volume Discount Rate (70-99)	Volume Discount Rate (100-500)
NRB68	W (White)	400	0.063	0.12x7 pcs.	250V	NR68				NR68	NP68SF	0.83~0.84mm				NR88	NP88	1.08~1.09mm			
NRB88	R (Red)	1000	0.063	0.12x7 pcs.		NR88				NR88	NP88HD					NR45S-B	NP45S3SF				
NRB45	BL (Blue)		0.1	0.08x40 pcs.		NR45S-B				NR45S-B	NP45S3					NR45-B	NP45SF				
NRB45			0.1	0.08x40 pcs.		NR45-B				NR45-B	NP45						NR45HD				

⚠ For orders larger than indicated quantity, please request a quotation.

Ordering Example

Part Number - Tip (End) Shape - Lead Wire Color - Lead Wire Length

NP68SF - A - W - 1000

NP88 - C - W - 400

NR88 - B - W - 1000

NR45S - W - 400

NRB68 - W - 1000

NRB45 - W - 400

Example

Example of Inserting Contact Probe to Receptacle

1-1871

1-1872