

Contact Probes / Receptacles

Minimum Mounting Pitch 0.5 / 0.6 / 0.8 mm Series

Contact Probes – Minimum Mounting Pitch 0.5mm

Receptacles – Minimum Mounting Pitch 0.5mm

RoHS 10

NP26

NR26

Contact Probes

No.	Parts	Material	Surface Treatment
(1)	Plunger	W1-9 Tool Steel	Gold Plating on Nickel Undercoat
(2)	Barrel	Phosphor Bronze	Gold Plating on Nickel Undercoat
(3)	Spring	SWP	Gold Plating

*The tip length of certain tip shape is 2.0.
Ⓢ Fall out prevention measure.

Receptacles

Material	Surface Treatment
Phosphor Bronze	Gold Plating on Nickel Undercoat

NP26 Tip Shapes

A (Quartered)	B	C	D	E	G	H (Quartered)	N
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Contact Probes – Minimum Mounting Pitch 0.6mm

Receptacles – Minimum Mounting Pitch 0.6mm

RoHS 10

NP31

NP31HD

NR31

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	SWP	Gold Plating

*The tip length of certain tip shape is 2.0.
Ⓢ Fall out prevention measure.

Receptacles

Material	Surface Treatment
Phosphor Bronze	Gold Plating on Nickel Undercoat

NP31 / NP31HD Tip Shapes Ⓢ Tip Shape D / G / J are not available for NP31HD.

A (Quartered)	B	C	D	E	G	H (Quartered)	J	N
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Contact Probes – Minimum Mounting Pitch 0.8mm

Receptacles – Minimum Mounting Pitch 0.8mm

RoHS 10

NP38

NR38

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	SWP	Gold Plating

*The tip length of certain tip shape is 2.0.
Ⓢ Probes come with fall-off prevention features.

Receptacles

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

NP38 Tip Shapes

A (Quartered)	B	C	D	E	G	H (Quartered)	J	N	AS
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Contact Probes / Receptacles

Minimum Mounting Pitch 0.9 / 1.0 mm Series

Contact Probes – Minimum Mounting Pitch 0.9mm

Receptacles – Minimum Mounting Pitch 0.9mm

RoHS 10

NP20

NR20K

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

*The tip length of certain tip shape is 3.0.
Ⓢ The receptacle has a stopper that prevents the probe from falling out.
Ⓢ The end shape of receptacle can be selected from Receptacle End Shapes below.

Receptacles

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

NP20 Tip Shapes *For Tip Shape C / J / N, the material of plunger is C1730B.

A (Quartered)	B	C*	C40	D	E
G	H (Quartered)	J*	J40	N*	N40

Receptacle End Shapes

NR20K-B	
NR20K-N-B	
NR20K-C	

Contact Probes – Minimum Mounting Pitch 1.0mm

Receptacles – Minimum Mounting Pitch 1.0mm

RoHS 10

NP58

NR58

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

*The tip length of certain tip shape is 2.0.
Ⓢ The receptacle has a stopper that prevents the probe from falling out.

Receptacles

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

NP58 Tip Shapes

A (Quartered)	B	C	D	E	G	H (Quartered)	J	N
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Part Number	Mounting Pitch (min.)	Full Stroke (mm)	Spring Pressure		Allowable Current	Resistance	Replacement Cycle (Reference)
			Initial	2/3 Stroke			
NP26	0.5 mm	2.0	3 gf	16 gf	0.5A	250 mΩ	10,000 times
NP31	0.6 mm	2.0	2 gf	22 gf	1A	180 mΩ	30,000 times
NP31HD			6 gf	23 gf			
NP38	0.8 mm	2.0	15 gf	35 gf	1A	180 mΩ	30,000 times
NP20	0.9 mm	2.0 (3.0)	20 gf	50 gf	1A	100 mΩ	30,000 times
NP58	1.00 mm	2.0	25 gf	50 gf	1A	100 mΩ	50,000 times

Ⓢ Full Stroke in () is applicable to Tip Shape C / J / N.

Receptacles with Lead Wire		Part Number	Lead Wire Color	Lead Wire Length (mm)	Lead Wire	Lead	Receptacle Used
RoHS 10		NRB26	W White R Red BL Blue	400 1000	0.3	0.05 x 7 pcs.	NR26
		NRB31			0.4	0.08 x 7 pcs.	NR31
		NRB38			0.4	0.08 x 7 pcs.	NR38
		NRKB20			0.4	0.08 x 7 pcs.	NR20K-B
		NRB58			0.4	0.08 x 7 pcs.	NR58

Part Number Example

Part Number	-	Tip Shape	-	Lead Wire Color	-	Lead Wire Length
NP26	-	A	-		-	
NP38	-	A	-		-	
NR26	-	B	-	R	-	1000
NRB26	-		-	R	-	1000
NRB38	-		-	R	-	1000