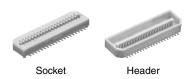
# Panasonic ideas for life

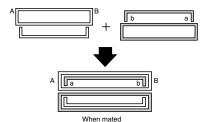


#### **Compliance with RoHS Directive**

#### **FEATURES**

- 1. The product lineup consists of the low profile of 3.0 mm, 3.5 mm, 4.0 mm, 4.5 mm, 5.0 mm, 5.5 mm, 6.0 mm, 7.0 mm, 8.0 mm, 11.5 mm, and 13.0 mm 14.0 mm.
- 2. For the 11.5-mm type, the socket and header have the same shape.

This simplifies management of stock and delivering.



#### NARROW-PITCH CONNECTORS FOR PC BOARDS

3. Perfect for portable devices, the bellows-type contacts provide a strong resistance against falling, impacts, and forced insertions and removals.

#### **Bellows-type contacts**

Bellows-type contacts resist mating stress and offer high contact reliability.

Ex.: Stacking height of 3.0 mm

The bellows type contacts are fabricated by bending thin sheet metal. They offer reliable contact since a rounded corner, instead of a sharp edge, is used for tuning fork type contact.

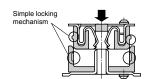
Round corner makes contact.

# 4. Porosity treatment applied for improved resistance against corrosion.

#### 5. Simple lock mechanism

Lock mechanism ensures proper contact and provides resistance against vibrations and shocks.

3.0 mm, 3.5 mm, 4.0 mm, 4.5 mm, 5.0 mm, 5.5 mm, 6.0 mm, 7.0 mm, 8.0 mm, 13.0 mm, and 14.0 mm.



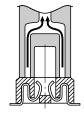
The simple lock mechanism is not featured on the 11.5-mm type. However, proper contact and resistance against vibrations and shocks are both ensured by the long mating length.

# 6. Automatic mounting (excluding 11.5

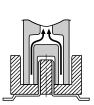
NARROW-PITCH (0.8mm)

1) Automatic mounting machine is available with an exclusive mounting nozzle

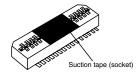
Using the following types of suction nozzles make the connectors compatible with automatic mounting without the need for suction tape.



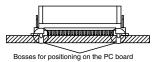
mm type)



Suction tape and covers are also available for compatibility with other types of mounting machines.



2) Positioning bosses (those without bosses are also available)



(those without bosses are also available).

Suitable for both manual and automatic mounting.

#### **APPLICATIONS**

Small portable equipment, laptop computers, video equipment, radio communication, cellular telephones, etc.

## **ORDERING INFORMATION**

1. P8 (11.5 mm)

AXN 1 0 1 1 5	
1: Narrow Pitch Connector P8 (0.8 mm pitch) Socket and header are common	
Number of contacts (2 digits)	
Suction cover Nil: Without suction tape C: With suction tape	
Terminal shape/Mated direction/Mated height 0: For SMD vertical mating, mated height 11.5 mm	
Functions 1: With soldering terminal, with positioning bosses	
Surface treatment (Contact portion / Terminal portion)  1: Ni plating on base, Au plating on surface / Ni plating on base, Au plating on surface	
Other specifications 5: Part control number	
Packing P: 1,000 pieces embossed tape and paper reel × 2 S: Tube package	
2. P8 (3.0 mm, 3.5 mm, 4.0 mm, 4.5 mm, 5.0 mm, 5.5 mm, 6.0 mm, 7.0 mm, 8.0 mm, 13.0 mm, 14.0 mm)	
	_
AXN	
3: Narrow Pitch Connector P8 (0.8 mm pitch) Socket 4: Narrow Pitch Connector P8 (0.8 mm pitch) Header	
Number of contacts (2 digits)	
Suction tape and cover Nil: Socket; without suction tape, Header; without suction cover C: Socket; with suction tape, Header; with suction cover	
Mated height	
<socket> 0: For mated height 3.0 mm, 4.0 mm and 5.0 mm 1: For mated height 6.0 mm, 7.0 mm, 8.0 mm, 13.0 mm and 14.0 mm 2: For mated height 3.5 mm, 4.5 mm and 5.5 mm <header> 0: For mated height 13.0 mm</header></socket>	
1: For mated height 14.0 mm	
3: For mated height 3.0 mm, 3.5 mm and 6.0 mm 4: For mated height 4.0 mm, 4.5 mm and 7.0 mm 5: For mated height 5.0 mm, 5.5 mm and 8.0 mm	
Functions 3: With positioning bosses (Except for mated height 13.0 mm header, embossed tape packing) 4: Without positioning bosses (Mated height 13.0 mm header, embossed tape packing and mated height 14.0 mm header only)	
Surface treatment (Contact portion / Terminal portion) <socket> 0: Ni plating on base, Au plating on surface / Ni plating on base, Au plating on surface (Applies to mated heights of 3.0 to 5.5 mm.) 8: Ni plating on base, Au plating on surface / Ni plating on base, Au plating on surface (Applies to mated heights of 6.0 to 14.0 mm.) <header></header></socket>	
0: Ni plating on base, Au plating on surface / Ni plating on base, Au plating on surface  Packing	
J: 1,500 pieces embossed tape and paper reel × 2 P: 1,000 pieces embossed tape and paper reel × 2 S: Tube package	
Notes: 1. The tape width for 100-pin embossed tape packaging is non-JIS standard. Please inquire. 2. The depth of the embossed tape for headers with 13 mm and 14 mm mated heights is non-JIS standard. Please test with your mounter before using. 3. Models possible for "J" packaging are as follows: Socket mated heights: 3.0 mm, 3.5 mm, 4.0 mm, 4.5 mm, 5.0 mm, and 5.5 mm Headers: Mated heights 3.0 mm, 3.5 mm, and 6.0 mm	

Panasonic Electric Works Automation Controls Business Unit panasonic-electric-works.net/ac

### **PRODUCT TYPES**

FNUI	ו טטע	ITPES								
			Stick package					ape package		
Mated	No. of	Part	Part No. Pac			Par	t No.	Packing quantity		
height	contacts	Socket	Header	Stick	Outer	Socket	Header	Inner carton	Outer carton	
	16	AXN316038S	AXN416330S	50 pcs.	carton 300 pcs.	AXN316038*	AXN416330*	(1 reel)		
	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*			
3.0 mm	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*			
	100	AXN300038S	AXN400330S	12 pcs.	300 pcs.	-	_			
	16	AXN316238S	AXN416330S	50 pcs.	300 pcs.	AXN316238*	AXN416330*			
0.5	24	AXN324238S	AXN424330S	30 pcs.	300 pcs.	AXN324238*	AXN424330*			
3.5 mm	26	AXN326238S	AXN426330S	30 pcs.	300 pcs.	AXN326238*	AXN426330*			
	30 60	AXN330238S AXN360238S	AXN430330S AXN460330S	30 pcs.	300 pcs.	AXN330238* AXN360238*	AXN430330* AXN460330*	_		
	16	AXN316038S	AXN416430S	15 pcs. 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			
4.0 mm	40	AXN340038S	AXN440430S	25 pcs.	300 pcs.	AXN340038*	AXN440430P			
	50	AXN350038S	AXN450430S	20 pcs.	300 pcs.	AXN350038*	AXN450430P			
	60	AXN360038S	AXN460430S	15 pcs.	300 pcs.	AXN360038*	AXN460430P			
	80	AXN380038S	AXN480430S	12 pcs.	300 pcs.	AXN380038*	AXN480430P			
	100	AXN300038S	AXN400430S	12 pcs.	300 pcs.	-	_			
	16	AXN316238S	AXN416430S	50 pcs.	300 pcs.	AXN316238*	AXN416430P	Note 1) "Asterisk" mark on "As		
4.5 mm	26	AXN326238S	AXN426430S	30 pcs.	300 pcs.	AXN326238*	AXN426430P			
	30	AXN330238S	AXN430430S	30 pcs.	300 pcs.	AXN330238*	AXN430430P			
	60	AXN360238S	AXN460430S	15 pcs.	300 pcs.	AXN360238*	AXN460430P			
	12	AXN312038S	AXN412530S	50 pcs.	300 pcs.	AXN312038*	AXN412530P			
	20	AXN314038S AXN320038S	AXN414530S AXN420530S	50 pcs. 50 pcs.	300 pcs.	AXN314038* AXN320038*	AXN414530P AXN420530P		Note 1) "Asterisk" mark on	
	24	AXN324038S	AXN424530S	30 pcs.	300 pcs.	AXN324038*	AXN424530P	end of part No.;	end of part No.;	
	26	AXN326038S	AXN426530S	30 pcs.	300 pcs.	AXN326038*	AXN426530P	J: 1,500 pieces (recommendation)	J: 3,000 pieces (recommendation)	
5.0 mm	30	AXN330038S	AXN430530S	30 pcs.	300 pcs.	AXN330038*	AXN430530P	P: 1,000 pieces	P: 2,000 pieces	
	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.	_	_			
	12	AXN312238S	AXN412530S	50 pcs.	300 pcs.	AXN312238*	AXN412530P			
	24	AXN324238S	AXN424530S	30 pcs.	300 pcs.	AXN324238*	AXN424530P			
5.5 mm	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			
	20	AXN320130S AXN324130S	AXN420330S AXN424330S	50 pcs. 30 pcs.	300 pcs.	AXN320130P AXN324130P	AXN420330* AXN424330*			
	26	AXN324130S	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*			
6.0 mm	50	AXN350130S	AXN450330S	20 pcs.	300 pcs.	AXN350130P	AXN450330*			
	60	AXN360130S	AXN460330S	15 pcs.	300 pcs.	AXN360130P	AXN460330*			
	64	AXN364130S	AXN464330S	15 pcs.	300 pcs.	AXN364130P	AXN464330*			
	80	AXN380130S	AXN480330S	12 pcs.	300 pcs.	AXN380130P	AXN480330*			
	100	AXN300130S	AXN400330S	12 pcs.	300 pcs.	_	_			
	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	-		
7.0 mm	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	-		
	100	AXN380130S	AXN480430S	12 pcs.	300 pcs.	AXN380130P	AXN480430P	-		
	100	AXN300130S	AXN400430S	12 pcs.	300 pcs.					

			Stick package			Embossed tape package			
Mated	No. of	Part	No.	Packing	quantity	Par	t No.	Packing	quantity
height	contacts	Socket	Header	Stick	Outer carton	Socket	Header	Inner carton (1 reel)	Outer carton
	20	AXN320130S	AXN420530S	50 pcs.	300 pcs.	AXN320130P	AXN420530P		
	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	1,000 pcs.	2,000 pcs.
8.0 mm	34	AXN334130S	AXN434530S	30 pcs.	300 pcs.	AXN334130P	AXN434530P	1,000 pcs.	2,000 pcs.
	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		
	100	AXN300130S	AXN400530S	12 pcs.	300 pcs.	_	_	_	_
	30	AXN1300115S (Socket, Header)		30 pcs.	300 pcs.	AXN1300115P (Socket, Header)		350 pcs.	700 pcs.
	40	AXN1400115S (	AXN1400115S (Socket, Header)		300 pcs.	AXN1400115P (Socket, Header)		350 pcs.	700 pcs.
11.5 mm	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.	_		_	_
	20	AXN320130S	AXN420030S	50 pcs.	300 pcs.	AXN320130P	AXN420040P Note 5)		
	30	AXN330130S	AXN430030S	30 pcs.	300 pcs.	AXN330130P	AXN430040P Note 5)		
13.0 mm	40	AXN340130S	AXN440030S	25 pcs.	300 pcs.	AXN340130P	AXN440040P Note 5)	Socket: 1,000 pcs.	Socket: 2,000 pcs.
13.0 mm	50	AXN350130S	AXN450030S	20 pcs.	300 pcs.	AXN350130P	AXN450040P Note 5)	Header: 500 pcs.	Header: 1,000 pcs.
	60	AXN360130S	AXN460030S	15 pcs.	300 pcs.	AXN360130P	AXN460040P Note 5)		
	80	AXN380130S	AXN480030S	12 pcs.	300 pcs.	AXN380130P	AXN480040P Note 5)		
14.0 mm	20	AXN320130S	AXN420130S	50 pcs.	300 pcs.	AXN320130P	AXN420130P	Socket: 1,000 pcs. Header: 400 pcs.	Socket: 2,000 pcs. Header: 800 pcs.

Notes) 1. Please add following suffix at \* marked positions.

- J: Inner carton (1 reel) 1,500 pcs. (Outer carton: 3,000 pcs.)
- P: Inner carton (1 reel) 1,000 pcs. (Outer carton: 2,000 pcs.)
  In order to reduce the amount of packaging materials used to help protect the global environment, it is recommended that each packaging box contains 1,500 units with the "J" product number suffix.
- As for the part No. P is suffixed, only 1,000 pcs. reel is available.
- 2. Regarding ordering units: During production: Please make orders in 1-reel units. Samples for mounting confirmation: Available in units of 50 pieces. Please consult us. (See "Regarding sample orders to confirm proper mounting" on page 19.) Samples: Small lot orders are possible. Change the suffix "J" to the suffix "P."
- 3. 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 mated height (embossed tape package): AXN320C038P

  4. The standard type comes with positioning bosses. Connectors without positioning bosses are available for on-demand production (3,000 pcs/lot or more).
- 5. Regarding of 100-contact connectors are please consult us. In an embosses tape package as the required embossed tape width exceeds the JIS standard.
- 6. The standard type of 13mm embossed tape package does not come with positioning bosses.

### **SPECIFICATIONS**

#### 1. Characteristics

Item		Specifi		
		3mm, 3.5mm, 4mm, 4.5mm, 5.0mm, 5.5mm, 6.0mm, 7.0mm, 8.0mm, 13.0mm, 14.0mm type		Conditions
	Rated current	0.8		
	Rated voltage	60V A	AC/DC	
Electrical	Breakdown voltage	250V AC fo	or 1 minute	Detection current: 1mA
characteristics	Insulation resistance	Min. 1,	0Μ00	Using 500V DC megger
	Contact resistance	Max. 60mΩ	Max. 50mΩ	Based on the contact resistance measurement method specified by JIS C 5402.
	Composite insertion force	Max. 43.1N {4.40kgf} (30 contacts)	Max. 0.785N {80gf} × no. of contacts (initial)	
Mechanical	Composite removal force	Min. 6.37N {0.65kgf} (30 contacts)	Min. 0.127N {13gf} × no. of contacts	
characteristics	Contact holding force	40 contacts or less: Min. 1.96N {200 gf} 50 contacts or more: Min. 0.981N {100 gf}	Min. 1.96N {200 gf}	Measuring the maximum force. As the contact is axially pull out.
	Ambient temperature	−55°C to	No freezing at low temperatures	
	Soldering heat resistance	Max. peak temperature of 245°C around the conn	Infrared reflow soldering	
		300°C within	Soldering iron	
	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	Sequence 1. –55.3°C, 30 minutes 2. ~, Max. 5 minutes 3. 85 <sup>+</sup> 3°C, 30 minutes 4. ~, Max. 5 minutes
Environmental characteristics	Humidity resistance (header and socket mated)	120 hours, insulation resistance min. 100 $M\Omega$ , contact resistance max. 60 $m\Omega$	240 hours, insulation resistance min. 100 $M\Omega$ , contact resistance max. 50m $\Omega$	Bath temperature 40±2°C, humidity 90 to 95% R.H.
	Saltwater spray resistance (header and socket mated)	24 hours, insulation resistance min. 100 $M\Omega$ , contact resistance max. 60 $m\Omega$	48 hours, insulation resistance min. 100 $M$ Ω, contact resistance max. 50 $m$ Ω	Bath temperature 35±2°C, saltwarter concentration 5±1%
	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.
ifetime characteristics	Insertion and removal life	50 times	100 times	Repeated insertion and removal speed of max. 200 times/hours
Jnit weight		Mated height 3mm 30 contacts; So 50 contacts; So		

#### 2. Material and surface treatment

Part name		.0mm, 4.5mm, 5.0mm, 5.5mm, 3.0mm, 13.0mm, 14.0mm 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	Cu plating on base, Sn plating on surface	
Contact	Copper alloy	Contact portion: Ni plating on base, Au plating on surface Terminal portion: Ni plating on base, Au plating on surface (Except for thick of terminal)	Copper alloy	Contact portion: Ni plating on base, Au plating on surface Terminal portion: Ni plating on base, Au plating on surface (Except for thick of terminal)	

**DIMENSIONS** (Unit: mm)

The CAD data of the products with a CAD Data mark can be downloaded from: http://panasonic-electric-works.net/ac

• Mated height 3.0mm, 4.0mm, 4.5mm, 5.0mm, 5.5mm, 6.0mm, 7.0mm, 8.0mm, 13.0mm, 14.0mm type 1) Socket

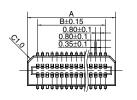


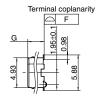


#### Dimension table (mm)

No. of contacts	А	В	С	D	Е	F
12	7.40	4.00	6.30	6.30	4.00	
14	8.20	4.80	7.10	7.10	4.80	
16	9.00	5.60	7.90	7.90	5.60	
20	10.60	7.20	9.50	9.50	7.20	
22	11.40	8.00	10.30	10.30	8.00	0.1
24	12.20	8.80	11.10	11.10	8.80	0.1
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	
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	
64	29.00	24.80	27.10	27.10	24.80	0.15
80	35.40	31.20	33.50	33.50	31.20	
100	43.40	39.20	41.50	41.50	39.20	

Mated height				
3.0mm, 4.0mm, 5.0mm common	2.2			
3.5mm, 4.5mm, 5.5mm common	2.7			
6.0mm, 7.0mm, 8.0mm, 13.0mm, 14.0mm common	5.2			

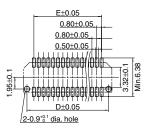






General tolerance: ±0.3

# Recommended PC board pattern (TOP VIEW)



#### 2) Header

#### **CAD Data**

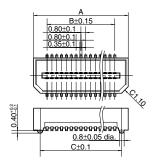


#### Dimension table (mm)

	No. of contacts	А	В	С	D	Е	F
	12	8.45	4.00	6.30	6.30	4.00	
	14	9.25	4.80	7.10	7.10	4.80	
	16	10.05	5.60	7.90	7.90	5.60	
	20	11.65	7.20	9.50	9.50	7.20	
	22	12.45	8.00	10.30	10.30	8.00	0.1
	24	13.25	8.80	11.10	11.10	8.80	0.1
	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	
	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	<b>.</b>
	64	31.45	24.80	27.10	27.10	24.80	Note) 0.15
	80	37.85	31.20	33.50	33.50	31.20	0.10
	100	45.85	39.20	41.50	41.50	39.20	

Note) The 13 mm mated height (20 to 80 contacts) terminal flatness is 0.1 mm.

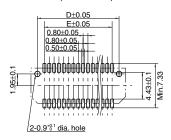
Mated height	G
3.0mm, 3.5mm, 6.0mm common	2.72
4.0mm, 4.5mm, 7.0mm common	3.72
5.0mm, 5.5mm, 8.0mm common	4.72
13.0mm	10.14
14.0mm	11.14



98.9

General tolerance: ±0.3

Recommended PC board pattern (TOP VIEW)



#### 3) Socket and header are mated

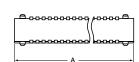


#### Dimension table (mm)

No. of contacts	А
12	8.45
14	9.25
16	10.05
20	11.65
22	12.45
24	13.25
26	14.05
30	15.65
34	17.25
40	19.65
50	25.85
60	29.85
64	31.45
80	37.85
90	41.85
100	45.85

Mated height	В
3.0mm	3
3.5mm	3.5
4.0mm	4
4.5mm	4.5
5.0mm	5
5.5mm	5.5
6.0mm	6
7.0mm	7
8.0mm	8
13.0mm	13
14.0mm	14

Note) Common for all mated heights.

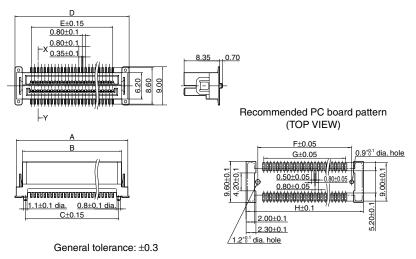




 Mated height 11.5mm type (Socket and Header) (30 contacts, 40 contacts, 50 contacts)

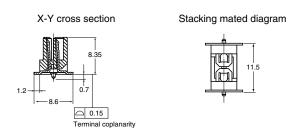
#### CAD Data





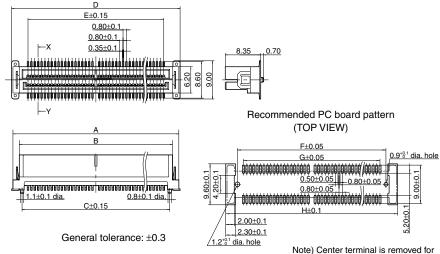
Dimension table (mm)

		٠,						
No. of contacts	А	В	С	D	Е	F	G	Ι
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



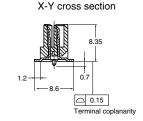
 Mated height 11.5mm type (Socket and Header) (80 contacts, 100 contacts)

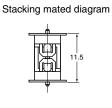




Dimension table (mm)

No. of contacts	А	В	С	D	Е	F	G	Н		
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		

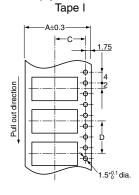


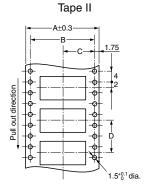


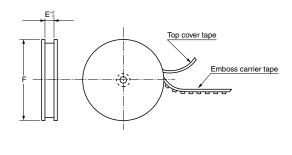
80 and 100 contact type

#### EMBOSSED TAPE DIMENSIONS (unit: mm, Common for respective contact type, socket and header)

- Tape dimensions (Conforming to JIS C 0806-1990.
   However, some tapes have mounting hole pitches that do not comply with the standard.)
- Paper reel dimensions (Conforming to JIS C 0806-1990)







#### Dimension table (mm)

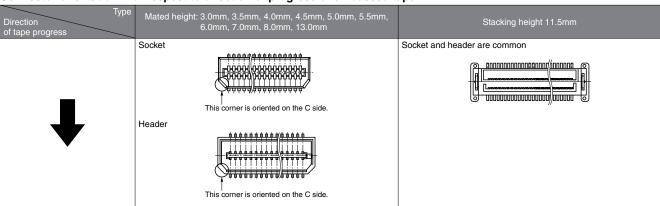
(1) Suffix: J (1 reel, 1,500 pieces embossed tape package)

Mated height	No. of contacts	Type of taping	А	В	С	D	Е	F	Quantity per reel
	12 to 32	Tape I	24.0	_	11.5	12.0	24.4	370 dia.	- 1,500 pcs.
Socket: 3.0mm, 3.5mm, 4.0mm, 4.5mm, 5.0mm, 5.5mm	34 to 40	Tape II	32.0	28.4	14.2	12.0	32.4	370 dia.	
4.5mm, 5.5mm, 5.5mm Header: 3.0mm, 3.5mm, 6.0mm	50 to 60	Tape II	44.0	40.4	20.2	12.0	44.4	370 dia.	
	80	Tape II	56.0	52.4	26.2	12.0	56.4	370 dia.	

(2) Suffix: P (1 reel, 1,000, 500, 350 and 250 pieces embossed tape package)

Mated height	No. of contacts	Type of taping	А	В	С	D	Е	F	Quantity per reel
Socket: 3.0mm, 3.5mm, 4.0mm,	12 to 32	Tape I	24.0	_	11.5	12.0	24.4	330 dia.	- 1,000 pcs.
4.5mm, 5.0mm, 5.5mm	34 to 40	Tape II	32.0	28.4	14.2	12.0	32.4	330 dia.	
Header: 3.0mm, 3.5mm, 4.0mm,	50 to 60	Tape II	44.0	40.4	20.2	12.0	44.4	330 dia.	
4.5mm, 6.0mm, 7.0mm	80	Tape II	56.0	52.4	26.2	12.0	56.4	330 dia.	
	16 to 32	Tape I	24.0	_	11.5	12.0	24.4	370 dia.	1,000 pcs.
Socket: 6.0mm, 7.0mm, 8.0mm,	34 to 40	Tape II	32.0	28.4	14.2	12.0	32.4	370 dia.	
13.0mm, 14.0mm Header: 5.0mm, 5.5mm, 8.0mm	50 to 60	Tape II	44.0	40.4	20.2	12.0	44.4	370 dia.	
	80	Tape II	56.0	52.4	26.2	12.0	56.4	370 dia.	
	30 to 40	Tape II	32.0	28.4	14.2	24.0	32.4	370 dia.	350 pcs.
11.5mm	50	Tape II	44.0	40.4	20.2	24.0	44.4	370 dia.	350 pcs.
	80	Tape II	56.0	52.4	26.2	24.0	56.4	370 dia.	250 pcs.
	20	Tape I	24.0	_	11.5	16.0	24.4	370 dia.	500 pcs.
	30	Tape I	24.0	_	11.5	16.0	24.4	370 dia.	500 pcs.
Hooder: 12 0mm	40	Tape II	32.0	28.4	14.2	16.0	32.4	370 dia.	500 pcs.
Header: 13.0mm	50	Tape II	44.0	40.4	20.2	16.0	44.4	370 dia.	500 pcs.
	60	Tape II	44.0	40.4	20.2	16.0	44.4	370 dia.	500 pcs.
	80	Tape II	56.0	52.4	26.2	16.0	56.4	370 dia.	500 pcs.
Header: 14.0mm	20	Tape I	24.0	_	11.5	16.0	24.4	370 dia.	400 pcs.

#### Connector orientation with respect to direction of progress of embossed tape



#### **NOTES**

Note that types having a mated height of 11.5mm cannot be mated with products having other mated 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.

For other details, please verify with the product specification sheets.