

Contact Probes / Receptacles

Minimum Mounting Pitch 1.4 / 1.5 / 1.7 mm Series

Contact Probes – Minimum Mounting Pitch 1.4mm

Receptacles – Minimum Mounting Pitch 1.4mm

There is a taper of -0.01 ~ -0.02mm from the bottom of the flange to the end.

Contact Probes

No.	Parts	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	Spring Steel	Gold Plating

Receptacles

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

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

NP68SF NP68

NR68 NR68S

RoHS10

NP68SF, 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

NR68S Solder Type

Contact Probes – Minimum Mounting Pitch 1.5mm

Receptacles – Minimum Mounting Pitch 1.5mm

There is a taper of -0.02 ~ -0.03mm from the bottom of the flange to the end.

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	Spring Steel	Gold Plating

Receptacles

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

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

NP88 NP88HD

NR88

RoHS10

NP88 / NP88HD Tip Shapes

A (Quartered)	B	C	D	E	G	H (Quartered)	J	N
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Contact Probes – Minimum Mounting Pitch 1.7mm

Receptacles – Minimum Mounting Pitch 1.7mm

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	Stainless	—

Receptacles

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

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

NP45S3SF NP45S3

NR45S

RoHS10

NP45S3SF, NP45S3 Tip Shapes

A	B	C	D	E15	G	H (Quartered)	J	N
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Receptacles End Shapes

B Solder / Crimp Type

C Solder Type

Contact Probes / Receptacles / Receptacles with Lead Wire

Minimum Mounting Pitch 1.7 mm Series

Contact Probes – Minimum Mounting Pitch 1.7mm

Receptacles – Minimum Mounting Pitch 1.7mm

NR45T (Terminal Type)
Applicable Terminal P:1980

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	—

*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 falling out.

NP45SF NP45 NP45HD

NR45

NR45T

RoHS10

NP45SF / NP45 / NP45HD Tip Shapes *For Tip Shape C, the material of plunger is W1-9 Tool Steel.

A	B	C	D	E
G	H (Quartered)	J	N	AS

NR45 End Shapes

B Solder / Crimp Type

C Solder Type

Contact Probes

Part Number	Mounting Pitch (min.)	Full Stroke (mm)	Spring Pressure		Allowable Current	Resistance	Replacement Cycle (Reference)
			Initial	2/3 Stroke			
NP68SF	1.4 mm	4.3	25 fg	50 fg	1A	80 mΩ	30,000 times
NP68			30 fg	90 fg			
NP88	1.5 mm	2.5	10 fg	50 fg	1.3A	80 mΩ	250,000 times
NP88HD			30 fg	100 fg			
NP45S3SF	1.7 mm	3.0	25 fg	50 fg	1.5A	80 mΩ	300,000 times
NP45S3			30 fg	100 fg			
NP45SF	1.7 mm	5.0	10 fg	50 fg	1.5A	80 mΩ	300,000 times
NP45			30 fg	100 fg			
NP45HD			40 fg	150 fg			

Receptacles

Part Number	Matching Contact Probe	Mounting Hole for Press-Fitting Dimension (Reference)
NR68	NP68SF	0.83~0.84 mm
NR68S	NP68	
NR88	NP88	1.08~1.09 mm
NR88HD	NP88HD	
NR45S	NP45S3SF	1.39~1.41 mm
NR45S3	NP45S3	
NR45	NP45SF	1.39~1.41 mm
NR45	NP45	
NR45T	NP45HD	1.47~1.49 mm

ⓘ For NR68 / NR68S / NR45S / NR45, please select the end shape.

Receptacles with Lead Wire

Part Number	Lead Wire Color	Lead Wire Length (mm)	Lead Wire	Lead	Receptacle Used
NRB68	W White R Red BL Blue	400 1000	0.63	0.12 x 7 pcs.	NR68
NRB88			0.63	0.12 x 7 pcs.	NR88
NRSB45			0.10	0.08 x 40 pcs.	NR45S-B
NRB45			0.10	0.08 x 40 pcs.	NR45-B

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

Part Number 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 - B - W - 400

NRB68 - W - 1000

NRSB45 - W - 400

Application Example

Example of Inserting Contact Probe to Receptacle

