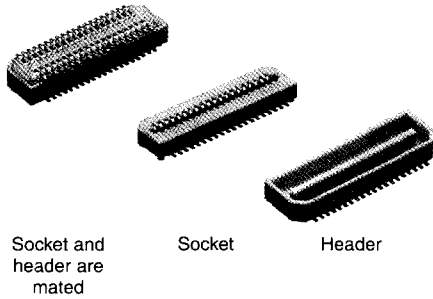


# NAIS

## NARROW-PITCH CONNECTORS FOR PC BOARDS

## NARROW-PITCH (0.8mm) CONNECTORS P8 SERIES



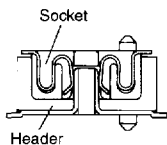
Stacking height	Pitch										
	3mm	3.5mm	4mm	4.5mm	5mm	5.5mm	6mm	7mm	8mm	11.5mm	13mm
16	*	*	*	*	—	—	—	—	—	—	—
20	*	—	*	—	*	—	*	*	*	—	*
22	—	—	—	—	—	—	—	*	*	—	—
24	*	*	—	—	*	*	*	—	*	—	—
26	*	*	*	*	*	*	*	*	*	—	—
30	*	*	*	*	*	*	*	*	*	*	*
34	—	—	—	—	—	—	—	—	*	—	—
40	*	—	*	—	*	—	*	*	*	*	*
50	*	—	*	—	*	—	*	*	*	*	*
60	*	*	*	*	*	*	*	*	*	—	*
80	*	—	*	—	*	—	*	*	*	*	*
90	*	—	—	—	—	—	—	—	—	—	—
100	*	—	*	—	*	—	*	*	*	*	—

\* Available

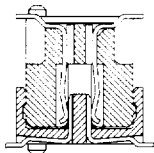
### FEATURES

**1. A wide variety available, including 0.8mm pitch and ultra-low 3mm profile.**

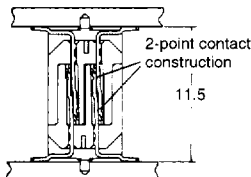
**2. Unique bellows-type\*<sup>1</sup> contacts**  
Our unique bellows-type contacts resist mating stress and offer high contact reliability.



3mm, 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm type



6mm, 7mm, 8mm, 13mm type



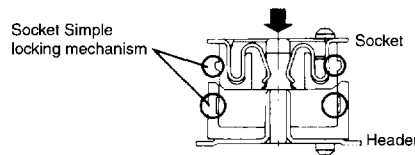
11.5mm type

**3. Long Lifetime**

The 0.2µm Au plating layer and our unique pinhole filling technology\*<sup>2</sup> ensure long lifetime.

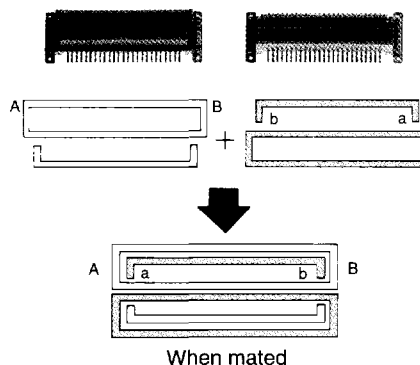
- 3mm, 4mm, 5mm, 6mm, 7mm, 8mm type: 50 times
- 11.5mm type: 100 times

**4. Simple locking mechanism assure high resistance to vibration and impact**



3mm, 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 13mm type

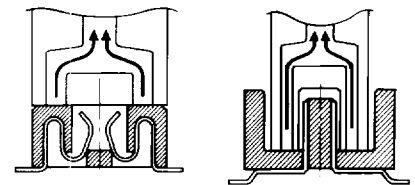
**5. Original sockets and headers with the same shape (11.5mm type)**



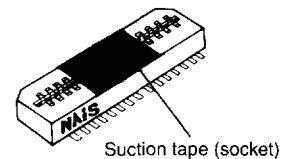
**6. Compatibility with Automatic Placement**

The surface-mount design makes connectors compatible with the automatic placement process.

- 1) Compatible with suction-type placement machine:
- Using the following type of suction nozzle makes the connectors compatible with automatic placement without the need for suction tape.



- A unique suction tape configuration makes the connectors compatible with suction-type automatic placement machines.



# AXN(1/3/4)

## 2) Positioning tab



Tab for positioning on the PC board.  
Suitable for both manual and automatic insertion.

## 3) Reverse mating prevention key:

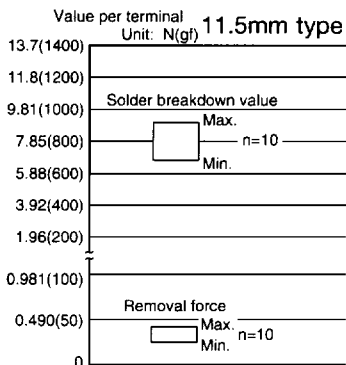
Reverse mating is prevented by positioning bosses which are asymmetrical in both position and diameter.

4) Compatibility with embossed tape package.

## 5) Comparison of solder breakdown value and removal force

Solder breakdown value:

Measures the value at which the soldered portion breaks down when pulled in the connector removal direction



Notes:

- \*1. Bellows contacts: The bellows contacts comprise thin formed sheet metal. They offer reliable contact since a rounded corner, instead of a sharp edge, is used for contact.



Rounded corner makes contact.

- \*2. Pinhole filling process covers the Au plating layer surface with a very thin film (100Å) to fill pin holes.

## APPLICATIONS

Small portable equipment, personal computers, word processors, video equipment, radio communication equipment, cellular telephone, PHS, etc.

## SPECIFICATIONS

### 1. Characteristics

Item	Specifications		Conditions																
	3mm, 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 13mm type	11.5mm type																	
Electrical characteristics	Rated current	0.5A																	
	Rated voltage	AC, DC 60V																	
	Breakdown voltage	250V AC for 1 minute																	
	Insulation resistance	Min. 1,000MΩ																	
	Contact resistance	Max. 60mΩ	Max. 50mΩ	Measurec with YHP4328A															
Mechanical characteristics	Composite insertion force	Max. 43.1N {4.40kgf} (30 contacts)	Max. 0.785N {80gf} × no. of contacts (initial)																
	Composite removal force	Min. 6.37N {0.65kgf} (30 contacts)	Min. 0.127N {13gf} × no. of contacts																
Environmental characteristics	Ambient temperature	-55°C to +85°C																	
	Soldering heat resistance	Max. peak temperature of 245°C 300°C within 5 seconds																	
	Thermal shock resistance (header and socket mated)	5 cycles, insulation resistance min. 100MΩ, contact resistance max. 60mΩ	5 cycles, insulation resistance min. 100MΩ, contact resistance max. 50mΩ	Infrared reflow soldering Soldering iron															
	Humidity resistance (header and socket mated)	120 hours, insulation resistance min. 100MΩ, contact resistance max. 60mΩ	240 hours, insulation resistance min. 100MΩ, contact resistance max. 50mΩ	<table border="1"> <thead> <tr> <th>Sequence</th> <th>Temperature (°C)</th> <th>Time (minutes)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-55<sup>-0</sup>/<sub>-3</sub></td> <td>30</td> </tr> <tr> <td>2</td> <td>25<sup>+10</sup>/<sub>-5</sub></td> <td>Max. 5</td> </tr> <tr> <td>3</td> <td>85<sup>+3</sup>/<sub>-0</sub></td> <td>30</td> </tr> <tr> <td>4</td> <td>25<sup>+10</sup>/<sub>-5</sub></td> <td>Max. 5</td> </tr> </tbody> </table>	Sequence	Temperature (°C)	Time (minutes)	1	-55 <sup>-0</sup> / <sub>-3</sub>	30	2	25 <sup>+10</sup> / <sub>-5</sub>	Max. 5	3	85 <sup>+3</sup> / <sub>-0</sub>	30	4	25 <sup>+10</sup> / <sub>-5</sub>	Max. 5
	Sequence	Temperature (°C)	Time (minutes)																
	1	-55 <sup>-0</sup> / <sub>-3</sub>	30																
	2	25 <sup>+10</sup> / <sub>-5</sub>	Max. 5																
	3	85 <sup>+3</sup> / <sub>-0</sub>	30																
4	25 <sup>+10</sup> / <sub>-5</sub>	Max. 5																	
Saltwater spray resistance (header and socket mated)	24 hours, insulation resistance min. 100MΩ, contact resistance max. 60mΩ	48 hours, insulation resistance min. 100MΩ, contact resistance max. 50mΩ	Bath temperature 40±2°C, humidity 90 to 95% R.H.																
H <sub>2</sub> S resistance (header and socket mated)	48 hours, contact resistance max. 60mΩ	96 hours, contact resistance max. 50mΩ	Bath temperature 40±2°C, gas concentration 3±1 ppm, humidity 75 to 80% R.H.																
SO <sub>2</sub> resistance (header and socket mated)	48 hours, contact resistance max. 60mΩ	96 hours, contact resistance max. 50mΩ	Bath temperature 40±2°C, gas concentration 10±3 ppm, humidity 90 to 95% R.H.																
Lifetime characteristics	Insertion and removal life	50 times	100 times	Repeated insertion and removal speed of max. 200 times/hours															
Unit weight	Stacking height 3mm 30 terminals; Socket: 0.26g Header: 0.26g 50 terminals; Socket: 0.40g Header: 0.44g																		

### 2. Material and surface treatment

Part name	3mm, 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 13mm type		11.5mm type	
	Material	Surface treatment	Material	Surface treatment
Molded portion	Heat-resistant resin (UL94V-0)	—	Liquid crystal polymer resin (UL94V-0)	—
Bracket	—	—	Copper alloy	SnPb plating over Ni
Contact	Copper alloy	3mm, 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm type Contact portion: Au plating over Ni Terminal portion: Socket – Au plating over Ni Header – SnPb plating over Ni 6mm, 7mm, 8mm, 13mm type Contact portion: Au plating over Ni Terminal portion: Socket/Header – SnPb plating over Ni	Copper alloy	Contact portion: Au plating over Ni Terminal portion: SnPb plating over Ni

**PRODUCT TYPES**

Stacking height	No. of contacts	Stick package				Embossed tape package				
		Part No.		Packing quantity		Part No.		Packing quantity		
		Socket	Header	Stick	Outer carton	Socket	Header	Reel	Outer carton	
3.0 mm	16	AXN316038S	AXN416330S	50 pcs.	300 pcs.	AXN316038*	AXN416330*			
	20	AXN320038S	AXN420330S	50 pcs.	300 pcs.	AXN320038*	AXN420330*			
	24	AXN324038S	AXN424330S	30 pcs.	300 pcs.	AXN324038*	AXN424330*			
	26	AXN326038S	AXN426330S	30 pcs.	300 pcs.	AXN326038*	AXN426330*			
	30	AXN330038S	AXN430330S	30 pcs.	300 pcs.	AXN330038*	AXN430330*			
	40	AXN340038S	AXN440330S	25 pcs.	300 pcs.	AXN340038*	AXN440330*			
	50	AXN350038S	AXN450330S	20 pcs.	300 pcs.	AXN350038*	AXN450330*			
	60	AXN360038S	AXN460330S	15 pcs.	300 pcs.	AXN360038*	AXN460330*			
	80	AXN380038S	AXN480330S	12 pcs.	300 pcs.	AXN380038*	AXN480330*			
	90	AXN390038S	AXN490330S	12 pcs.	300 pcs.	AXN390038*	AXN490330*			
	100	AXN300038S	AXN400330S	12 pcs.	300 pcs.	—	—			
3.5 mm	16	AXN316238S	AXN416330S	50 pcs.	300 pcs.	AXN316238*	AXN416330*			
	24	AXN324238S	AXN424330S	30 pcs.	300 pcs.	AXN324238*	AXN424330*			
	26	AXN326238S	AXN426330S	30 pcs.	300 pcs.	AXN326238*	AXN426330*			
	30	AXN330238S	AXN430330S	30 pcs.	300 pcs.	AXN330238*	AXN430330*			
	60	AXN360238S	AXN460330S	15 pcs.	300 pcs.	AXN360238*	AXN460330*			
4.0 mm	16	AXN316038S	AXN416430S	50 pcs.	300 pcs.	AXN316038*	AXN416430P			
	20	AXN320038S	AXN420430S	50 pcs.	300 pcs.	AXN320038*	AXN420430P			
	26	AXN326038S	AXN426430S	30 pcs.	300 pcs.	AXN326038*	AXN426430P			
	30	AXN330038S	AXN430430S	30 pcs.	300 pcs.	AXN330038*	AXN430430P			
	40	AXN340038S	AXN440430S	25 pcs.	300 pcs.	AXN340038*	AXN440430P			
	50	AXN350038S	AXN450430S	20 pcs.	300 pcs.	AXN350038*	AXN450430P			
	60	AXN360038S	AXN460430S	12 pcs.	300 pcs.	AXN360038*	AXN460430P			
	80	AXN380038S	AXN480430S	12 pcs.	300 pcs.	AXN380038*	AXN480430P			
	100	AXN300038S	AXN400430S	12 pcs.	300 pcs.	—	—			
4.5 mm	16	AXN316238S	AXN416430S	50 pcs.	300 pcs.	AXN316238*	AXN416430P			
	26	AXN326238S	AXN426430S	50 pcs.	300 pcs.	AXN326238*	AXN426430P			
	30	AXN330238S	AXN430430S	30 pcs.	300 pcs.	AXN330238*	AXN430430P			
	60	AXN360238S	AXN460430S	15 pcs.	300 pcs.	AXN360238*	AXN460430P			
5.0 mm	20	AXN320038S	AXN420530S	50 pcs.	300 pcs.	AXN320038*	AXN420530P			
	24	AXN324038S	AXN424530S	30 pcs.	300 pcs.	AXN324038*	AXN424530P			
	26	AXN326038S	AXN426530S	30 pcs.	300 pcs.	AXN326038*	AXN426530P			
	30	AXN330038S	AXN430530S	30 pcs.	300 pcs.	AXN330038*	AXN430530P			
	40	AXN340038S	AXN440530S	25 pcs.	300 pcs.	AXN340038*	AXN440530P			
	50	AXN350038S	AXN450530S	20 pcs.	300 pcs.	AXN350038*	AXN450530P			
	60	AXN360038S	AXN460530S	15 pcs.	300 pcs.	AXN360038*	AXN460530P			
	80	AXN380038S	AXN480530S	12 pcs.	300 pcs.	AXN380038*	AXN480530P			
	100	AXN300038S	AXN400530S	12 pcs.	300 pcs.	—	—			
5.5 mm	24	AXN324238S	AXN424530S	30 pcs.	300 pcs.	AXN324238*	AXN424530P			
	26	AXN326238S	AXN426530S	30 pcs.	300 pcs.	AXN326238*	AXN426530P			
	30	AXN330238S	AXN430530S	30 pcs.	300 pcs.	AXN330238*	AXN430530P			
	60	AXN360238S	AXN460530S	15 pcs.	300 pcs.	AXN360238*	AXN460530P			
6.0 mm	20	AXN320130S	AXN420330S	50 pcs.	300 pcs.	AXN320130P	AXN420330*			
	24	AXN324130S	AXN424330S	30 pcs.	300 pcs.	AXN324130P	AXN424330*			
	26	AXN326130S	AXN426330S	30 pcs.	300 pcs.	AXN326130P	AXN426330*			
	30	AXN330130S	AXN430330S	30 pcs.	300 pcs.	AXN330130P	AXN430330*			
	40	AXN340130S	AXN440330S	25 pcs.	300 pcs.	AXN340130P	AXN440330*			
	50	AXN350130S	AXN450330S	20 pcs.	300 pcs.	AXN350130P	AXN450330*			
	60	AXN360130S	AXN460330S	15 pcs.	300 pcs.	AXN360130P	AXN460330*			
	80	AXN380130S	AXN480330S	12 pcs.	300 pcs.	AXN380130P	AXN480330*			
		100	AXN300130S	AXN400330S	12 pcs.	300 pcs.	—	—		
	7.0 mm	20	AXN320130S	AXN420430S	50 pcs.	300 pcs.	AXN320130P	AXN420430P		
22		AXN322130S	AXN422430S	30 pcs.	300 pcs.	AXN322130P	AXN422430P			
26		AXN326130S	AXN426430S	30 pcs.	300 pcs.	AXN326130P	AXN426430P			
30		AXN330130S	AXN430430S	30 pcs.	300 pcs.	AXN330130P	AXN430430P			
40		AXN340130S	AXN440430S	25 pcs.	300 pcs.	AXN340130P	AXN440430P			
50		AXN350130S	AXN450430S	20 pcs.	300 pcs.	AXN350130P	AXN450430P			
60		AXN360130S	AXN460430S	15 pcs.	300 pcs.	AXN360130P	AXN460430P			
80		AXN380130S	AXN480430S	12 pcs.	300 pcs.	AXN380130P	AXN480430P			
	100	AXN300130S	AXN400430S	12 pcs.	300 pcs.	—	—			

Note)  
J: 1,500 pcs.  
P: 1,000 pcs.

Note)  
J: 3,000 pcs.  
P: 2,000 pcs.

# AXN(1/3/4)

Stacking height	No. of contacts	Stick package				Embossed tape package			
		Part No.		Packing quantity		Part No.		Packing quantity	
		Socket	Header	Stick	Outer carton	Socket	Header	Reel	Outer carton
8.0 mm	20	AXN320130S	AXN420530S	50 pcs.	300 pcs.	AXN320130P	AXN420530P	1,000 pcs.	2,000 pcs.
	22	AXN322130S	AXN422530S	30 pcs.	300 pcs.	AXN322130P	AXN422530P		
	24	AXN324130S	AXN424530S	30 pcs.	300 pcs.	AXN324130P	AXN424530P		
	26	AXN326130S	AXN426530S	30 pcs.	300 pcs.	AXN326130P	AXN426530P		
	30	AXN330130S	AXN430530S	30 pcs.	300 pcs.	AXN330130P	AXN430530P		
	34	AXN334130S	AXN434530S	30 pcs.	300 pcs.	AXN334130P	AXN434530P		
	40	AXN340130S	AXN440530S	25 pcs.	300 pcs.	AXN340130P	AXN440530P		
	50	AXN350130S	AXN450530S	20 pcs.	300 pcs.	AXN350130P	AXN450530P		
	60	AXN360130S	AXN460530S	15 pcs.	300 pcs.	AXN360130P	AXN460530P		
	80	AXN380130S	AXN480530S	12 pcs.	300 pcs.	AXN380130P	AXN480530P		
11.5 mm	30	AXN1300115S (Socket, Header)		30 pcs.	300 pcs.	AXN1300115P (Socket, Header)		350 pcs.	700 pcs.
	40	AXN1400115S (Socket, Header)		25 pcs.	300 pcs.	AXN1400115P (Socket, Header)		350 pcs.	700 pcs.
	50	AXN1500115S (Socket, Header)		20 pcs.	300 pcs.	AXN1500115P (Socket, Header)		350 pcs.	700 pcs.
	80	AXN1800115S (Socket, Header)		12 pcs.	300 pcs.	AXN1800115P (Socket, Header)		250 pcs.	500 pcs.
	100	AXN1000115S (Socket, Header)		12 pcs.	300 pcs.	—		—	—
13.0 mm	20	AXN320130S	AXN420030S	50 pcs.	300 pcs.	AXN320130P	AXN420040P Note 5)	Socket: 1,000 pcs. Header: 500 pcs.	Socket: 2,000 pcs. Header: 1,000 pcs.
	30	AXN330130S	AXN430030S	30 pcs.	300 pcs.	AXN330130P	5)		
	40	AXN340130S	AXN440030S	25 pcs.	300 pcs.	AXN340130P	AXN440040P Note 5)		
	50	AXN350130S	AXN450030S	20 pcs.	300 pcs.	AXN350130P	5)		
	60	AXN360130S	AXN460030S	15 pcs.	300 pcs.	AXN360130P	AXN460040P Note 5)		
	80	AXN380130S	AXN480030S	12 pcs.	300 pcs.	AXN380130P	5)		

**Notes:**

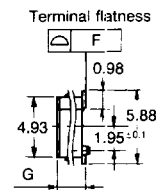
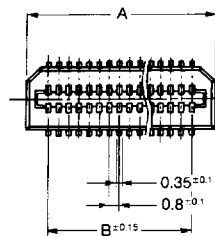
- Please add following suffix at \* marked positions.  
P: Inner carton (1 reel) 1,000 pcs. (Outer carton: 2,000 pcs.)  
J: Inner carton (1 reel) 1,500 pcs. (Outer carton: 3,000 pcs.)
- As for the part No. P is suffixed, only 1,000 pcs. reel is available.
- Connectors with suction tape are also available except for 16 contacts type. For this type of connector, insert the letter "C" between the 6th and 7th column of the ordering number.  
Example: For a 20-contact socket with 3mm stacking height (embossed tape package): AXN320C038P
- The standard type comes with positioning bosses. Connectors with no positioning bosses are available for on-demand production (3,000 pcs/lot or more).
- Regarding of 100-contact connectors are please consult us. In an embossed tape package as the required embossed tape width exceeds the JIS standard.
- The standard type of 13mm embossed tape package does not come with positioning bosses.

## DIMENSIONS

mm General tolerance: ±0.3

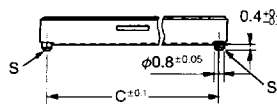
• Stacking height 3mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 13mm type

1) Socket body



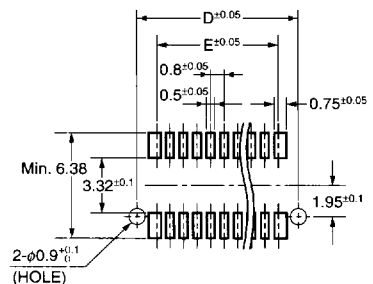
Dimension table (mm)

No. of contacts	A	B	C	D	E	F
16	9.00	5.60	7.90	7.90	5.60	0.1
20	10.60	7.20	9.50	9.50	7.20	
22	11.40	8.00	10.30	10.30	8.00	
24	12.20	8.80	11.10	11.10	8.80	
26	13.00	9.60	11.90	11.90	9.60	
30	14.60	11.20	13.50	13.50	11.20	
34	16.20	12.80	15.10	15.10	12.80	0.15
40	18.60	15.20	17.50	17.50	15.20	
50	23.40	19.20	21.50	21.50	19.20	
60	27.40	23.20	25.50	25.50	23.20	
80	35.40	31.20	33.50	33.50	31.20	
90	39.40	35.20	37.50	37.50	35.20	
100	43.40	39.20	41.50	41.50	39.20	



S: Positioning boss

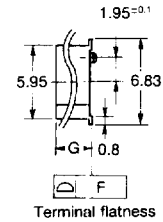
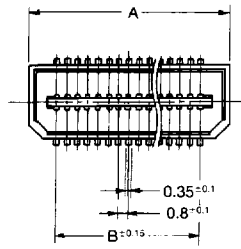
Recommended PC board pattern (top view)



Stacking height	G
3mm, 4mm, 5mm common	2.2
3.5mm, 4.5mm, 5.5mm common	2.7
6mm, 7mm, 8mm, 13mm common	5.2

**For Tape and Reel dimensions  
please see pages 35-38.**

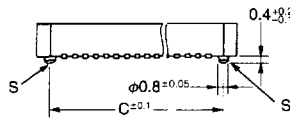
## 2) Header



**Dimension table (mm)**

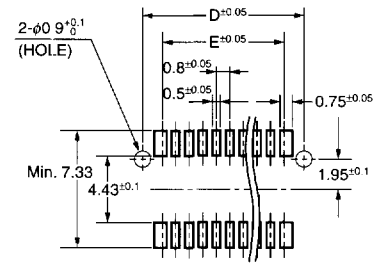
No. of contacts	A	B	C	D	E	F
16	10.05	5.60	7.90	7.90	5.60	0.1
20	11.65	7.20	9.50	9.50	7.20	
22	12.45	8.00	10.30	10.30	8.00	
24	13.25	8.80	11.10	11.10	8.80	
26	14.05	9.60	11.90	11.90	9.60	
30	15.65	11.20	13.50	13.50	11.20	
34	17.25	12.80	15.10	15.10	12.80	0.15
40	19.65	15.20	17.50	17.50	15.20	
50	25.85	19.20	21.50	21.50	19.20	
60	29.85	23.20	25.50	25.50	23.20	
80	37.85	31.20	33.50	33.50	31.20	
90	41.85	35.20	37.50	37.50	35.20	
100	45.85	39.20	41.50	41.50	39.20	

Stacking height	G
3mm, 3.5mm, 6mm common	2.72
4mm, 4.5mm, 7mm common	3.72
5mm, 5.5mm, 8mm common	4.72
13mm	10.14

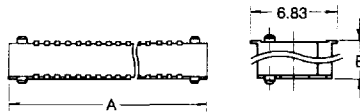
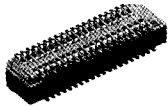


S: Positioning boss

**Recommended PC board pattern (top view)**



## 3) Socket and header are mated



**Dimension table (mm)**

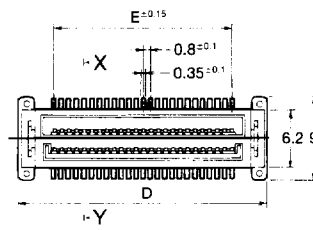
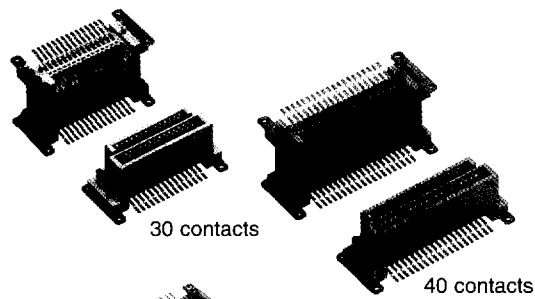
No. of contacts	A	Stacking height	B
16	10.05	3mm	3
20	11.65		
22	12.45	3.5mm	3.5
24	13.25		
26	14.05	4mm	4
30	15.65		
34	17.25	4.5mm	4.5
40	19.65		
40	19.65	5mm	5
50	25.85		
50	25.85	5.5mm	5.5
60	29.85		
60	29.85	6mm	6
80	37.85		
80	37.85	7mm	7
90	41.85		
90	41.85	8mm	8
100	45.85		
100	45.85	13mm	13

Note) Specifications described in this page are subject to change without notice.  
For details please consult us.

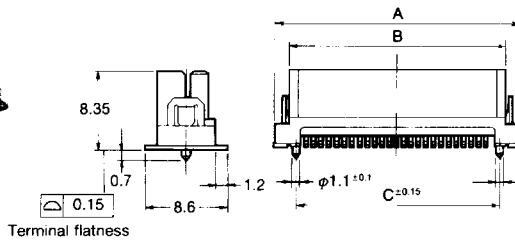
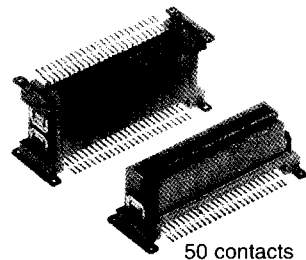
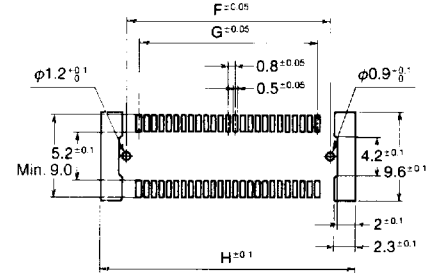
# AXN(1/3/4)

• Stacking height 11.5mm type

mm General tolerance:  $\pm 0.3$

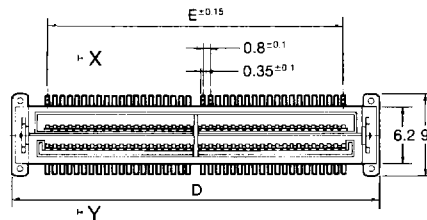
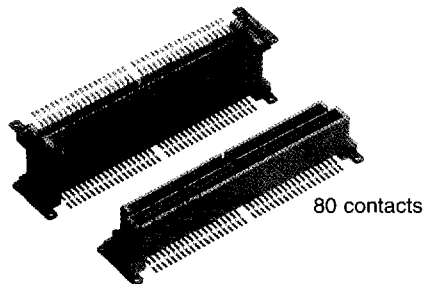
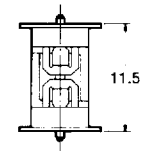
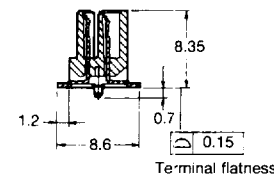


Recommended PC board pattern (top view)

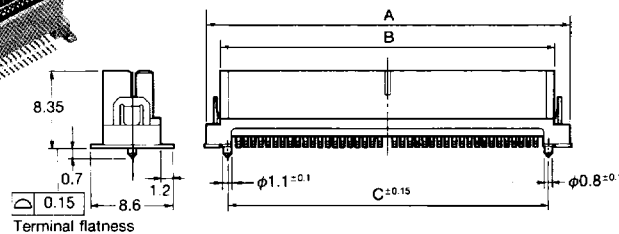
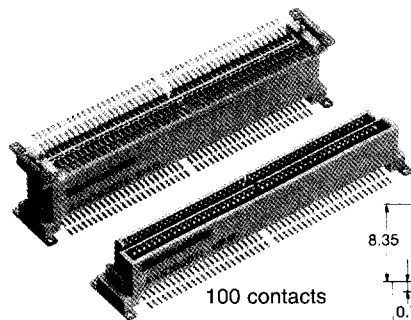
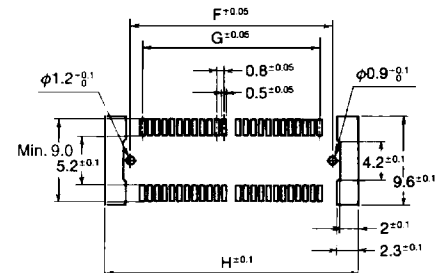


X-Y cross section

Stacking mated diagram

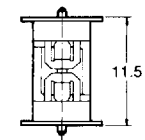
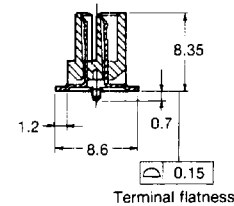


Recommended PC board pattern (top view)



X-Y cross section

Stacking mated diagram



Note) Center terminal is removed for 80 and 100 contact type

Dimension table (mm)

No. of contacts	A	B	C	D	E	F	G	H
30	18.3	15.3	14.0	18.9	11.2	14.0	11.2	19.5
40	22.3	19.3	18.0	22.9	15.2	18.0	15.2	23.5
50	26.3	23.3	22.0	26.9	19.2	22.0	19.2	27.5
80	39.1	36.1	34.8	39.7	32.0	34.8	32.0	40.3
100	47.1	44.1	42.8	47.7	40.0	42.8	40.0	48.3

# DATA: HIGH FREQUENCY CHARACTERISTICS

## 1. Stacking height: 3mm n=5

		Frequency			
		30MHz	100MHz	200MHz	300MHz
Isolation (dB)	Between terminals	70 (70~70)	53 (53~53)	41 (40~41)	34 (34~34)
	Between GND terminals	75 (75~75)	64 (64~64)	52 (52~53)	46 (46~46)

## 2. Stacking height: 11.5mm n=5

		Frequency			
		30MHz	100MHz	200MHz	300MHz
Isolation (dB)	Between terminals	60 (58~63)	43 (43~43)	32 (32~33)	25 (25~26)
	Between GND terminals	70 (70~70)	55 (52~57)	43 (42~45)	36 (35~38)

## NOTES

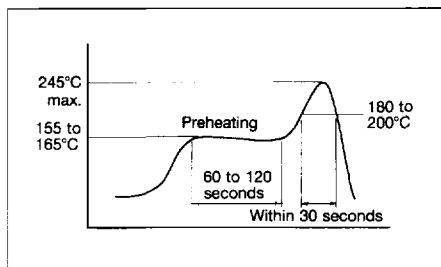
### 1. Screen thickness during solder printing

Following is a recommended screen thickness for respective stacking height type during cream solder printing.

Stacking height	Screen thickness during cream solder printing
3mm, 4mm, 5mm, 6mm, 7mm, 8mm	0.2mm
6.5mm, 11.5mm	0.2mm to 0.25mm

### 2. Infrared reflow

When performing soldering using infrared reflow, the peak surface temperature of the PC board should not exceed 245°C. The recommended conditions for the reflow temperature profile are shown in the figure on the top right.



3. Note that types having a stacking height of 11.5mm cannot be mated with products having other stacking heights even though the shape of their socket headers is the same as the rated shape (position of the positioning boss and arrangement of mounting pads) is different.

### 4. Preventing vibration and shock

To prevent the PC board from drop-off faults and to protect soldered spots from direct stress, use vibration-proof pads across boards.

5. Since excessive force on the terminals will cause deformation and the integrity of the soldering will be lost during reflow soldering, avoid dropping or rough handling of the product.

6. When mating the connector before soldering, take care not to deform its terminals or fittings. Do not apply excessive stress to terminals as this may cause loose terminals.

7. Keep the PC board warp 0.1mm or below as against the overall length of the connector.

8. These models are made very thin so that they may be smaller in size and lighter in weight than before. Take care not to give them excessive force when mating them together or unmating them; otherwise, breakage may result.

9. During manual soldering, do not apply flux to the connector leads or PC board as connector contacts may be contaminated with flux.

10. The color of the connector mold resin may differ slightly from one lot to another, but this has no affect on connector performance.

**For Tape and Reel dimensions please see pages 35-38.**