Panasonic

ideas for life



Without retention fitting





With retention fitting





Socket

Header

Compliance with RoHS Directive

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

TDUGH CONTRET construction for high contact reliability.

1) Contacts are highly resistant to shock caused by dropping and employ our original bellows contact construction.

Contacts are formed by bending a thin metal sheet, which provides the contact parts with adequate spring characteristics ensuring greater resistance to prying forces and drop impacts.



2) V notch construction used for excellent resistance against foreign matters.

V-notch

By making contact with the edges and thus increasing the contact pressure, this product can eliminate flux and other foreign matters more effectively than conventional products, which also helps to prevent foreign matters from obstructing the contact.

[Cross Section of Contacts]

<Product without a notch> <V-notched product>
Cross section of the socket side contact

Cross section of the header side post





Patented (Japan, Korea, and Taiwan)

NARROW-PITCH CONNECTORS FOR BOARD-TO-BOARD AND BOARD-TO-FPC CONNECTION

3) Use of Ni barrier construction is standard. Highly effective against solder creeping.

Ni barrier

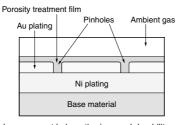
The exposed nickel-plated portion of the gold-plated contact prevents solder creep despite the ultra low profile of the contact.

[Contact] Header side contact Ni barrier Cu Ni Au Exposed Ni portion Cross section of socket side contact Note: Simultaneous molding of the header contact achieves a construction that prevents solder creep.

4) Porosity treatment applied for improved resistance against corrosion.

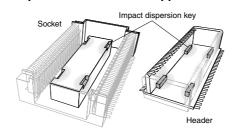
Porosity treatment

This treatment consists in coating the surface with a very thin film to seal pinholes in the gold plating. We have developed this porosity treatment technology, which ensures contact reliability for thin gold plating comparable to that of thick gold plating.



- Improvement in insertion/removal durability
- Improvement in resistance to corrosion
- Improvement in contact reliability for digital signals

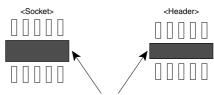
3. It is constructed with impact dispersion keys inside the body to disperse shocks when dropped.



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.

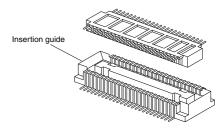
Note: The following numbers of contacts are not supported due to suction surface factors.

- NARROW PITCH (0.4mm) CONNECTORS P4 SERIES
- Without retention fitting: 18 contacts or less
- With retention fitting: 22 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.



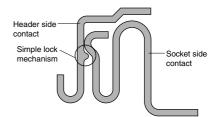
Connector bottom: Create any thru-hole and pattern wiring.

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



3) The connector has a simple lock mechanism.

Superior mated operation with click feel to indicate that mated is complete.



5. Design makes efficient mounting.

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

6. Connectors for inspection availableConnectors for inspection are available that are ideal for modular unit inspection and inspection in device assembly processes.

APPLICATIONS

Compact portable devices "Cellular phones, DVC, Digital cameras, etc"

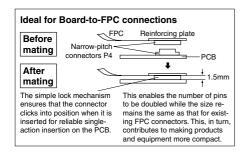


TABLE OF PRODUCT TYPES

P4 (0.4 mm pitch): Without retention fitting





Socket

Header

☆: Available for sale

A. Available for sale								
	Mated height		2.0mm	2.5mm	3.0mm	3.5mm	4.0mm	
	14	☆	☆	☆				
	16	☆						
	20	☆	☆	☆	☆			
	22	☆						
	24	☆	☆	☆	☆		☆	
	26	☆	☆					
	28	☆						
	30	☆	☆	☆	☆	☆		
acts	34	☆	☆	☆				
Juta	36	☆						
8	38		☆					
Number of contacts	40	☆	☆	☆	☆	☆		
å	42	☆						
Ž	44	☆		☆				
	50	☆	☆	☆	☆			
	54	☆	☆					
	60	☆	☆	☆				
	64	☆						
	70	☆	☆	☆				
	80	☆	☆	☆				
	90	☆		☆				
	100	☆	☆	☆				

P4 (0.4 mm pitch): With retention fitting





Socket

Header

☆: Available for sale

	ted ght	1.5mm	2.0mm	2.5mm	3.0mm	3.5mm	4.0mm
	10	☆					
	12	☆					
	20	☆	☆	☆	☆	☆	
	22	☆					
	24	☆	☆				
	28	☆		☆			
	30	☆				☆	
Number of contacts	32			☆			
ont	34	☆					☆
Š	36	☆			☆		
er o	40	☆	☆	☆	☆	☆	
æ	42						☆
뢷	44	☆					
	46	☆					
	50	☆	☆	☆	☆	☆	☆
	60	☆	☆	☆	☆	☆	
	70					☆	
	80	☆	☆	☆	☆	☆	☆
	90	☆		☆	☆		
	100	☆					

Note: Please contact us regarding numbers of contacts other than those given above.

ORDERING INFORMATION

AXA	(G
7: Narrow Pitch Connector P4 (0.4 mm pitch) Socket 8: Narrow Pitch Connector P4 (0.4 mm pitch) Header					
Number of contacts (2 digits)					
Mated height <socket> 1: For mated height 1.5 mm 2: For mated height 2.0 mm 3: For mated height 2.5 mm and 3.0 mm 4: For mated height 3.5 mm 5: For mated height 4.0 mm <header> 1: For mated height 1.5 mm, 2.0 mm and 2.5 mm</header></socket>					
2: For mated height 3.0 mm, 3.5 mm and 4.0 mm Functions 1: With retention fitting, with positioning bosses 2: With retention fitting, without positioning bosses 3: Without retention fitting, with positioning bosses 4: Without retention fitting, without positioning bosses					
Surface treatment (Contact portion / Terminal portion) <socket> 7: Ni plating on base, Au plating on surface (for Ni barrier p <header> 5: Ni plating on base, Au plating on surface</header></socket>	product avai	ilable)			
Other specifications <header> W: V notch and post edge horseshoe bend type product</header>					
Packing G: 3,000 pieces embossed tape and plastic reel × 2*					

 $[\]ast$ Only a socket of mated height 3.5 mm and 4.0 mm: 2,000 pieces embossed tape and plastic reel \times 2.

PRODUCT TYPES

1. Without retention fitting * TOUGH CONTRET

	Number	Part n	umber	Packing			
Mated height	Number of contacts	Socket	Header	Inner certen	Outer carten		
	Contacts	TDUGH CONTRCT	TDUGH CONTRCT	Inner carton	Outer carton		
	14	AXK714147G	AXK814145WG				
	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				
1.5 mm	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				
	14	AXK714247G	AXK814145WG				
	20	AXK720247G	AXK820145WG				
	24	AXK724247G	AXK824145WG				
	26	AXK726247G	AXK826145WG				
	30	AXK720247G AXK730247G	AXK830145WG	3,000 pieces	6,000 pieces		
	34	AXK730247G AXK734247G	AXK834145WG	_			
2.0 mm	38		AXK838145WG				
2.0 111111	40	AXK738247G AXK740247G	AXK840145WG				
-	50	AXK740247G AXK750247G	AXK850145WG				
-							
	60	AXK760247G	AXK860145WG				
	70	AXK770247G	AXK870145WG				
	80	AXK780247G	AXK880145WG				
	100	AXK700247G	AXK800145WG				
	14	AXK714347G	AXK814145WG				
	20	AXK720347G	AXK820145WG				
	24	AXK724347G	AXK824145WG				
	30	AXK730347G	AXK830145WG				
	34	AXK734347G	AXK834145WG				
0.5	40	AXK740347G	AXK840145WG				
2.5 mm	44	AXK744347G	AXK844145WG				
	50	AXK750347G	AXK850145WG				
	60	AXK760347G	AXK860145WG				
	70	AXK770347G	AXK870145WG				
	80	AXK780347G	AXK880145WG				
	90	AXK790347G	AXK890145WG				
	100	AXK700347G	AXK800145WG				
	24	AXK724347G	AXK824245WG				
3.0 mm	30	AXK730347G	AXK830245WG				
	50	AXK750347G	AXK850245WG				
3.5 mm	30	AXK730447G	AXK830245WG	Socket: 2,000 pieces	Socket: 4,000 pied		
3.0 11111	40	AXK740447G	AXK840245WG	Header: 3,000 pieces	Header: 6,000 pie		
4.0 mm	24	AXK724547G	AXK824245WG	Socket: 2,000 pieces Header: 3,000 pieces	Socket: 4,000 pied Header: 6,000 pied		

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 19.) Samples: Small lot orders are possible.

- 2. The standard type comes without positioning bosses. Connectors with positioning bosses are available on-demand production. For this type of connector, 8th digit of the part number changes from 4 to 3. e.g. Mated height 1.5 mm and 20 contacts for socket without retention fitting: AXK720137G

 3. "W" indicates a product with V notch and post edge horseshoe bend. ("Post edge horseshoe bend" refers to a construction that makes it difficult for the header post
- edge to deform when the connector is inserted and removed at an angle.)
- 4. Previous V notch types ("Y" in 10 th place of the header part number) and the current V notch + post edge horseshoe bend types ("W" in the 10 th place of the
- header part number) are compatible for mating.

 5. Connectors of different mated height (3.0 mm, 3.5 mm and 4.0 mm) and different number of contacts are available on-demand production only. Please contact us for more details.

2. With retention fitting TOUGH CONTRCT

	Number of		number	Pac	king
Mated height	contacts	Socket	Header	Inner carton	Outer carton
		TDUGH CDNTRCT	TDUGH CDNTRCT		
	10	AXK710127G	AXK810125WG		
	12	AXK712127G	AXK812125WG		
	20	AXK720127G	AXK820125WG		
	22	AXK722127G	AXK822125WG		
	24	AXK724127G	AXK824125WG		
	28	AXK728127G	AXK828125WG		
	30	AXK730127G	AXK830125WG		
	34	AXK734127G	AXK834125WG		
1.5 mm	36	AXK736127G	AXK836125WG		
	40	AXK740127G	AXK840125WG		
	44	AXK744127G	AXK844125WG		
	46	AXK746127G	AXK846125WG		
	50	AXK750127G	AXK850125WG		
	60	AXK760127G	AXK860125WG		
	80	AXK780127G	AXK880125WG		6,000 pieces
	90	AXK790127G	AXK890125WG		
	100	AXK700127G	AXK800125WG		
	20	AXK720227G	AXK820125WG		
	24	AXK724227G	AXK824125WG	0.000	
	40	AXK740227G	AXK840125WG	3,000 pieces	
2.0 mm	50	AXK750227G	AXK850125WG	1	
	60	AXK760227G	AXK860125WG		
	80	AXK780227G	AXK880125WG	1	
	20	AXK720327G	AXK820125WG		
	28	AXK728327G	AXK828125WG		
	32	AXK732327G	AXK832125WG	1	
	40	AXK740327G	AXK840125WG		
2.5 mm	50	AXK750327G	AXK850125WG		
	60	AXK760327G	AXK860125WG		
	80	AXK780327G	AXK880125WG		
	90	AXK790327G	AXK890125WG		
	20	AXK720327G	AXK820225WG		
	36	AXK736327G	AXK836225WG		
	40	AXK740327G	AXK840225WG		
3.0 mm	50	AXK750327G	AXK850225WG		
	60	AXK760327G	AXK860225WG		
	80	AXK780327G	AXK880225WG		
	90	AXK790327G	AXK890225WG		
	20	AXK720427G	AXK820225WG		
	30	AXK730427G	AXK830225WG		
	40	AXK740427G	AXK840225WG		
3.5 mm	50	AXK740427G	AXK850225WG	Socket: 2,000 pieces	Socket: 4,000 piec
5.5 11111	60	AXK750427G AXK760427G	AXK860225WG	Header: 3,000 pieces	Header: 6,000 pied
	70	AXK770427G	AXK870225WG		
	80	AXK770427G AXK780427G	AXK880225WG		
	34	AXK734527G	AXK834225WG	0 1 1 0 222 /	0 1 1 1 2 2 2 2 2
4.0 mm	42	AXK742527G	AXK842225WG	Socket: 2,000 pieces Header: 3,000 pieces	Socket: 4,000 piec
	50	AXK750527G	AXK850225WG	neader. 3,000 pieces	Header: 6,000 pieces

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 19.)

Samples: Small lot orders are possible.

^{2.} The standard type comes without positioning bosses.

Connectors with positioning bosses are available on-demand production. For this type of connector, 8th digit of the part number changes from 2 to 1. e.g. Mated height 1.5 mm and 10 contacts for socket with retention fitting: AXK710117G

^{3. &}quot;W" indicates a product with V notch and post edge horseshoe bend. ("Post edge horseshoe bend" refers to a construction that makes it difficult for the header post edge to deform when the connector is inserted and removed at an angle.)

^{4.} Previous V notch types ("Y" in 10 th place of the header part number) and the current V notch + post edge horseshoe bend types ("W" in the 10 th place of the header part number) are compatible for mating.

^{5.} Different number of contacts are available on-demand production only. Please contact us for more details.

SPECIFICATIONS

1. Characteristics

	Item	Specifications	Conditions
	Rated current	0.3A/contact (Max. 5 A at total contacts)	
	Rated voltage	60V AC/DC	
Electrical	Breakdown voltage	150V AC for 1 min.	Detection current: 1mA
characteristics	Insulation resistance	Min. 1,000M Ω (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.
	Composite insertion force	Max. 0.981N {100gf}/contacts × contacts (initial)	
Mechanical characteristics	Composite removal force	Min. 0.0588N {6gf}/contacts × contacts (Mated height 1.5 mm, without removal and retention fitting) Min. 0.118N {12gf}/contacts × contacts (Mated height 1.5 mm, except without removal and retention fitting)	
	Post holding force	Min. 0.981N {100gf}/contacts	Measures the maximum load in the post axial direction until removal
	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
Environmental	Thermal shock resistance (header and socket mated)	5 cycles, insulation resistance min. 100M Ω , contact resistance max. 70m Ω	Sequence 1. −55-⅓°C, 30 minutes 2. ~, Max. 5 minutes 3. 85 ⁺ ⅓°C, 30 minutes 4. ~, Max. 5 minutes
characteristics	Humidity resistance (header and socket mated)	120 hours, insulation resistance min. 100M Ω , contact resistance max. 70m Ω	Bath temperature 40±2°C, humidity 90 to 95% R.H.
	Saltwater spray resistance (header and socket mated)	24 hours, insulation resistance min. 100M Ω , contact resistance max. 70m Ω	Bath temperature 35±2°C, saltwater concentration 5±1%
	H ₂ S resistance (header and socket mated)	48 hours, contact resistance max. $70m\Omega$	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 contacts; Socket: 0.04g Header: 0.02g	

2. Material and surface treatment

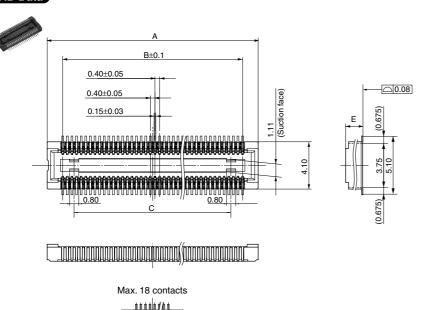
Part name	Material	Surface treatment
Molded portion	LCP resin (UL94V-0)	_
Contact and Post	Copper alloy	Contact portion: Ni plating on base, Au plating on surface Terminal portion: Ni plating on base, Au plating on surface (Except for thick of terminal) However, upper terminal of Ni barrier production: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

DIMENSIONS (Unit: mm)

The CAD data of the products with a CAD Data mark can be downloaded from: http://www.mew.co.jp/ac/e

1. Without Retention Fitting

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



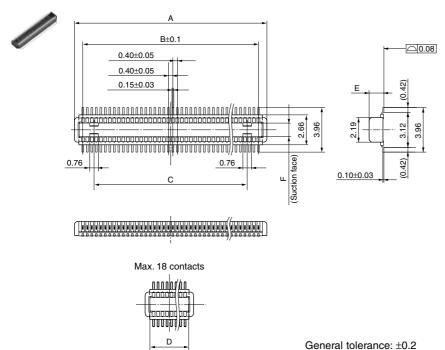
Dimension table (mm)

Number of contacts/ dimension	А	В	С	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	Е
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)

CAD Data

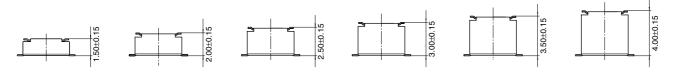


Dimension table (mm)

Number of contacts/ dimension	Α		С	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

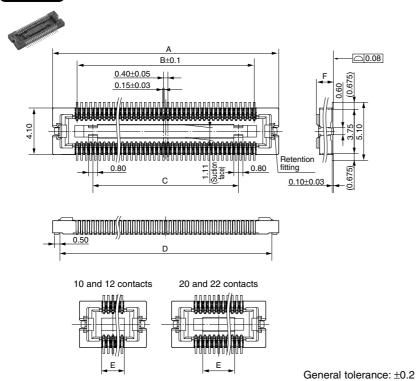


General tolerance: ±0.2

2. With Retention Fitting

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

CAD Data



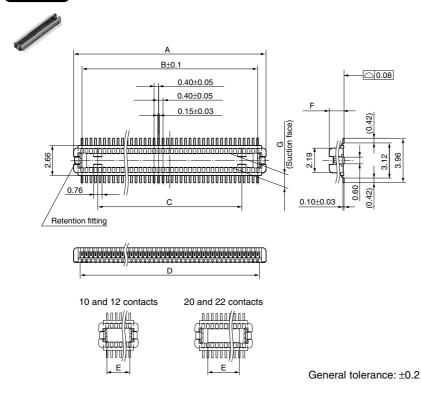
Dimension table (mm)

Number of contacts/ dimension	А	В	С	D	Е
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)

CAD Data

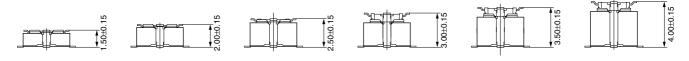


Dimension table (mm)

Number of contacts/ dimension			С	D	Е
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 neight/dimension	F	G
1.5mm, 2.0mm, 2.5mm	1.31	1.20
3.0mm, 3.5mm, 4.0mm	2.26	1.26

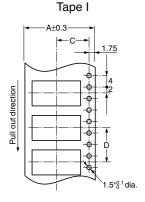
Socket and Header are mated.

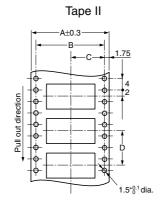


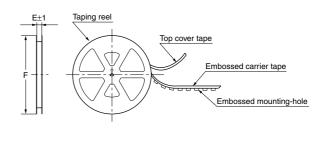
EMBOSSED TAPE DIMENSIONS (unit: mm, Common for respective contact type, socket and header)

- Tape dimensions (Conforming to JIS C 0806-1990. However, some tapes have mounting hole pitches that do
- Reel dimensions (Conforming to EIAJ ET-7200B)

not comply with the standard.)







Dimension table (mm)

1. Without Retention Fitting

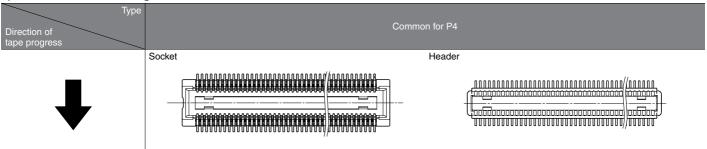
Mated height	Number of contacts	Type of taping	А	В	С	D	Е	F	Quantity per reel
Common for socket and header: 1.5 mm, 2.0 mm and 2.5 mm	Max. 18	Tape I	16.0	_	7.5	8.0	17.4	φ380	3,000
	20 to 70	Tape I	24.0	_	11.5	8.0	25.4	φ380	3,000
	80 to 100	Tape II	32.0	28.4	14.2	8.0	33.4	φ380	3,000

2. With Retention Fitting

Mated height	Number of contacts		Type of tening	۸	В	С	D	Е	F	Quantity per reel
Mateu Height	Socket	Header	Type of taping	A	D			_		Qualitity per reer
	Max. 18	Max. 18	Tape I	16.0	_	7.5	8.0	17.4	φ380	3,000
Common for socket and header: 1.5 mm, 2.0 mm, 2.5 mm, and 3.0 mm	20 to 60	20 to 70	Tape I	24.0	_	11.5	8.0	25.4	φ380	3,000
Header: 3.5mm and 4.0 mm	70 to 90	80 to 100	Tape II	32.0	28.4	14.2	8.0	33.4	φ380	3,000
	100	_	Tape II	44.0	40.4	20.2	8.0	45.4	φ380	3,000
Socket: 3.5mm and 4.0 mm	Max	c. 18	Tape I	16.0	_	7.5	8.0	17.4	φ380	2,000
	20 t	o 60	Tape I	24.0	_	11.5	8.0	25.4	φ380	2,000
	70 t	o 90	Tape II	32.0	28.4	14.2	8.0	33.4	φ380	2,000
	10	00	Tape II	44.0	40.4	20.2	8.0	45.4	φ380	2,000

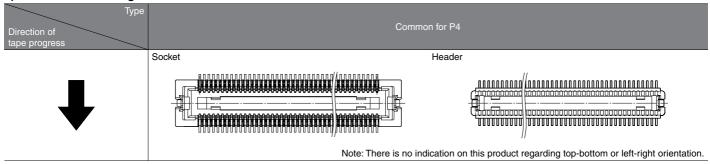
3. Connector orientation with respect to direction of progress of embossed tape

1) Without retention fitting



Note: There is no indication on this product regarding top-bottom or left-right orientation.

2) With retention fitting



Panasonic ideas for life

CONNECTOR FOR INSPECTION USAGE APPLICATIONS WITH 3,000 INSERTION AND REMOVAL TIMES

NARROW PITCH CONNECTOR P4 (0.4 mm PITCHES) FOR INSPECTION USAGE



Compliance with RoHS Directive

FEATURES

1. 3,000 insertion and removals (when as recommended)

From the 50 insertion and removals of standard type, up to 3,000 insertion and removals (with recommended insertion and removal) are possible for use in inspection.

Ideal for inspection of module units and inspection during the device assembly process

2. Same external dimensions and foot pattern as standard type.

Since shape is the same as standard type, inspection is possible without interfering with devices in the vicinity of standard connectors.

3. Improved mating

Insertion and removal have become easier due to a reduction in the mating retention force required by the simple locking structure and also in the amount of force needed for insertion and removal. (We cannot warrant anything regarding mating retention.)

TABLE OF PRODUT TYPES

☆: Available for sale

Proo nai	duct me	P4 for inspection	P4 for inspection with retention fitting
	10		☆
	12		☆
	14	☆	
	16	☆	
	20	☆	☆
	22	☆	☆
	24	☆	☆
	26	☆	
ts	28	☆	☆
tac	30	☆	☆
con	34	☆	☆
ð	36	☆	
ber	40	☆	☆
Number of contacts	42	☆	
Z	44	☆	☆
	46		☆
	50	☆	☆
	54	☆	
	60	☆	☆
	70	☆	
	80	☆	☆
	90	☆	☆
	100	☆	☆
Notoc:			

Notes:

- You can use with each mated height in common.
- 2. Please inquire about numbers of contacts other than those given above.
- 3. Please inquire with us regarding delivery times.
- 4. Please keep the minimum unit for ordering no less than 50 pieces per lot.
- 5. Please inquire for further information.

PRODUCT TYPES

Specifications			Part No.	Specifications			Part No.
	With retention	With positioning bosses	AXK7E**16G		With retention	With positioning bosses	AXK8E**16WG
fitting	Without positioning bosses	AXK7E**26G	Header	fitting	Without positioning bosses	AXK8E**26WG	
Socker	Socket Without	With positioning bosses	AXK7E**36G	пеацеі	Without	With positioning bosses	AXK8E**36WG
retention fitting	Without positioning bosses	AXK7E**46G		retention fitting	Without positioning bosses	AXK8E**46WG	

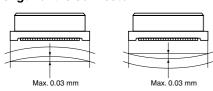
Note: When placing an order, substitute the "*" (asterisk) in the above part number with the number of contacts for the required connector.

NOTES

1. As shown below, excess force during insertion may result in damage to the connector or removal of the solder. Please be careful. 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, with a pitch interval of 0.4 to 0.5 mm.

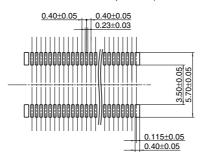
In order to reduce solder bridge and other issues make sure the proper levels of solder are used.

The figures to the right are recommended metal mask patterns.

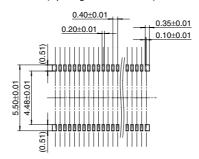
Please use them as a reference.

1) Without retention fitting Socket

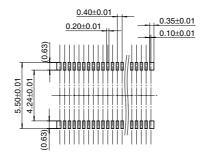
Recommended PC board pattern (TOP VIEW)



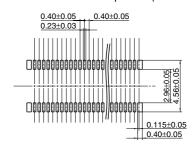
Recommended metal mask pattern Metal mask thickness: Here, 150 μm (Opening area ratio: 40 %)



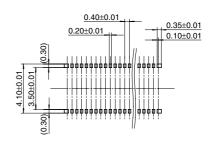
Recommended metal mask pattern Metal mask thickness: Here, 120 μm (Opening area ratio: 50 %)



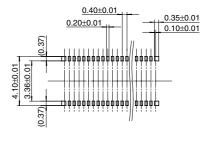
Header Recommended PC board pattern (TOP VIEW)



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

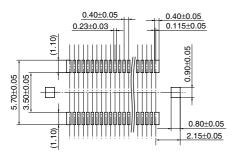


Recommended metal mask pattern Metal mask thickness: Here, 120 μm (Opening area ratio: 40 %)

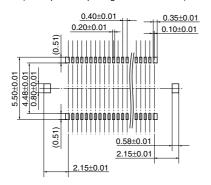


2) With retention fitting Socket

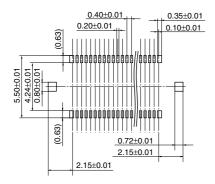
Recommended PC board pattern (TOP VIEW)



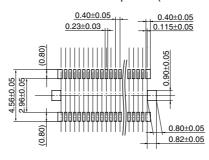
Recommended metal mask pattern Metal mask thickness: Here, 150 μm (Terminal portion opening area ratio: 40 %) (Metal portion opening area ratio: 65 %)



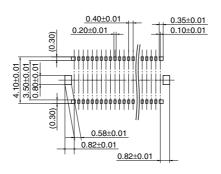
Recommended metal mask pattern Metal mask thickness: Here, 120 μ m (Terminal portion opening area ratio: 50 %) (Metal portion opening area ratio: 80 %)



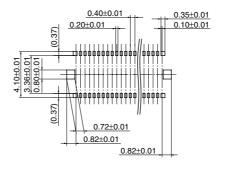
Header Recommended PC board pattern (TOP VIEW)



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 other details, please verify with the product specification sheets.