

Products marked  are discontinued as of September 30, 2013

Panasonic

ideas for life

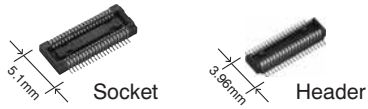
For board-to-board | For board-to-FPC

**Narrow pitch connectors
(0.4mm pitch)**

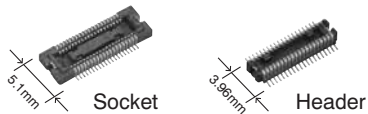
P4 Series




• Without soldering terminals



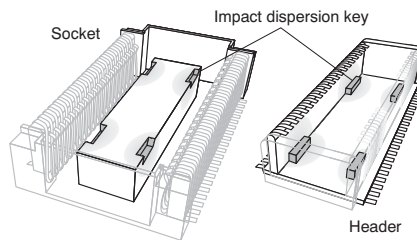
• With soldering terminals



 Products to be discontinued.

FEATURES

1. 0.4 mm pitch and support for mated heights of up to 1.5 mm, 2.0 mm, 2.5 mm, 3.0 mm, 3.5 mm, and 4.0 mm.
2. Strong resistance to adverse environments! Utilizes **TOUGH CONTACT** construction for high contact reliability.
3. Constructed with impact dispersion keys inside the body to disperse shocks when dropped.



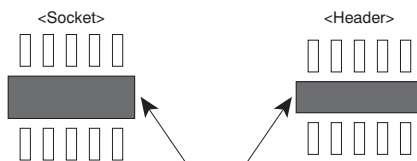
A high level of shock resistance is ensured by dispersing impact over the four locations where the socket indentations and header protrusions are mated together.

Note: The following numbers of pins are not supported due to suction surface factors.

- Without soldering terminals:
18 pin contacts or less
- With soldering terminals:
22 pin contacts or less

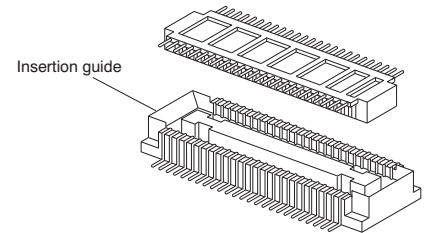
4. Construction makes designing devices easier.

1) The lower connector bottom surface construction prevents contact and shorts between the PCB and metal terminals. This enables freedom in pattern wiring, helping to make PCB's smaller.

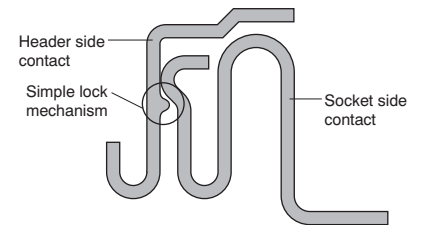


Connector bottom: Create any thru-hole and pattern wiring.

2) Guides are provided to take up any position shift and facilitate insertion.



3) Guides are provided to take up any position shift and facilitate insertion.



5. Design facilitates efficient mounting.

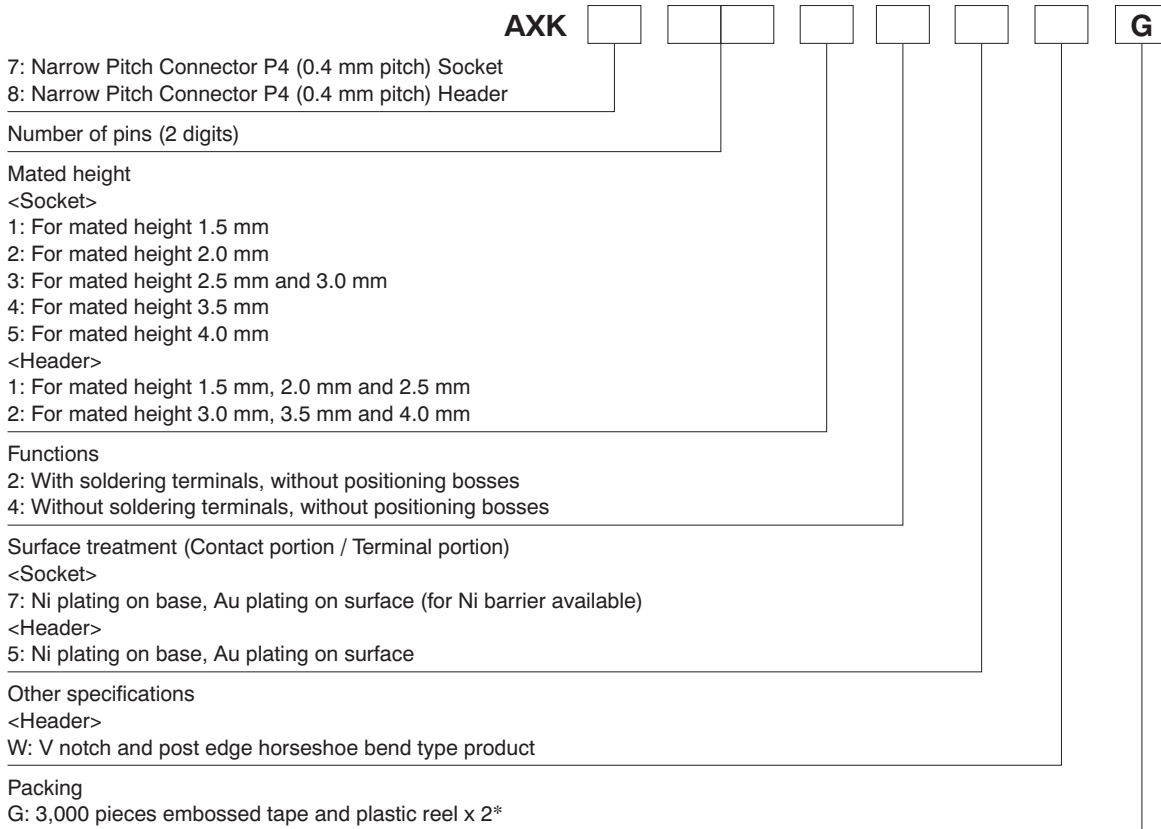
Features a terminal flatness of 0.08 mm, construction resistant to creeping flux, and design that allows visual inspection of the soldered part.

6. Connectors for inspection available

APPLICATIONS

Mobile devices, such as cellular phones, digital still cameras and digital video cameras.
















ORDERING INFORMATION



Notes: 1. Only a socket of mated height 3.5 mm and 4.0 mm: 2,000 pieces embossed tape and plastic reel x 2.
 2. Please note that the models with a soldering terminals (8th digit of part number is "2") and those without a soldering terminals (8th digit of part number is "4") are shaped differently and are not compatible.

PRODUCT TYPES

1. Without soldering terminals

Mated height	Number of pins	Part number		Packing	
		Socket	Header	Inner carton	Outer carton
		<i>TOUGH CONTACT</i>	<i>TOUGH CONTACT</i>		
1.5 mm	14	AXK714147G	AXK814145WG	3,000 pieces	6,000 pieces
	 16	AXK716147G	AXK816145WG		
	20	AXK720147G	AXK820145WG		
	22	AXK722147G	AXK822145WG		
	24	AXK724147G	AXK824145WG		
	26	AXK726147G	AXK826145WG		
	 28	AXK728147G	AXK828145WG		
	30	AXK730147G	AXK830145WG		
	34	AXK734147G	AXK834145WG		
	 36	AXK736147G	AXK836145WG		
	40	AXK740147G	AXK840145WG		
	 42	AXK742147G	AXK842145WG		
	44	AXK744147G	AXK844145WG		
	50	AXK750147G	AXK850145WG		
	54	AXK754147G	AXK854145WG		
	60	AXK760147G	AXK860145WG		
	64	AXK764147G	AXK864145WG		
	70	AXK770147G	AXK870145WG		
	80	AXK780147G	AXK880145WG		
 90	AXK790147G	AXK890145WG			
100	AXK700147G	AXK800145WG			
2.0 mm	14	AXK714247G	AXK814145WG	3,000 pieces	6,000 pieces
	20	AXK720247G	AXK820145WG		
	24	AXK724247G	AXK824145WG		
	26	AXK726247G	AXK826145WG		
	30	AXK730247G	AXK830145WG		
	 34	AXK734247G	AXK834145WG		
	 38	AXK738247G	AXK838145WG		
	40	AXK740247G	AXK840145WG		
	50	AXK750247G	AXK850145WG		
	 54	AXK754247G	AXK854145WG		
	60	AXK760247G	AXK860145WG		
	70	AXK770247G	AXK870145WG		
80	AXK780247G	AXK880145WG			
 100	AXK700247G	AXK800145WG			
2.5 mm	14	AXK714347G	AXK814145WG	3,000 pieces	6,000 pieces
	20	AXK720347G	AXK820145WG		
	24	AXK724347G	AXK824145WG		
	30	AXK730347G	AXK830145WG		
	 34	AXK734347G	AXK834145WG		
	40	AXK740347G	AXK840145WG		
	 44	AXK744347G	AXK844145WG		
	50	AXK750347G	AXK850145WG		
	60	AXK760347G	AXK860145WG		
	70	AXK770347G	AXK870145WG		
	80	AXK780347G	AXK880145WG		
 90	AXK790347G	AXK890145WG			
 100	AXK700347G	AXK800145WG			
3.0 mm	20	AXK720347G	AXK820245WG	Socket: 2,000 pieces Header: 3,000 pieces	Socket: 4,000 pieces Header: 6,000 pieces
	24	AXK724347G	AXK824245WG		
	30	AXK730347G	AXK830245WG		
	40	AXK740347G	AXK840245WG		
	50	AXK750347G	AXK850245WG		
	60	AXK760347G	AXK860245WG		
	80	AXK780347G	AXK880245WG		
 100	AXK700347G	AXK800245WG			
3.5 mm	20	AXK720447G	AXK820245WG	Socket: 2,000 pieces Header: 3,000 pieces	Socket: 4,000 pieces Header: 6,000 pieces
	30	AXK730447G	AXK830245WG		
	40	AXK740447G	AXK840245WG		
4.0 mm	 24	AXK724547G	AXK824245WG		


Notes: 1. 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 4 of the [Connector Technical Information](#).)

Samples: Small lot orders are possible.

2. The above part numbers are for connectors without positioning bosses, which are standard. When ordering connectors with positioning bosses, please contact our sales office.

3. Different number of pins are available on-demand production only. Please contact us for more details.

2. With soldering terminals 

Mated height	Number of pins	Part number		Packing	
		Socket	Header	Inner carton	Outer carton
		<i>TOUGH CONTACT</i>	<i>TOUGH CONTACT</i>		
1.5 mm	10	AXK710127G	AXK810125WG	3,000 pieces	6,000 pieces
	 12	AXK712127G	AXK812125WG		
	 20	AXK720127G	AXK820125WG		
	 22	AXK722127G	AXK822125WG		
	 24	AXK724127G	AXK824125WG		
	 28	AXK728127G	AXK828125WG		
	 30	AXK730127G	AXK830125WG		
	34	AXK734127G	AXK834125WG		
	 36	AXK736127G	AXK836125WG		
	40	AXK740127G	AXK840125WG		
	 44	AXK744127G	AXK844125WG		
	 46	AXK746127G	AXK846125WG		
	 50	AXK750127G	AXK850125WG		
	 60	AXK760127G	AXK860125WG		
	 80	AXK780127G	AXK880125WG		
 90	AXK790127G	AXK890125WG			
 100	AXK700127G	AXK800125WG			
2.0 mm	 20	AXK720227G	AXK820125WG		
	 24	AXK724227G	AXK824125WG		
	 30	AXK730227G	AXK830125WG		
	34	AXK734227G	AXK834125WG		
	 40	AXK740227G	AXK840125WG		
	 50	AXK750227G	AXK850125WG		
	 60	AXK760227G	AXK860125WG		
	 80	AXK780227G	AXK880125WG		
2.5 mm	12	AXK712327G	AXK812125WG		
	20	AXK720327G	AXK820125WG		
	 28	AXK728327G	AXK828125WG		
	32	AXK732327G	AXK832125WG		
	 36	AXK736327G	AXK836125WG		
	40	AXK740327G	AXK840125WG		
	 50	AXK750327G	AXK850125WG		
	 60	AXK760327G	AXK860125WG		
	 80	AXK780327G	AXK880125WG		
 90	AXK790327G	AXK890125WG			
3.0 mm	20	AXK720327G	AXK820225WG		
	36	AXK736327G	AXK836225WG		
	 40	AXK740327G	AXK840225WG		
	 50	AXK750327G	AXK850225WG		
	60	AXK760327G	AXK860225WG		
	70	AXK770327G	AXK870225WG		
	80	AXK780327G	AXK880225WG		
 90	AXK790327G	AXK890225WG			
3.5 mm	 20	AXK720427G	AXK820225WG	Socket: 2,000 pieces Header: 3,000 pieces	Socket: 4,000 pieces Header: 6,000 pieces
	 30	AXK730427G	AXK830225WG		
	 40	AXK740427G	AXK840225WG		
	 50	AXK750427G	AXK850225WG		
	60	AXK760427G	AXK860225WG		
	70	AXK770427G	AXK870225WG		
4.0 mm	 34	AXK734527G	AXK834225WG	Socket: 2,000 pieces Header: 3,000 pieces	Socket: 4,000 pieces Header: 6,000 pieces
	 42	AXK742527G	AXK842225WG		
	 50	AXK750527G	AXK850225WG		
	 80	AXK780527G	AXK880225WG		

Notes: 1. Regarding ordering units; During production: Please make orders in 1-reel units.

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Samples: Small lot orders are possible.

2. The above part numbers are for connectors without positioning bosses, which are standard. When ordering connectors with positioning bosses, please contact our sales office.

3. Different number of pins are available on-demand production only. Please contact us for more details.

SPECIFICATIONS


1. Characteristics

Item		Specifications	Conditions																
Electrical characteristics	Rated current	0.3A/pin contact (Max. 5 A at total pin contacts)																	
	Rated voltage	60V AC/DC																	
	Breakdown voltage	150V AC for 1 min.	Detection current: 1mA																
	Insulation resistance	Min. 1,000MΩ (initial)	Using 250V DC megger (applied for 1 min.)																
	Contact resistance	Max. 70mΩ	Based on the contact resistance measurement method specified by JIS C 5402.																
Mechanical characteristics	Composite insertion force	Max. 0.981N {100gf}/pin contacts × pin contacts (initial)																	
	Composite removal force	Min. 0.0588N {6gf}/pin contacts × pin contacts (Mated height 1.5 mm without soldering terminals type) Min. 0.118N {12gf}/pin contacts × pin contacts All the other types except the above (Mated height 1.5 mm without soldering terminals type)																	
	Post holding force	Min. 0.981N {100gf}/pin contacts	Measuring the maximum force. As the contact is axially pull out.																
Environmental characteristics	Ambient temperature	-55°C to +85°C	No freezing at low temperatures																
	Soldering heat resistance	Max. peak temperature of 260°C (on the surface of the PC board around the connector terminals)	Infrared reflow soldering																
		300°C within 5 sec. 350°C within 3 sec.	Soldering iron																
	Storage temperature	-55°C to +85°C (product only) -40°C to +50°C (emboss packing)	No freezing at low temperatures. No dew condensation.																
	Thermal shock resistance (header and socket mated)	5 cycles, insulation resistance min. 100MΩ, contact resistance max. 70mΩ	Conformed to MIL-STD-202F, method 107G																
			<table border="1"> <thead> <tr> <th>Order</th> <th>Temperature (°C)</th> <th>Time (minutes)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-55⁰/₋₃</td> <td>30</td> </tr> <tr> <td>2</td> <td>}</td> <td>Max. 5</td> </tr> <tr> <td>3</td> <td>85⁺³/₀</td> <td>30</td> </tr> <tr> <td>4</td> <td>}</td> <td>Max. 5</td> </tr> <tr> <td></td> <td>-55⁰/₋₃</td> <td></td> </tr> </tbody> </table>	Order	Temperature (°C)	Time (minutes)	1	-55 ⁰ / ₋₃	30	2	}	Max. 5	3	85 ⁺³ / ₀	30	4	}	Max. 5	
	Order	Temperature (°C)	Time (minutes)																
1	-55 ⁰ / ₋₃	30																	
2	}	Max. 5																	
3	85 ⁺³ / ₀	30																	
4	}	Max. 5																	
	-55 ⁰ / ₋₃																		
Humidity resistance (header and socket mated)	120 hours, insulation resistance min. 100MΩ, contact resistance max. 70mΩ	Bath temperature 40±2°C, humidity 90 to 95% R.H.																	
Saltwater spray resistance (header and socket mated)	24 hours, insulation resistance min. 100MΩ, contact resistance max. 70mΩ	Bath temperature 35±2°C, saltwater concentration 5±1%																	
H ₂ S resistance (header and socket mated)	48 hours, contact resistance max. 70mΩ	Bath temperature 40±2°C, gas concentration 3±1 ppm, humidity 75 to 80% R.H.																	
Lifetime characteristics	Insertion and removal life	50 times	Repeated insertion and removal speed of max. 200 times/hours																
Unit weight		Mated height 1.5mm, 20 pin contacts; Socket: 0.04g Header: 0.02g																	

2. Material and surface treatment

Part name	Material	Surface treatment
Molded portion	LCP resin (UL94V-0)	—
Contact and Post	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) However, upper terminal of Ni barrier production: Exposed over Ni The area adjacent to the terminal of the sockets on models with Ni barrier is exposed to Ni on base.
Soldering terminals portion	Copper alloy	Ni plating on base, Sn plating on surface (Except for front terminal)

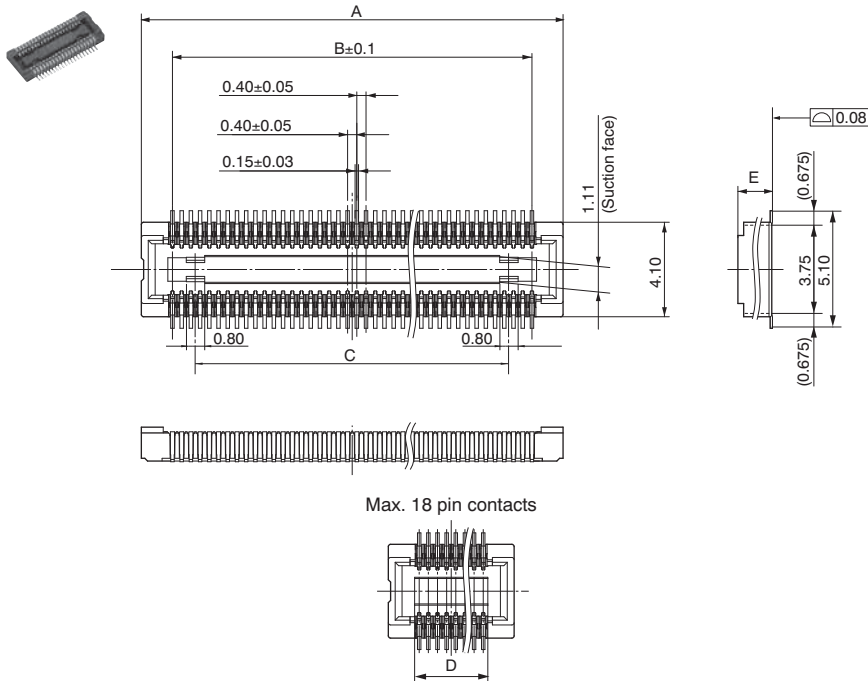
DIMENSIONS

Interested in CAD data? You can obtain CAD data for all products with a  mark from your local Panasonic Electric Works representative.

(Unit: mm)

1. Without Soldering Terminals

Socket (Mated height: 1.5 mm, 2.0 mm, 2.5 mm, 3.0 mm, 3.5 mm and 4.0 mm)



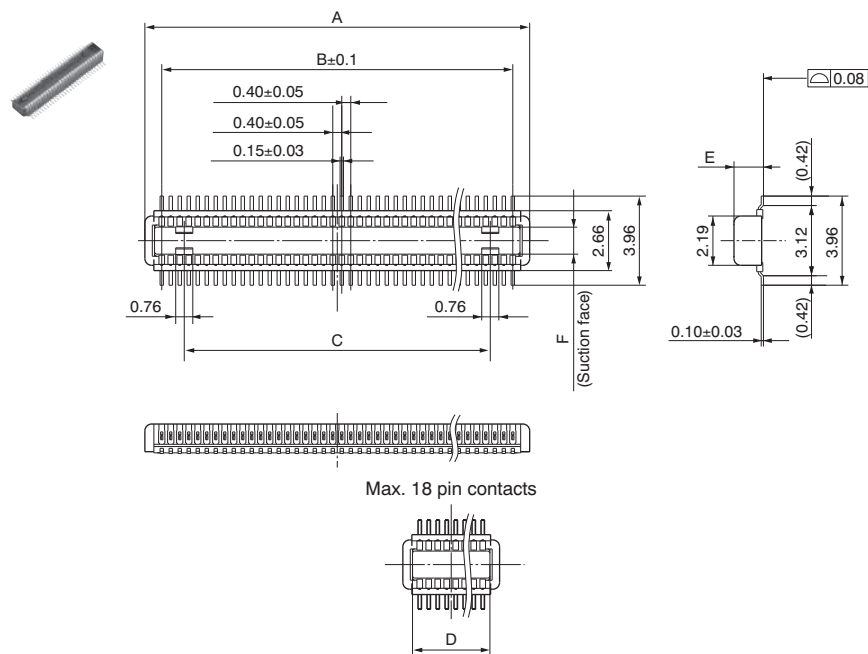
Dimension table (mm)

General tolerance: ±0.2

Number of pins/ dimension	A	B	C	D
14	5.1	2.4	—	2.8
16	5.5	2.8	—	3.2
20	6.3	3.6	1.6	—
22	6.7	4.0	2.0	—
24	7.1	4.4	2.4	—
26	7.5	4.8	2.8	—
28	7.9	5.2	3.2	—
30	8.3	5.6	3.6	—
34	9.1	6.4	4.4	—
36	9.5	6.8	4.8	—
38	9.9	7.2	5.2	—
40	10.3	7.6	5.6	—
42	10.7	8.0	6.0	—
44	11.1	8.4	6.4	—
50	12.3	9.6	7.6	—
54	13.1	10.4	8.4	—
60	14.3	11.6	9.6	—
64	15.1	12.4	10.4	—
70	16.3	13.6	11.6	—
80	18.3	15.6	13.6	—
90	20.3	17.6	15.6	—
100	22.3	19.6	17.6	—

Mated height/dimension	E
1.5mm	1.50
2.0mm	1.92
2.5mm, 3.0mm	2.42
3.5mm	2.92
4.0mm	3.42

Header (Mated height: 1.5 mm, 2.0 mm, 2.5 mm, 3.0 mm, 3.5 mm and 4.0 mm)



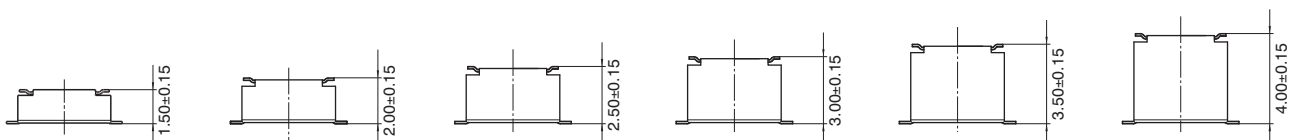
Dimension table (mm)

General tolerance: ±0.2

Number of pins/ dimension	A	B	C	D
14	3.9	2.4	—	3.04
16	4.3	2.8	—	3.44
20	5.1	3.6	1.6	—
22	5.5	4.0	2.0	—
24	5.9	4.4	2.4	—
26	6.3	4.8	2.8	—
28	6.7	5.2	3.2	—
30	7.1	5.6	3.6	—
34	7.9	6.4	4.4	—
36	8.3	6.8	4.8	—
38	8.7	7.2	5.2	—
40	9.1	7.6	5.6	—
42	9.5	8.0	6.0	—
44	9.9	8.4	6.4	—
50	11.1	9.6	7.6	—
54	11.9	10.4	8.4	—
60	13.1	11.6	9.6	—
64	13.9	12.4	10.4	—
70	15.1	13.6	11.6	—
80	17.1	15.6	13.6	—
90	19.1	17.6	15.6	—
100	21.1	19.6	17.6	—

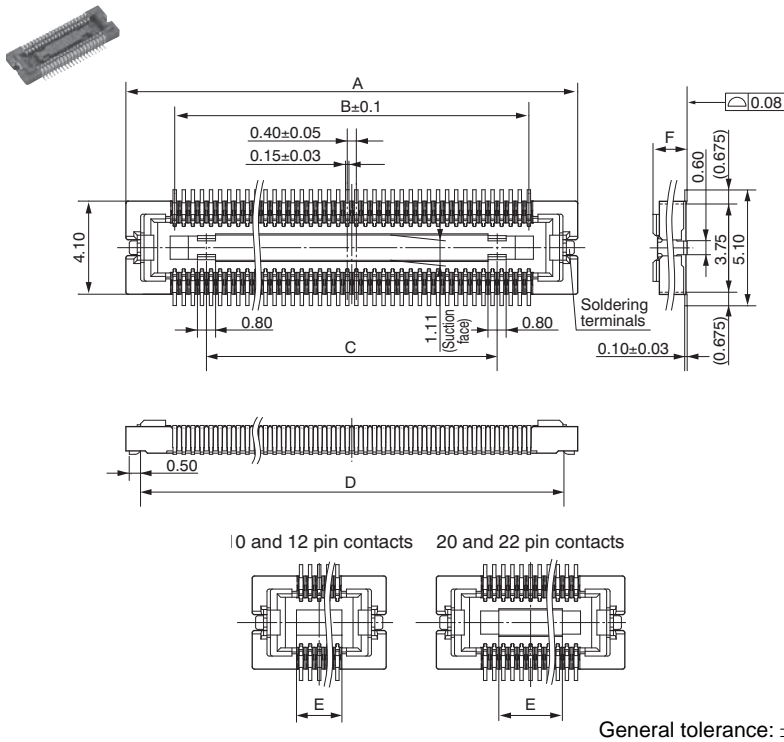
Mated height/dimension	E	F
1.5mm, 2.0mm, 2.5mm	1.31	1.20
3.0mm, 3.5mm, 4.0mm	2.26	1.26

Socket and Header are mated



2. With Soldering Terminals

Socket (Mated height: 1.5mm, 2.0mm, 2.5mm, 3.0mm, 3.5mm and 4.0mm)

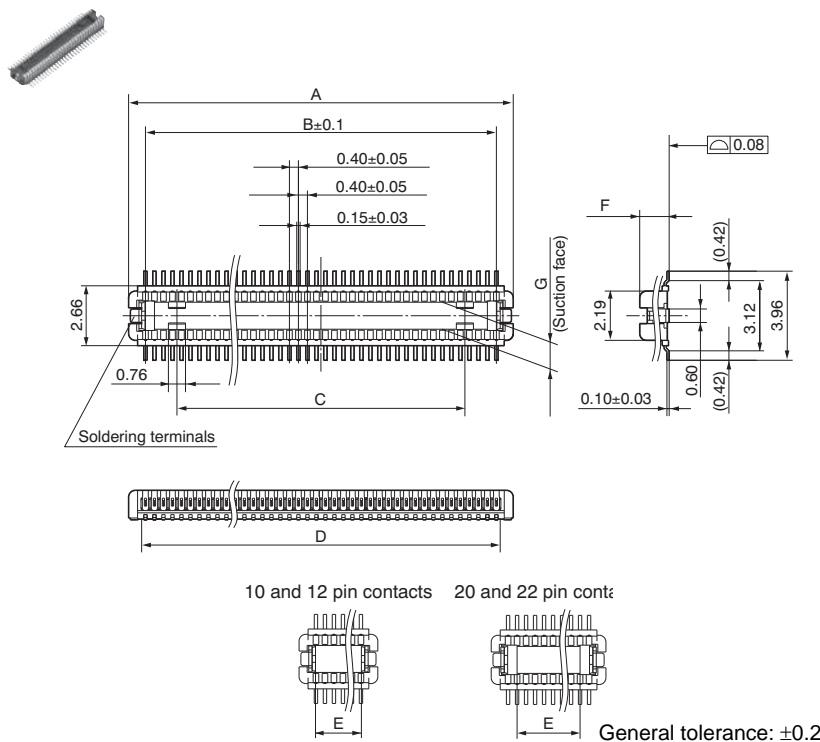


Dimension table (mm)

Number of pins/ dimension	A	B	C	D	E
10	5.90	1.60	—	4.60	2.00
12	6.30	2.00	—	5.00	2.40
20	7.90	3.60	—	6.60	2.40
22	8.30	4.00	—	7.00	2.80
24	8.70	4.40	1.60	7.40	—
28	9.50	5.20	2.40	8.20	—
30	9.90	5.60	2.80	8.60	—
32	10.30	6.00	3.20	9.00	—
34	10.70	6.40	3.60	9.40	—
36	11.10	6.80	4.00	9.40	—
40	11.90	7.60	4.80	10.60	—
42	12.30	8.00	5.20	11.00	—
44	12.70	8.40	5.60	11.40	—
46	13.10	8.80	6.00	11.80	—
50	13.90	9.60	6.80	12.60	—
60	15.90	11.60	8.80	14.60	—
70	17.90	13.60	10.80	16.60	—
80	19.90	15.60	12.80	18.60	—
90	21.90	17.60	14.80	20.60	—
100	23.90	19.60	16.80	22.60	—

Mated height/dimension	F
1.5mm	1.50
2.0mm	1.92
2.5mm, 3.0mm	2.42
3.5mm	2.92
4.0mm	3.42

Header (Mated height: 1.5mm, 2.0mm, 2.5mm, 3.0mm, 3.5mm and 4.0mm)

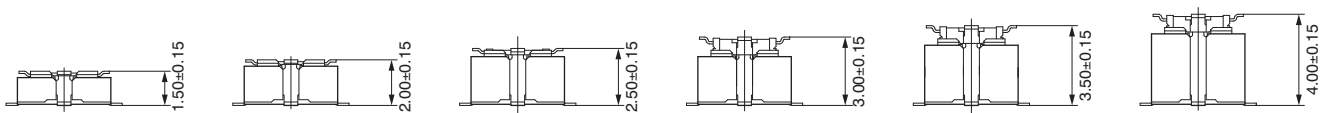


Dimension table (mm)

Number of pins/ dimension	A	B	C	D	E
10	3.10	1.60	—	1.94	1.64
12	3.50	2.00	—	2.34	2.04
20	5.10	3.60	—	3.94	2.80
22	5.50	4.00	—	4.34	3.20
24	5.90	4.40	1.60	4.74	—
28	6.70	5.20	2.40	5.54	—
30	7.10	5.60	2.80	5.94	—
32	7.50	6.00	3.20	6.34	—
34	7.90	6.40	3.60	6.74	—
36	8.30	6.80	4.00	7.14	—
40	9.10	7.60	4.80	7.94	—
42	9.50	8.00	5.20	8.34	—
44	9.90	8.40	5.60	8.74	—
46	10.30	8.80	6.00	9.14	—
50	11.10	9.60	6.80	9.94	—
60	13.10	11.60	8.80	11.94	—
70	15.10	13.60	10.80	13.94	—
80	17.10	15.60	12.80	15.94	—
90	19.10	17.60	14.80	17.94	—
100	21.10	19.60	16.80	19.94	—

Mated height/dimension	F	G
1.5mm, 2.0mm, 2.5mm	1.31	1.20
3.0mm, 3.5mm, 4.0mm	2.26	1.26

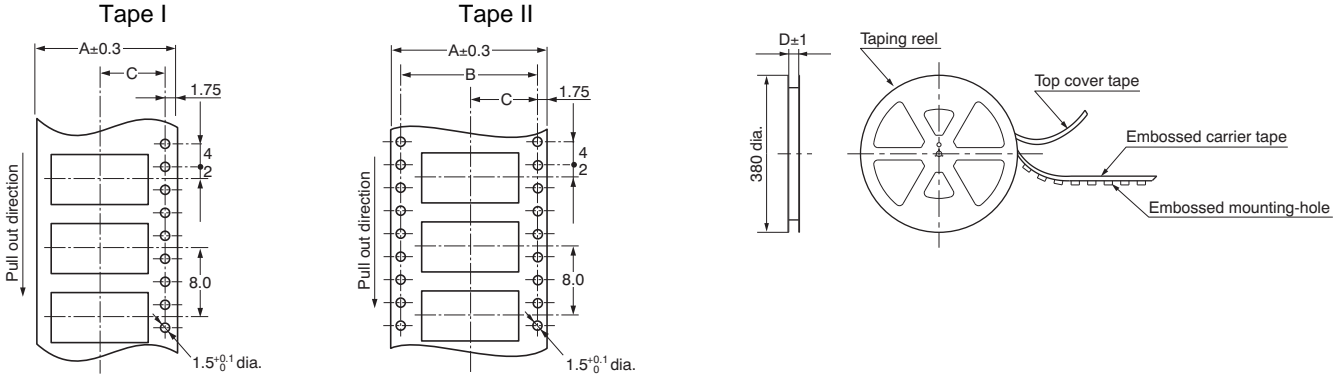
Socket and Header are mated.



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.)

• Plastic reel dimensions (Conforming to EIAJ ET-7200B)



Dimension table (mm)

1. Without Soldering Terminals

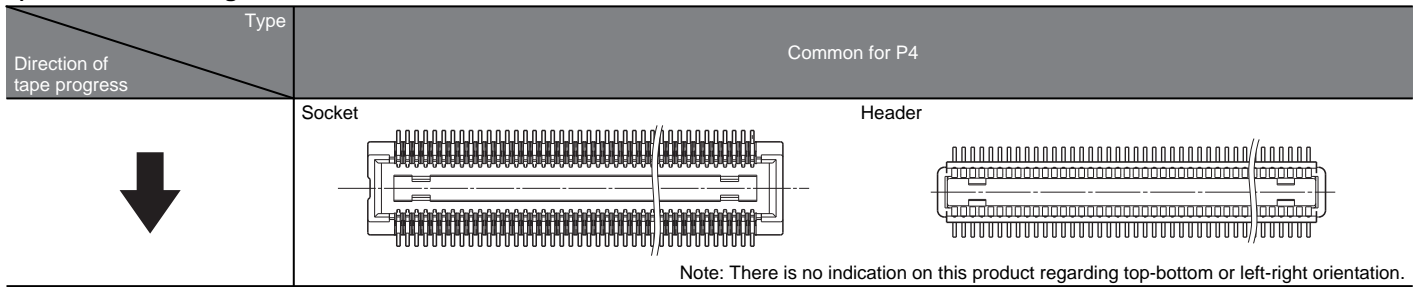
Mated height	Number of pins		Type of taping	A	B	C	D	Quantity per reel
	Socket	Header						
Common for socket and header: 1.5 mm, 2.0 mm, 2.5 mm and 3.0 mm Header: 3.5mm and 4.0 mm	Max. 18	Max. 18	Tape I	16.0	—	7.5	17.4	3,000
	20 to 70	20 to 70	Tape I	24.0	—	11.5	25.4	3,000
	80 to 100	80 to 100	Tape II	32.0	28.4	14.2	33.4	3,000
	80 to 100	—	Tape II	44.0	40.4	20.2	45.4	3,000
Socket: 3.5mm and 4.0 mm	20 to 40		Tape I	24.0	—	11.5	25.4	2,000

2. With Soldering Terminals

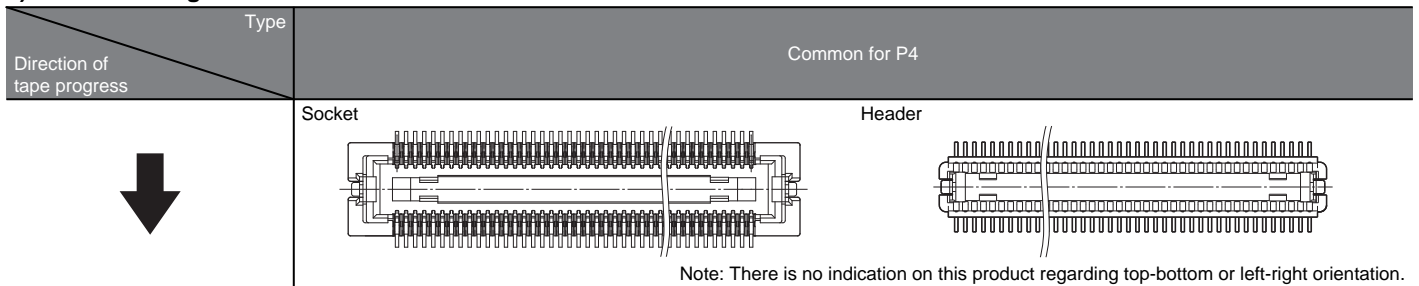
Mated height	Number of pins		Type of taping	A	B	C	D	Quantity per reel
	Socket	Header						
Common for socket and header: 1.5 mm, 2.0 mm, 2.5 mm and 3.0 mm Header: 3.5mm and 4.0 mm	Max. 18	Max. 18	Tape I	16.0	—	7.5	17.4	3,000
	20 to 60	20 to 70	Tape I	24.0	—	11.5	25.4	3,000
	70 to 90	80 to 100	Tape II	32.0	28.4	14.2	33.4	3,000
	100	—	Tape II	44.0	40.4	20.2	45.4	3,000
Socket: 3.5mm and 4.0 mm	20 to 60		Tape I	24.0	—	11.5	25.4	2,000
	70 to 90		Tape II	32.0	28.4	14.2	33.4	2,000

3. Connector orientation with respect to direction of progress of embossed tape

1) Without soldering terminals



2) With soldering terminals



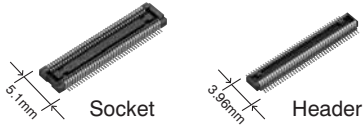
Products marked  are discontinued as of September 30, 2013


Panasonic
ideas for life

For board-to-board | For board-to-FPC

**Connectors for
inspection usage
(0.4mm pitch)**

P4 Series



 Products to be discontinued.

FEATURES

1. 3,000 mating and unmating cycles
2. Same external dimensions and foot patterns as standard type.
3. Improved mating

Insertion and removal easy due to a reduction in mating retention force. This is made possible by a simple locking structure design.















Note: Mating retention force cannot be warranted.

APPLICATIONS

Ideal for module unit inspection and equipment assembly inspection

TABLE OF PRODUCT TYPES

☆: Available for sale

Product name	Number of pins																							
	10	12	14	16	20	22	24	26	28	30	34	36	40	42	44	46	50	54	60	64	70	80	90	100
P4 for inspection without soldering terminals			☆		☆	☆	☆	☆		☆	☆	☆		☆	☆		☆	☆	☆	☆	☆	☆		☆
P4 for inspection with soldering terminals	☆	☆			☆																			

- Notes: 1. You can use with each mated height in common.
 2. Please inquire about numbers of pins other than those shown above.
 3. Please inquire with us regarding availability.
 4. Please keep the minimum order quantities no less than 50 pieces per lot.
 5. Please inquire if further information is needed.

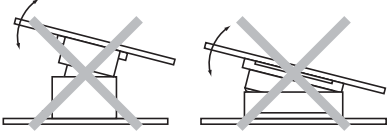
PRODUCT TYPES

Specifications			Part No.	Specifications			Part No.
Socket	With soldering terminals	Without positioning bosses	AXK7E**26G	Header	With soldering terminals	Without positioning bosses	AXK8E**26WG
	Without soldering terminals	Without positioning bosses	AXK7E**46G		Without soldering terminals	Without positioning bosses	AXK8E**46WG

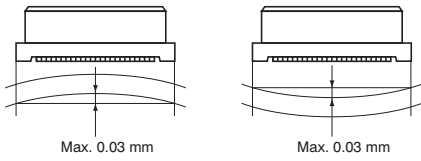
- Notes: 1. When placing an order, substitute the "*" (asterisk) in the above part number with the number of pins for the specific connector.
 2. The above part numbers are for connectors without positioning bosses, which are standard. When ordering connectors with positioning bosses, please contact our sales office.

NOTES

1. As shown below, excess force during insertion may result in damage to the connector or removal of the solder. Also, to prevent connector damage please confirm the correct position before mating connectors.



2. Keep the PC board warp no more than 0.03 mm in relation to the overall length of the connector.



3. PC Boards and Recommended Metal Mask Patterns

Connectors are mounted with high density, intervals of 0.35 mm, 0.4 mm or 0.5 mm.

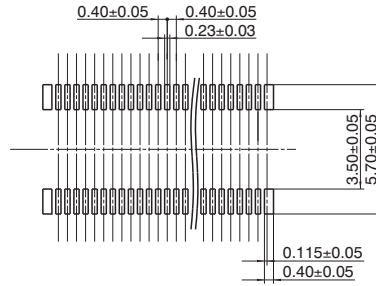
In order to reduce solder bridges and other issues make sure the proper level of solder is used.

The figures to the right are recommended metal mask patterns. Please use them as a reference.

1) Without soldering terminals

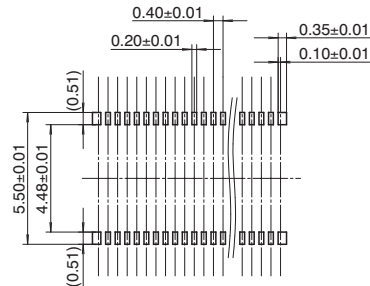
Socket

Recommended PC board pattern (TOP VIEW)



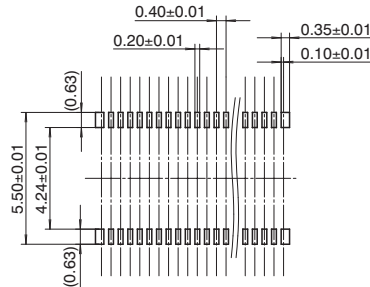
Recommended metal mask pattern

Metal mask thickness: Here, 150 μm
(Opening area ratio: 40%)



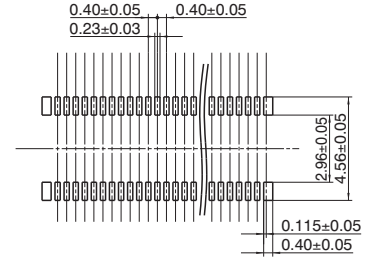
Recommended metal mask pattern

Metal mask thickness: Here, 120 μm
(Opening area ratio: 50%)



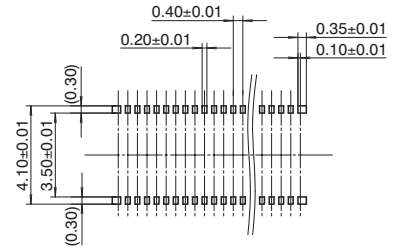
Header

Recommended PC board pattern (TOP VIEW)



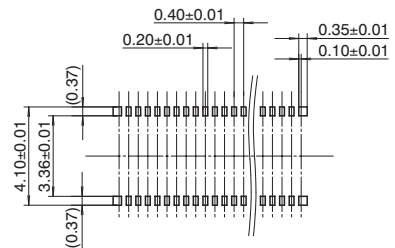
Recommended metal mask pattern

Metal mask thickness: Here, 150 μm
(Opening area ratio: 32%)



Recommended metal mask pattern

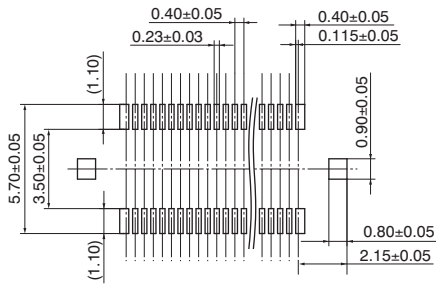
Metal mask thickness: Here, 120 μm
(Opening area ratio: 40%)



2) With soldering terminals

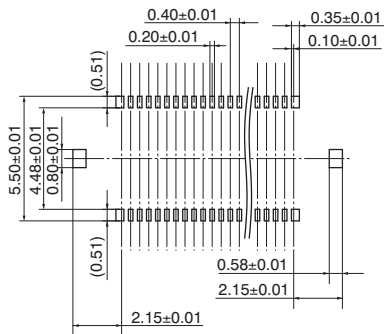
Socket

Recommended PC board pattern (TOP VIEW)



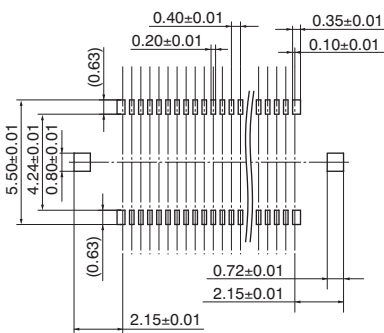
Recommended metal mask pattern

Metal mask thickness: Here, 150 μm
(Terminal portion opening area ratio: 40%)
(Metal portion opening area ratio: 65%)



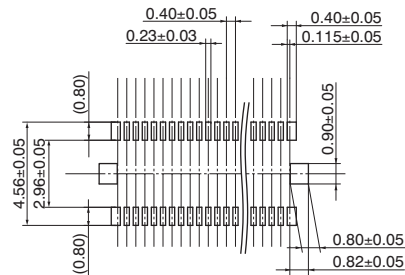
Recommended metal mask pattern

Metal mask thickness: Here, 120 μm
(Terminal portion opening area ratio: 50%)
(Metal portion opening area ratio: 80%)



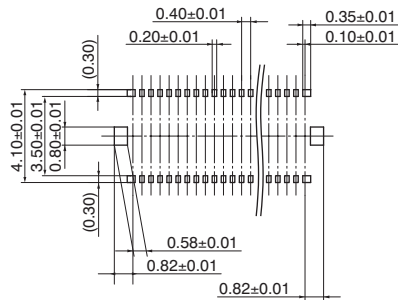
Header

Recommended PC board pattern (TOP VIEW)



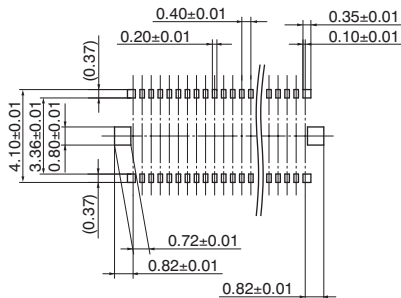
Recommended metal mask pattern

Metal mask thickness: Here, 150 μm
(Terminal portion opening area ratio: 32%)
(Metal portion opening area ratio: 65%)



Recommended metal mask pattern

Metal mask thickness: Here, 120 μm
(Terminal portion opening area ratio: 40%)
(Metal portion opening area ratio: 80%)



For Cautions for Use, see [Connector Technical Information](#). For other details, please verify with the product specification sheets.