

Contact Probes / Receptacles

Minimum Mounting Pitch 1.27 mm Series

Contact Probes

NP30 / NP30HD

NR30K

NR30SH-B

Contact Probes

No.	Parts	Material	Surface Treatment
(1)	Plunger	C1730B	Rhodium Plating on Nickel Undercoat
(2)	Barrel	German Silver	Gold Plating on Nickel Undercoat
(3)	Spring*	SWP	Gold Plating

*NP30HD spring material is Spring Steel.

Receptacles

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

Ⓢ The receptacle has a stopper that prevents the probe from falling out.

RoHS 10

*1 For tip shape K / AA, the diameter is $\varnothing 0.49$. *2 The tip length of certain tip shape is 4.0.

NP30 / NP30HD Tip Shapes Ⓢ Tip Shape E and J are not available for NP30HD. Ⓢ For NP30, no plating is applied to the spring.

A (Quartered)

B

C

D

E

G

GF

H (Quartered)

J

NP30 Tip Shapes Ⓢ The material of plunger is W1-9 Tool Steel. Ⓢ The material of spring is SPW.

C40

G40

H40 (Quartered)

J40

K

AA

AH

AS

B Solder / Crimp Type

C Solder Type

Contact Probes

NP72 / NP72HD

NR72K

Contact Probes

No.	Parts	Material	Surface Treatment
(1)	Plunger	W1-9 Tool Steel	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

Ⓢ The receptacle has a stopper that prevents the probe from falling out.

RoHS 10

NP72 / NP72HD Tip Shapes Ⓢ Tip Shape E and J are not available for NP72HD.

A

B

C

D

E

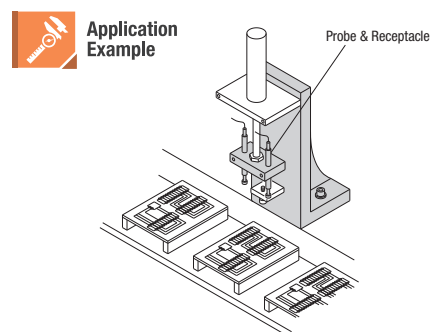
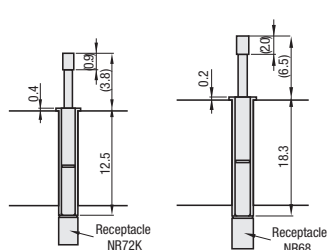
G

H

J

N

Example of Inserting Contact Probe to Receptacle



Contact Probes / Receptacles

Minimum Mounting Pitch 1.27 mm Series, *continued*

Contact Probes

NP68S3SF / NP68S3

NR68 / NR68S

Contact Probes

No.	Part	Material	Surface Treatment
(1)	Plunger	W1-9 Tool Steel	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

Ⓢ The receptacle has a stopper that prevents the probe from falling out.

RoHS 10

NP68S3SF / NP68S3 Tip Shapes Ⓢ Tip Shape K is not available for NP68S3.

A

B

D

E

G

K

NR68 Solder / Crimp Type

NR68S Solder Type

Contact Probes

NP76

NR76

Contact Probes

No.	Part	Material	Surface Treatment
(1)	Plunger	JIS-C1730B	Gold Plating on Nickel Undercoat
(2)	Barrel	Brass	Gold Plating on Nickel Undercoat
(3)	Spring	SWP	Gold Plating

Receptacles

Material	Surface Treatment
Phosphor Bronze	Gold Plating on Nickel Undercoat

Ⓢ The receptacle has a stopper that prevents the probe from falling out.

RoHS 10

NP76 Tip Shapes

A

C

D

H (Quartered)

AS

Contact Probes

Part Number	Mounting Pitch (min.)	Full Stroke (mm)	Spring Pressure		Allowable Current	Resistance	Replacement Cycle (Reference)
			Initial	2/3 Stroke			
NP30	1.27 mm	2.5 (2.0)	5 fg (40 fg)	45 fg (80 fg)	1A	100 mΩ	50,000 times
NP30HD			15 fg	46 fg			
NP72	1.27 mm	2.5	30 fg	50 fg	1A	80 mΩ	25,000 times
NP72HD			15 fg	100 fg			
NP68S3SF	1.27 mm	4.3	25 fg	50 fg	2A	80 mΩ	30,000 times
NP68S3			30 fg	90 fg			
NP76	1.27 mm	6.0	60 fg	150 fg	1.3A	80 mΩ	300,000 times

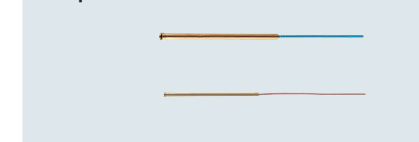
Ⓢ Full Stroke in () is applicable to Tip Shape C40 / E40 / G40 / H40 / J40 / K / AA / AH / AS.

Receptacles

Part Number	Matching Contact Probe	Mounting Hole for Press-Fitting Dimension (Reference)
NR30K	NP30	0.85–0.86 mm
NR30SH-B	NP30HD	0.87–0.88 mm
NR72K	NP72	0.88–0.89 mm
	NP72HD	
NR68	NP68S3SF	0.83–0.84 mm
NR68S	NP68S3	
NR76	NP76	0.97–0.98 mm

Ⓢ For NR30K / NR68 / NR68S, please select the end shape.

Receptacles with Lead Wire



Part Number	Lead Wire Color	Lead Wire Length (mm)	Lead Wire	Lead	Receptacle Used
NRKB30	W White R Red BL Blue	400 1000	00.4	00.08 x 7 pcs.	NR30K-B
NRSHB30			00.4	00.08 x 7 pcs.	NR30SH-B
NRKB72			00.63	00.12 x 7 pcs.	NR72K
NRB68			00.63	00.12 x 7 pcs.	NR68
NRB76			00.63	00.12 x 7 pcs.	NR76

Ⓢ 400mm lead wires are provided when the length is not selected.

Part Number Example

Part Number	Tip Shape	Lead Wire Color	Lead Wire Length
NP30	A		
NP68S3SF	A		
NR30K	B		
NR72K			
NRSHB30		R	1000
NRB68		w	1000