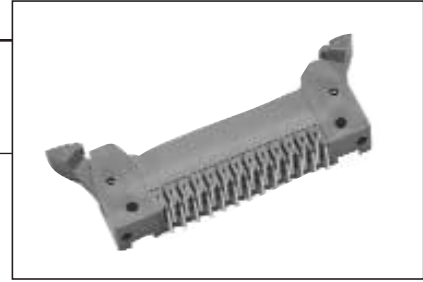


	pages
Latch Header (1.27mm) Right Angle, Solder Dip	54-55
Latch Header (1.27mm) Straight, Solder Dip	56-57
Latch Header (1.27mm) Straight, Solder Dip	58-59
Box Header (1.27mm) Right Angle, Solder Dip	60-61
Box Header (1.27mm) Straight, Solder Dip	62-63
IDC Connectors (1.27mm) Transition Header	64-65
IDC Connectors (1.27mm) IDC Receptacle	66-67
Board to Board Recep. (1.27mm) Through Hole	68-69

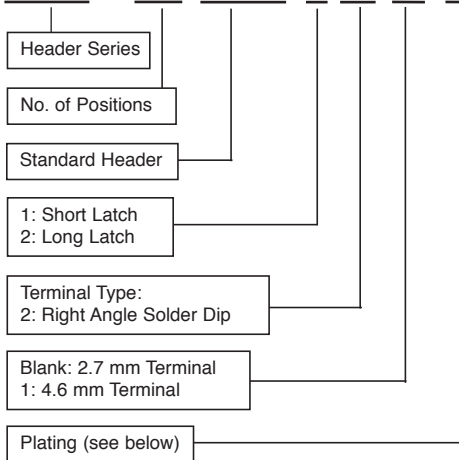
Latch Header (1.27mm, Right Angle, Solder Dip)

NFP SERIES



ORDERING INFORMATION

NFP- *** A-01 * 2- * -**



Characteristics

Current Rating:	0.5A
Insulation Resistance:	1,000M Minimum at 500 VDC
Withstanding Voltage:	500 VAC for 1 minute
Contact Resistance:	15m Max. at 10mA
Operating Temperature:	-20°C ~ +85°C

Material and Finish

Insulator:	High Temp Thermoplastic-UL94V-0
Contact:	Copper Alloy
Plating:	Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni

Features

1. Right-angle terminals
2. Short or long latches
3. Long terminal available
4. Variety of plating options
5. Latches eject receptacle
6. Central polarizing key

TYPES OF PLATING

Plating Type	Under Plate	Mating Face	Terminals
AS	Ni 2.5 ~ 4.5 µm	Au 0.76µm Min.	SnPb 2.0 ~ 4.0µm
BS	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	SnPb 2.0 ~ 4.0µm
AF	Ni 2.5 ~ 4.5 µm	Au 0.76µm Min.	Au 0.05µm Min.
BF	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	Au 0.05µm Min.

CONNECTOR DIMENSIONS (reference only)

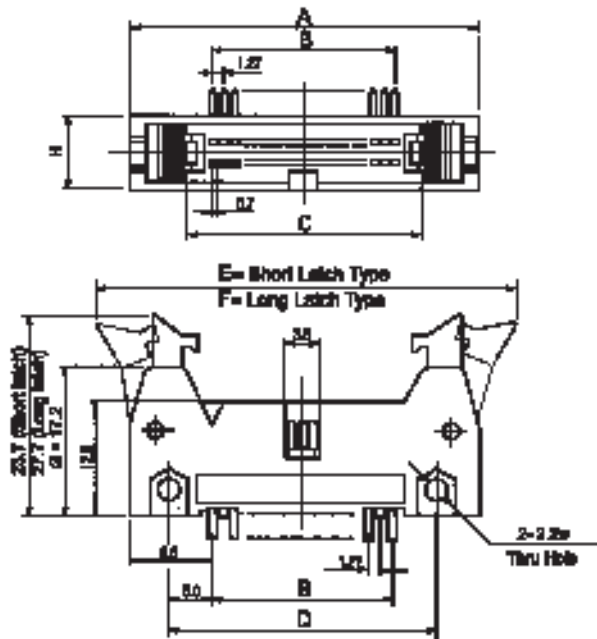
Part Number (□, †)	No. of Positions	Pitch	A	B	C	D	E	F	G	H
NFP-10A-01*2-**	10	1.27mm	24.26	5.08	11.58	15.08	38.20	40.20	17.20	8.30
NFP-16A-01*2-**	16	1.27mm	28.09	8.89	15.39	18.89	42.00	44.00	17.20	8.30
NFP-20A-01*2-**	20	1.27mm	30.63	11.43	17.93	21.43	44.60	46.60	17.20	8.30
NFP-28A-01*2-**	28	1.27mm	34.44	15.24	21.74	25.24	48.40	50.40	17.20	8.30
NFP-34A-01*2-**	34	1.27mm	39.52	20.32	26.82	30.32	53.50	55.50	17.20	8.30
NFP-40A-01*2-*.**	40	1.27mm	43.33	24.13	30.63	34.13	57.30	59.30	17.20	8.30
NFP-50A-01*2-*.**	50	1.27mm	49.68	30.48	36.98	40.48	63.60	65.60	17.20	8.30
NFP-60A-01*2-*.**	60	1.27mm	56.03	36.83	43.33	46.83	70.00	72.00	17.20	8.30
NFP-64A-01*2-*.**	64	1.27mm	58.57	39.37	45.87	49.37	72.50	74.50	17.20	8.30
NFP-80A-01*2-*.**	80	1.27mm	68.73	49.53	56.03	59.53	82.70	84.70	17.20	8.30
NFP-100A-01*2-*.**	100	1.27mm	81.43	62.23	68.73	72.23	95.40	97.40	17.20	8.30

- Short Latch
Positions 50, 60, 64, 80, 100 available in long terminals
- † Long Latch
Positions 40, 64, 80, 100 available in long terminals

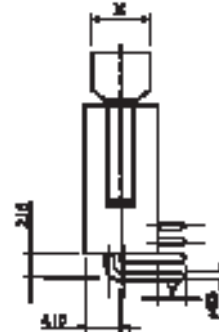
NFP SERIES

APPLICABLE DIMENSIONS *(reference only)*

Connector Outline Dimensions



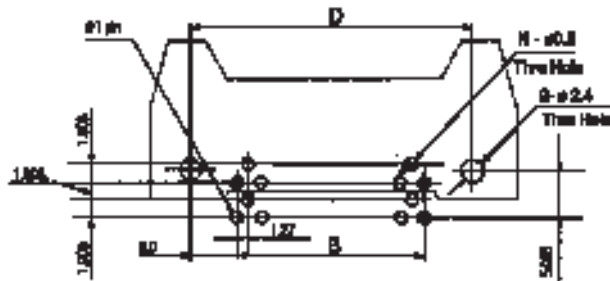
Contact Detail



X= 6.5 (Short latch type)
4.0 (Long latch type)

Y= 2.7 (Short terminal length)
4.6 (Long terminal length)

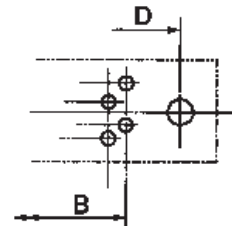
PCB Layout



Section A

Section B

10, 26, 34, 50 Contacts



Note: Left half of this PCB layout is identical to Section A

16, 20, 40, 60, 64, 80, 100 Contacts

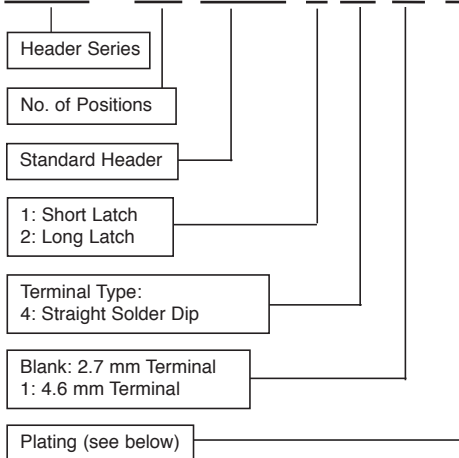
Latch Header (1.27mm, Straight, Solder Dip)

NFP SERIES

ORDERING INFORMATION



NFP- *** A-01 * 4- * -**



Characteristics

Current Rating:	0.5A
Insulation Resistance:	1,000M Minimum at 500 VDC
Withstanding Voltage:	500 VAC for 1 minute
Contact Resistance:	15m Max. at 10mA
Operating Temperature:	-20°C ~ +85°C

Material and Finish

Insulator:	High Temp Thermoplastic-UL94V-0
Contact:	Copper Alloy
Plating:	Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni

Features

1. Straight terminals
2. Short or long latches
3. Long terminal available
4. Variety of plating options
5. Spring pin for secure mount
6. Latches eject receptacle
7. Central polarizing key

TYPES OF PLATING

Plating Type	Under Plate	Mating Face	Terminals
AS	Ni 2.5 ~ 4.5 µm	Au 0.76µm Min.	SnPb 2.0 ~ 4.0µm
BS	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	SnPb 2.0 ~ 4.0µm
AF	Ni 2.5 ~ 4.5 µm	Au 0.76µm Min.	Au 0.05µm Min.
BF	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	Au 0.05µm Min.

CONNECTOR DIMENSIONS (reference only)

Part Number(□,†)	No. of Positions	Pitch	A	B	C	D	E	F	G	H
NFP-10A-01*4-**	10	1.27mm	24.28	5.08	11.58	15.08	38.20	40.20	17.20	8.30
NFP-18A-01*4-**	18	1.27mm	28.08	8.88	15.38	18.88	42.00	44.00	17.20	8.30
NFP-20A-01*4-**	20	1.27mm	30.83	11.43	17.93	21.43	44.80	46.80	17.20	8.30
NFP-28A-01*4-*.**	28	1.27mm	34.44	15.24	21.74	25.24	48.40	50.40	17.20	8.30
NFP-34A-01*4-*.**	34	1.27mm	39.52	20.32	26.82	30.32	53.50	55.50	17.20	8.30
NFP-40A-01*4-*.**	40	1.27mm	43.33	24.13	30.63	34.13	57.30	59.30	17.20	8.30
NFP-50A-01*4-*.**	50	1.27mm	49.68	30.48	36.98	40.48	63.80	65.80	17.20	8.30
NFP-60A-01*4-*.**	60	1.27mm	56.03	36.83	43.33	46.83	70.00	72.00	17.20	8.30
NFP-64A-01*4-**.†	64	1.27mm	58.57	39.37	45.87	49.37	72.50	74.50	17.20	8.30
NFP-80A-01*4-*.**	80	1.27mm	68.73	49.53	56.03	59.53	82.70	84.70	17.20	8.30
NFP-100A-01*4-*.**	100	1.27mm	81.43	62.23	68.73	72.23	95.40	97.40	17.20	8.30

□ Short Latch

Positions 26, 34, 40, 50, 80, 100 available in long terminals

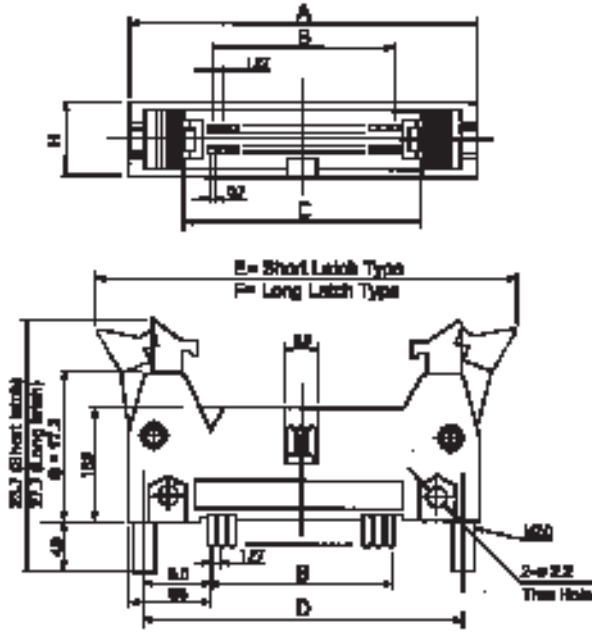
† Long latch

Positions 60, 80, 100 available in long terminals

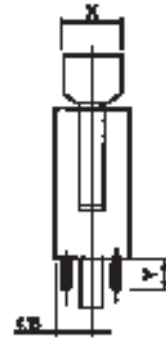
NFP SERIES

APPLICABLE DIMENSIONS *(reference only)*

Connector Outline Dimensions



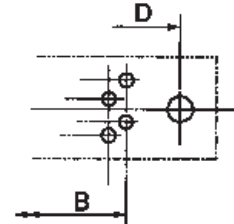
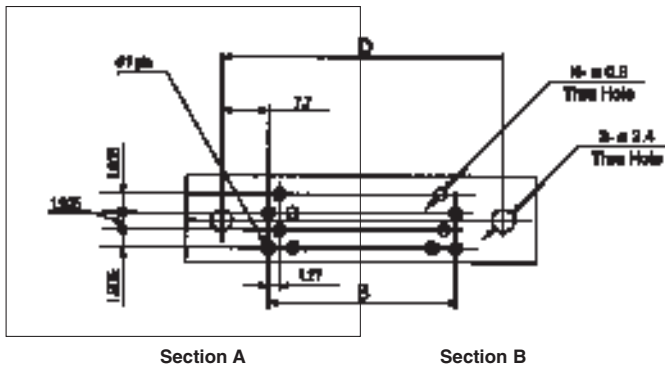
Contact Detail



X= 6.5 (Short latch type)
4.0 (Long latch type)

Y= 2.7 (Short terminal length)
4.6 (Long terminal length)

PCB Layout



Section A

Section B

10, 26, 34, 50 Contacts

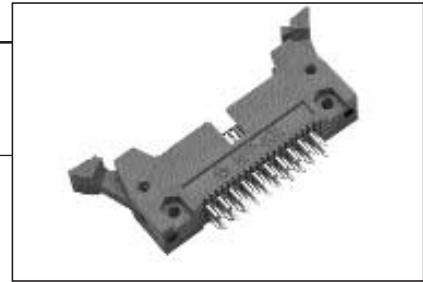
Note: Left half of this PCB layout is identical to Section A

16, 20, 40, 60, 64, 80, 100 Contacts

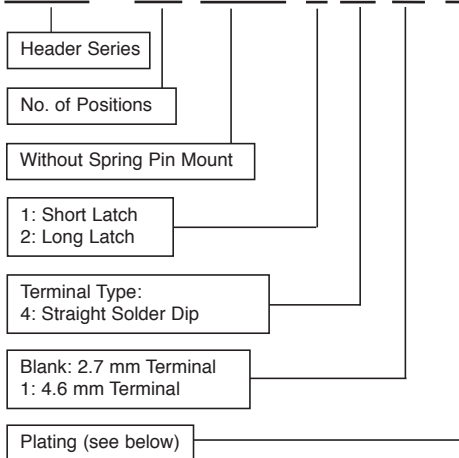
Latch Header (1.27mm, Straight Solder Dip)

NFP SERIES

ORDERING INFORMATION



NFP- *** A-03 * 4- * -**



Characteristics

Current Rating:	0.5A
Insulation Resistance:	1,000M Minimum at 500 VDC
Withstanding Voltage:	500 VAC for 1 minute
Contact Resistance:	15m Max. at 10mA
Operating Temperature:	-20°C ~ +85°C

Material and Finish

Insulator:	High Temp Thermoplastic-UL94V-0
Contact:	Copper Alloy
Plating:	Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni

Features

1. Straight terminals
2. Short or long latches
3. Variety of plating options
4. Long terminal available
5. Latches eject receptacle
6. Central polarizing key

TYPES OF PLATING

Plating Type	Under Plating	Mating Face	Terminals
AS	Ni 2.5 ~ 4.5 µm	Au 0.76µm Min.	SnPb 2.0 ~ 4.0µm
BS	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	SnPb 2.0 ~ 4.0µm
AF	Ni 2.5 ~ 4.5 µm	Au 0.76µm Min.	Au 0.05µm Min.
BF	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	Au 0.05µm Min.

CONNECTOR DIMENSIONS (reference only)

Part Number(□,†)	No. of Positions	Pitch	A	B	C	D	E	F	G
NFP-10A-03*4-**-□	10	1.27mm	24.28	5.08	11.58	20.48	38.20	40.20	8.30
NFP-16A-03*4-**-□	16	1.27mm	28.09	8.89	15.39	24.29	42.00	44.00	8.30
NFP-20A-03*4-**-□	20	1.27mm	30.63	11.43	17.93	26.83	44.60	46.60	8.30
NFP-28A-03*4-**-□	28	1.27mm	34.44	15.24	21.74	30.64	48.40	50.40	8.30
NFP-34A-03*4-**-□	34	1.27mm	39.52	20.32	26.82	35.72	53.50	55.50	8.30
NFP-40A-03*4-**-□	40	1.27mm	43.33	24.13	30.63	39.53	57.30	59.30	8.30
NFP-50A-03*4-**-□	50	1.27mm	49.68	30.48	36.98	45.88	63.60	65.60	8.30
NFP-60A-03*4-**-□	60	1.27mm	56.03	36.83	43.33	52.23	70.00	72.00	8.30
NFP-64A-03*4-**-□	64	1.27mm	58.57	39.37	45.87	54.77	72.50	74.50	8.30
NFP-80A-03*4-**-□	80	1.27mm	68.73	49.53	56.03	64.93	82.70	84.70	8.30
NFP-100A-03*4-**-□	100	1.27mm	81.43	62.23	68.73	77.83	95.40	97.40	8.30

□ Short Latch

Positions 10, 50, 60, 80, 100 available in long terminals

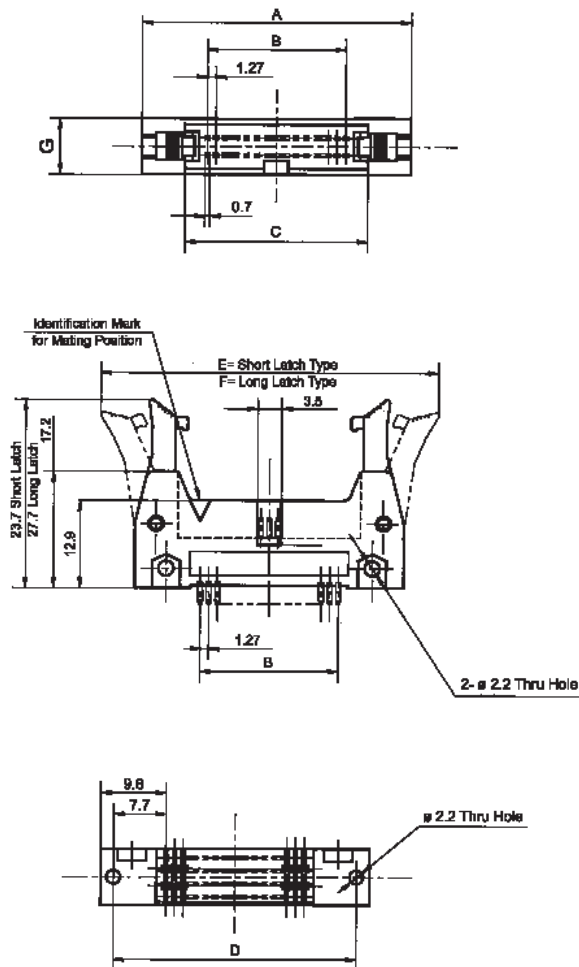
† Long Latch

Positions 60, 80, 100 available in long terminals

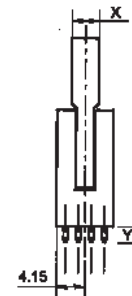
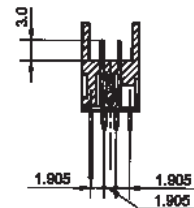
NFP SERIES

APPLICABLE DIMENSIONS (reference only)

Connector Outline Dimensions



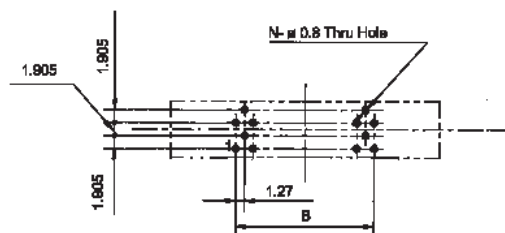
Contact Detail



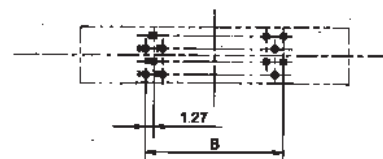
X= 6.5 (Short latch type)
4.0 (Long latch type)

Y= 2.7 (Short terminal length)
4.6 (Long terminal length)

PCB Layout



10, 26, 34, 50 Contacts



16, 20, 40, 60, 64, 80, 100 Contacts

Box Header (1.27mm, Right Angle, Solder Dip)

NFP SERIES

ORDERING INFORMATION

NFP- ** A-013 2- **

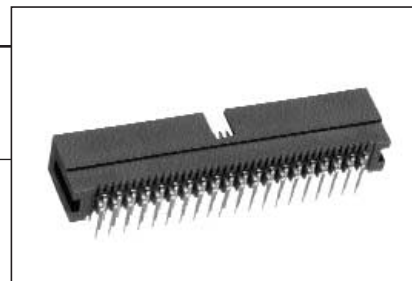
Header Series

No. of Positions

Box Header

Terminal Type:
2: Right Angle Solder Dip

Plating (see below)



Characteristics

Current Rating:	0.5A
Insulation Resistance:	1,000M Minimum at 500 VDC
Withstanding Voltage:	500 VAC for 1 minute
Contact Resistance:	15m Max. at 10mA
Operating Temperature:	-20°C ~ +85°C

Material and Finish

Insulator:	High Temp Thermoplastic-UL94V-0
Contact:	Copper Alloy
Plating:	Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni

Features

1. Right-angle terminals
2. Variety of plating options
3. Central polarizing key

TYPES OF PLATING

Plating Type	Under Plate	Mating Face	Terminals
AS	Ni 2.5 ~ 4.5 μ m	Au 0.76 μ m Min.	SnPb 2.0 ~ 4.0 μ m
BS	Ni 2.5 ~ 4.5 μ m	Au 0.30 μ m Min.	SnPb 2.0 ~ 4.0 μ m
AF	Ni 2.5 ~ 4.5 μ m	Au 0.76 μ m Min.	Au 0.05 μ m Min.
BF	Ni 2.5 ~ 4.5 μ m	Au 0.30 μ m Min.	Au 0.05 μ m Min.

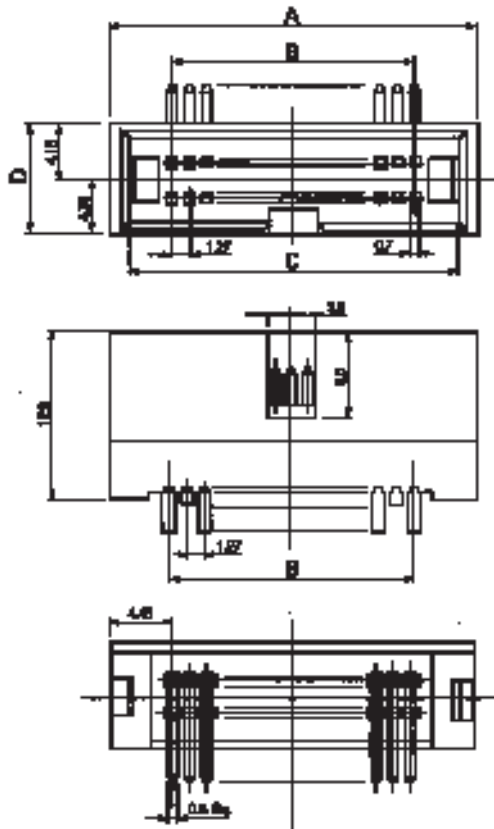
CONNECTOR DIMENSIONS (reference only)

Part Number	No. of Positions	Pitch	A	B	C	D
NFP-16A-0132-**-	16	1.27mm	17.85	8.89	15.39	8.50
NFP-20A-0132-**-	20	1.27mm	20.39	11.43	17.93	8.50
NFP-26A-0132-**-	26	1.27mm	24.20	15.24	21.74	8.50
NFP-34A-0132-**-	34	1.27mm	29.28	20.32	26.82	8.50
NFP-40A-0132-**-	40	1.27mm	33.09	24.13	30.83	8.50
NFP-50A-0132-**-	50	1.27mm	39.44	30.48	36.88	8.50
NFP-60A-0132-**-	60	1.27mm	45.79	36.83	43.33	8.50
NFP-80A-0132-**-	80	1.27mm	58.49	49.53	56.03	8.50

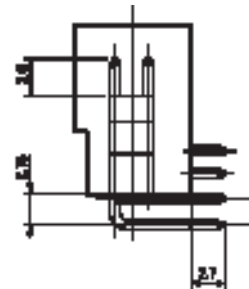
NFP SERIES

APPLICABLE DIMENSIONS *(reference only)*

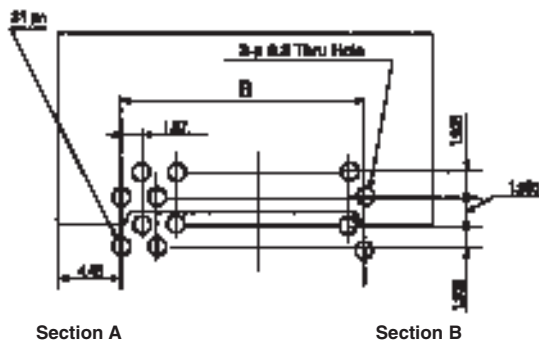
Connector Outline Dimensions



Contact Detail



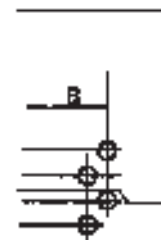
PCB Layout



Section A

Section B

26, 34, 50 Contacts



16, 20, 40, 60, 80 Contacts

Note: Left half of this PCB layout is identical to Section A

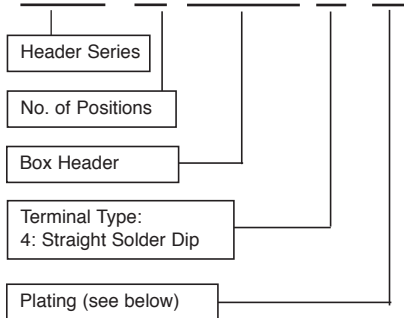
Box Header (1.27 mm, Straight Solder Dip)

NFP SERIES

ORDERING INFORMATION



NFP- ** A-013 4- **



Characteristics

Current Rating:	0.5A
Insulation Resistance:	1,000M Minimum at 500 VDC
Withstanding Voltage:	500 VAC for 1 minute
Contact Resistance:	15m Max. at 10mA
Operating Temperature:	-20°C ~ +85°C

Material and Finish

Insulator:	High Temp Thermoplastic-UL94V-0
Contact:	Copper Alloy
Plating:	Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni

Features

1. Straight terminals
2. Variety of plating options
3. Central polarizing key

TYPES OF PLATING

Plating Type	Under Plate	Mating Face	Terminals
AS	Ni 2.5 ~ 4.5 µm	Au 0.76µm Min.	SnPb 2.0 ~ 4.0µm
BS	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	SnPb 2.0 ~ 4.0µm

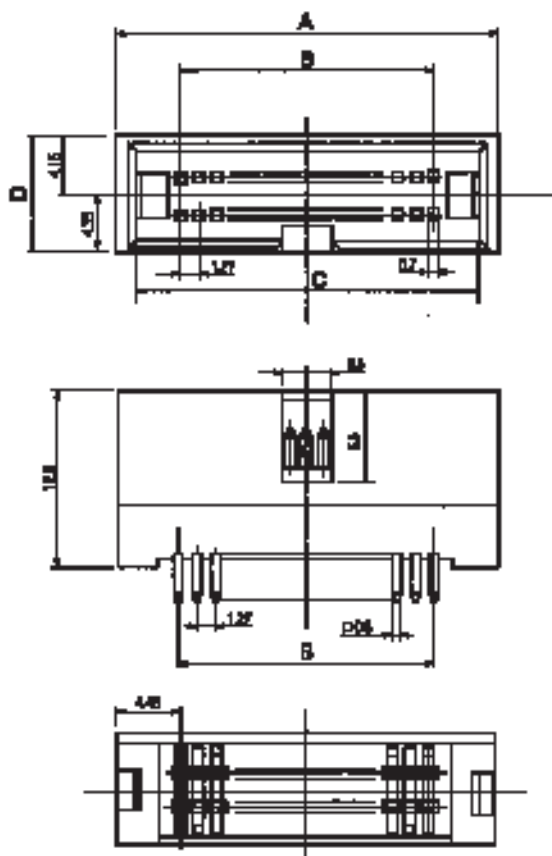
CONNECTOR DIMENSIONS (reference only)

Part Number	No. of Positions	Pitch	A	B	C	D
NFP-16A-0134-**-	16	1.27mm	17.85	8.89	15.39	8.50
NFP-20A-0134-**-	20	1.27mm	20.39	11.43	17.93	8.50
NFP-28A-0134-**-	28	1.27mm	24.20	15.24	21.74	8.50
NFP-34A-0134-**-	34	1.27mm	28.28	20.32	26.82	8.50
NFP-40A-0134-**-	40	1.27mm	33.09	24.13	30.63	8.50
NFP-50A-0134-**-	50	1.27mm	39.44	30.48	36.98	8.50
NFP-60A-0134-**-	60	1.27mm	45.79	36.83	43.33	8.50
NFP-80A-0134-**-	80	1.27mm	58.49	49.53	56.03	8.50

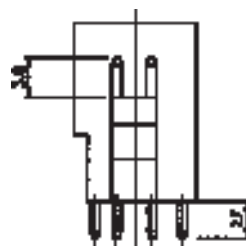
NFP SERIES

APPLICABLE DIMENSIONS *(reference only)*

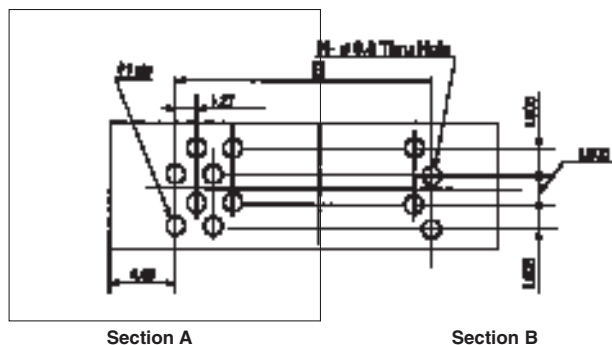
Connector Outline Dimensions



Contact Detail



PCB Layout



26, 34, 50 Contacts

16, 20, 40, 60, 80 Contacts

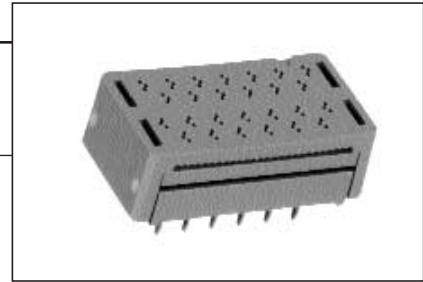
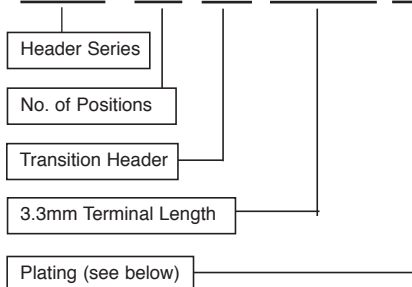
Note: Left half of this PCB layout is identical to Section A

IDC Transition Header (1.27 mm)

NFP SERIES

ORDERING INFORMATION

NFP- *** G- 0100- **



Characteristics

Current Rating:	1A
Insulation Resistance:	1,000M Minimum at 500 VDC
Withstanding Voltage:	500 VAC for 1 minute
Contact Resistance:	15m Max. at 10mA
Operating Temperature:	-20°C ~ +85°C

Material and Finish

Insulator:	High Temp Thermoplastic-UL94V-0
Contact:	Copper Alloy
Plating:	Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni

Features

1. Unique three-fork IDC contact allows termination of 0.635mm pitch flat cable
2. Various plating options

APPLICABLE CABLES

- Solid Wire AWG 30
- Stranded Wire AWG 30
- Cable Spacing (0.635mm)

TYPES OF PLATING

Plating Type	Under Plate	Mating Face	Terminals
BS	Ni 2.5 ~ 4.5 μ m	Au 0.30 μ m Min.	SnPb 2.0 ~ 4.0 μ m
AF	Ni 2.5 ~ 4.5 μ m	Au 0.78 μ m Min.	Au 0.05 μ m Min.
BF	Ni 2.5 ~ 4.5 μ m	Au 0.30 μ m Min.	Au 0.05 μ m Min.

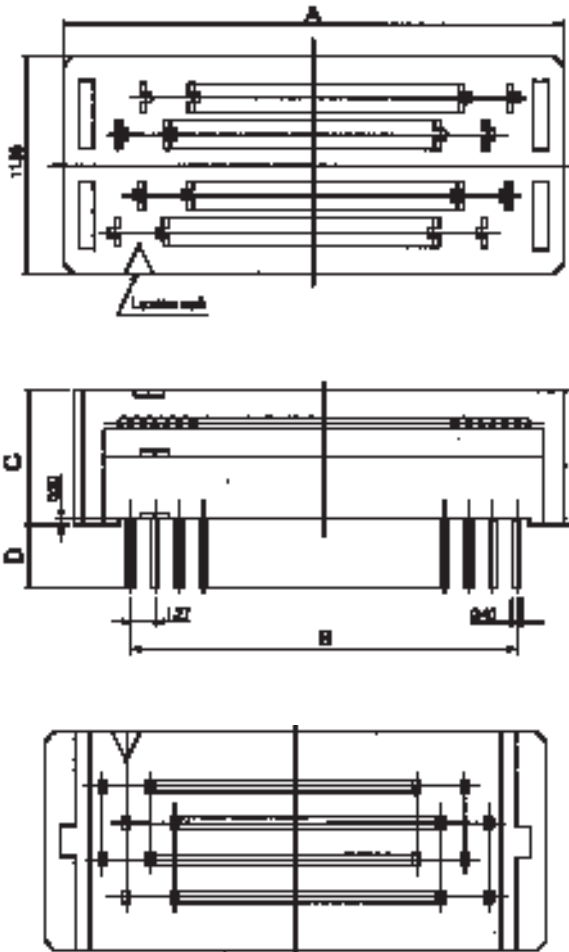
CONNECTOR DIMENSIONS (reference only)

Part Number	No. of Positions	Pitch	A	B	C	D
NFP-10G-0100-**	10	1.27mm	11.08	5.08	6.95	3.30
NFP-16G-0100-**	16	1.27mm	14.89	8.89	6.95	3.30
NFP-20G-0100-**	20	1.27mm	17.43	11.43	6.95	3.30
NFP-28G-0100-**	28	1.27mm	21.24	15.24	6.95	3.30
NFP-34G-0100-**	34	1.27mm	26.32	20.32	6.95	3.30
NFP-40G-0100-**	40	1.27mm	30.13	24.12	6.95	3.30
NFP-50G-0100-**	50	1.27mm	36.48	30.48	6.95	3.30
NFP-60G-0100-**	60	1.27mm	42.83	36.83	6.95	3.30
NFP-64G-0100-**	64	1.27mm	45.37	39.37	6.95	3.30
NFP-68G-0100-**	68	1.27mm	47.90	41.91	6.95	3.30
NFP-80G-0100-**	80	1.27mm	55.53	49.53	6.95	3.30
NFP-100G-0100-**	100	1.27mm	68.23	62.23	6.95	3.30

NFP SERIES

APPLICABLE DIMENSIONS (reference only)

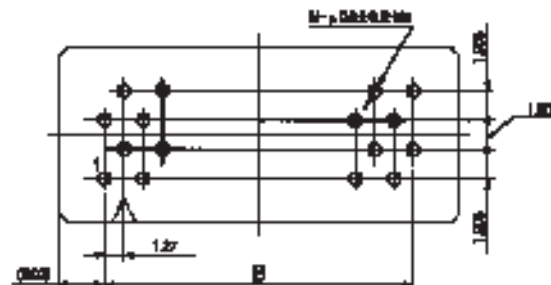
Connector Outline Dimensions



Contact Detail



PCB Layout



IDC Receptacle (1.27 mm)

NFS SERIES

ORDERING INFORMATION

NFS- *** A-011 * - **

Socket Series

No. of Positions

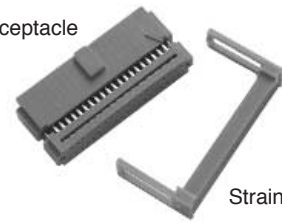
Standard Socket

1: With polarity Key

0: Without Strain Relief
1: With Strain Relief

Plating (see below)

Receptacle



Strain Relief

Characteristics

Current Rating:	1A
Insulation Resistance:	1,000M Minimum at 500 VDC
Withstanding Voltage:	500 VAC for 1 minute
Contact Resistance:	15m Max. at 10mA
Operating Temperature:	-20°C ~ +85°C

Material and Finish

Insulator:	High Temp Thermoplastic-UL94V-0
Contact:	Copper Alloy
Plating:	Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni
Accessories	Strain Reliefs (see page 86)

Features

1. IDC contact allows termination of 0.635mm pitch flat cable
2. Strain relief available to prevent kinking and caving
3. Plating options available
4. Central polarizing key

APPLICABLE CABLES

- Solid Wire AWG 30
- Stranded Wire AWG 30
- Cable Spacing (0.635mm)

TYPES OF PLATING

Plating Type	Under Plate	Mating Face	Terminals
AF	Ni 2.5 ~ 4.5 µm	Au 0.78µm Min.	Au 0.05µm Min.
BF	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	Au 0.05µm Min.

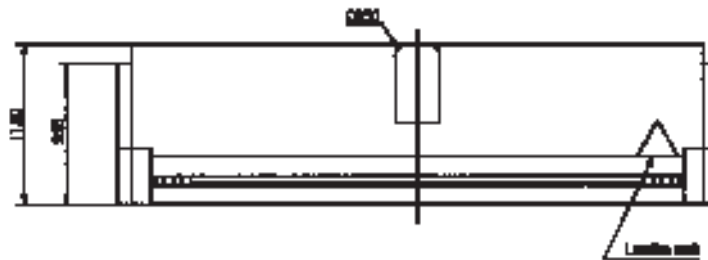
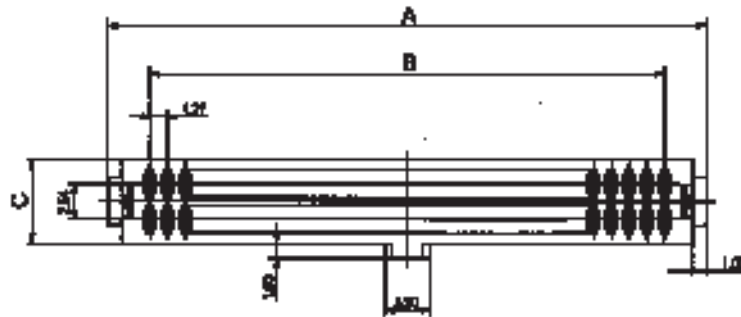
CONNECTOR DIMENSIONS (reference only)

Part Number	No. of Positions	Pitch	A	B	C
NFS-10A-01**.**	10	1.27mm	11.08	5.08	6.00
NFS-16A-01**.**	16	1.27mm	14.89	8.89	6.00
NFS-20A-01**.**	20	1.27mm	17.43	11.43	6.00
NFS-26A-01**.**	26	1.27mm	21.24	15.24	6.00
NFS-34A-01**.**	34	1.27mm	26.32	20.32	6.00
NFS-40A-01**.**	40	1.27mm	30.13	24.12	6.00
NFS-50A-01**.**	50	1.27mm	36.48	30.48	6.00
NFS-60A-01**.**	60	1.27mm	42.83	36.83	6.00
NFS-64A-01**.**	64	1.27mm	45.37	39.37	6.00
NFS-80A-01**.**	80	1.27mm	55.53	49.53	6.00
NFS-100A-01**.**	100	1.27mm	66.23	62.23	6.00

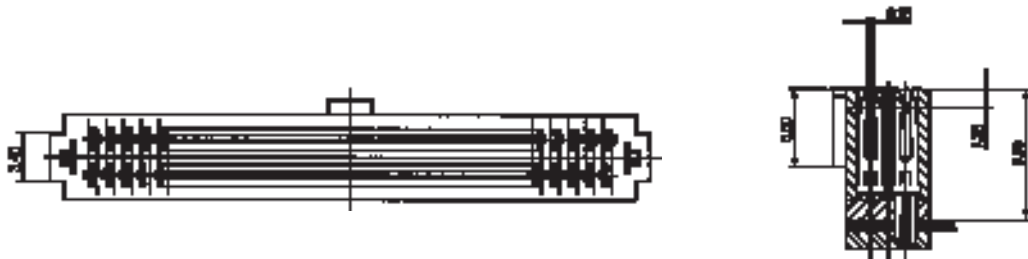
NFS SERIES

APPLICABLE DIMENSIONS (reference only)

Connector Outline Dimensions



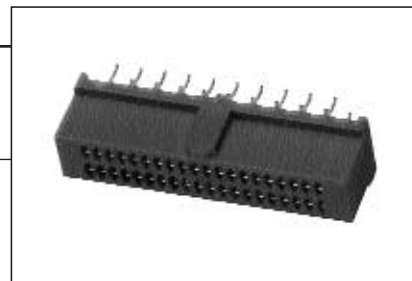
Contact Detail



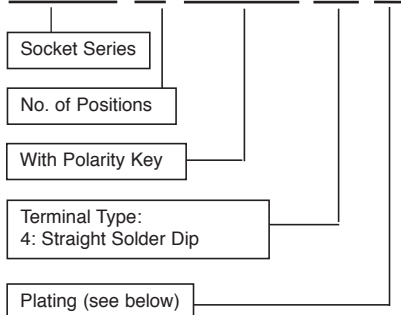
Board to Board Receptacle (1.27 mm)

NFS SERIES

ORDERING INFORMATION



NFS- ** A-131 4- **



Characteristics

Current Rating:	1A
Insulation Resistance:	1,000M Minimum at 500 VDC
Withstanding Voltage:	500 VAC for 1 minute
Contact Resistance:	15m Max. at 10mA
Operating Temperature:	-20°C ~ +85°C

Material and Finish

Insulator:	High Temp Thermoplastic-UL94V-0
Contact:	Copper Alloy
Plating:	Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni

Features

1. Straight terminals
2. Terminal length (2.7mm)

TYPES OF PLATING

Plating Type	Under Plate	Mating Face	Terminals
BS	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	SnPb 2.0 ~ 4.0µm

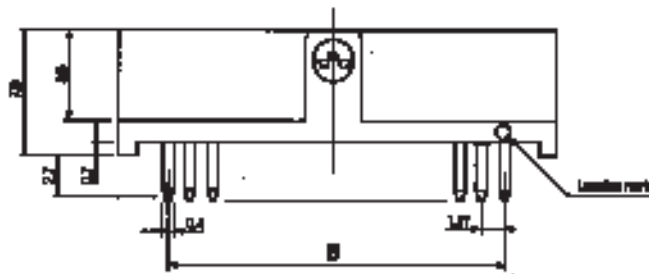
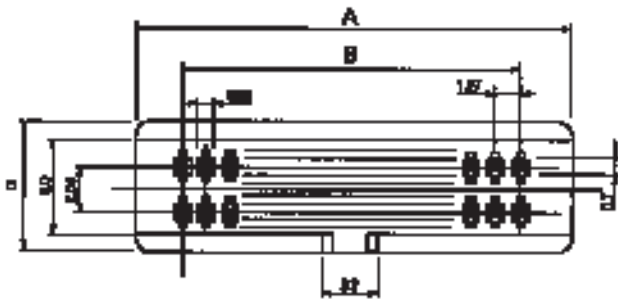
CONNECTOR DIMENSIONS (reference only)

Part Number	No. of Positions	Pitch	A	B	C
NFS-40A-1314**	40	1.27mm	30.13	24.12	8.00
NFS-50A-1314**	50	1.27mm	38.48	30.48	8.00
NFS-60A-1314**	60	1.27mm	42.83	36.83	8.00
NFS-64A-1314**	64	1.27mm	45.37	39.37	8.00
NFS-80A-1314**	80	1.27mm	55.53	49.53	8.00

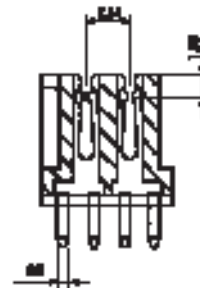
NFS SERIES

APPLICABLE DIMENSIONS *(reference only)*

Connector Outline Dimensions



Contact Detail



PCB Layout

