MIPTEC

Panasonic ideas for life



· Without soldering terminal





ocket Heade

With soldering terminal





Socket Header

Compliance with RoHS Directive

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

NARROW PITCH (0.4mm) CONNECTORS P4 SERIES

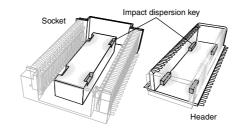
FEATURES

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

2. Strong resistance to adverse environments! Utilizes

TDUEH CONTRET construction for high contact reliability.
(See Page 6 for details of the structure)

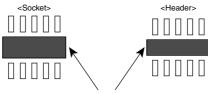
3. It is constructed with impact dispersion keys inside the body to disperse shocks when dropped.



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.

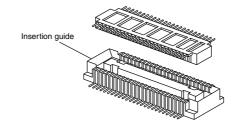
Note: The following numbers of contacts are not supported due to suction surface factors.

- Without soldering terminal:
 18 contacts or less
- With soldering terminal:
 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.



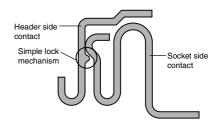
Connector bottom: Create any thru-hole and pattern wiring.

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.



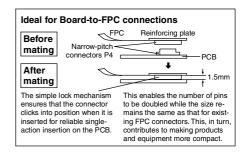
5. Design makes efficient mounting.

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 available Connectors 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"



ORDERING INFORMATION

AXK [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 2: For mated height 3.0 mm, 3.5 mm and 4.0 mm</header></socket>	
Functions 2: With soldering terminal, without positioning bosses 4: Without soldering terminal, without positioning bosses	
Surface treatment (Contact portion / Terminal portion) <socket> 7: Ni plating on base, Au plating on surface (for Ni barrier available) <header> 5: Ni plating on base, Au plating on surface</header></socket>	
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*	

Notes: 1. Only a socket of mated height 3.5 mm and 4.0 mm: 2,000 pieces embossed tape and plastic reel × 2.

2. Please note that the models with a soldering terminal (8th digit of part number is "2") and those without a soldering terminal (8th digit of part number is "4") are shaped differently and are not compatible.

PRODUCT TYPES

1. Without soldering terminal ** TOUGH CONTACT

Without Solut	ering terminal	TOUGH LUNTHLT			
	Number of		umber	Pac	king
Mated height	contacts	Socket	Header	Inner carton	Outer carton
		TOUGH CONTRCT	TDUGH CDNTACT	minor darton	Gator 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	1	
	26	AXK726247G	AXK826145WG		
	30	AXK730247G	AXK830145WG	3,000 pieces	6,000 pieces
	34	AXK734247G	AXK834145WG		э,эээ рэээээ
2.0 mm	38	AXK738247G	AXK838145WG		
	40	AXK740247G	AXK840145WG		
	50	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	AXK736347G	AXK834145WG		
	40	AXK740347G	AXK840145WG		
2.5 mm	44	AXK740347G AXK744347G	AXK844145WG		
2.5 11111	50	AXK750347G	AXK850145WG		
	60	AXK750347G 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		
	80	AXK780347G	AXK880245WG		
3.5 mm	30	AXK730447G	AXK830245WG	Socket: 2,000 pieces Header: 3,000 pieces	Socket: 4,000 piec
	40	AXK740447G	AXK840245WG		Header: 6,000 pied
4.0 mm	24	AXK724547G	AXK824245WG	Socket: 2,000 pieces Header: 3,000 pieces	Socket: 4,000 piece Header: 6,000 piece

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 150.)
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. &}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.

FPC connectors

2. With soldering terminal TOUGH CONTRET

	Number of		number	Pad	king
Mated height	contacts	Socket	Socket Header		Outer carton
	23	TOUGH CONTACT	TOUGH CONTRCT	Inner carton	Odler Carlori
	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		
	90	AXK790127G	AXK890125WG		
	100	AXK700127G	AXK800125WG		
	20	AXK720227G	AXK820125WG		
	24	AXK724227G	AXK824125WG		
2.0 mm	40	AXK740227G	AXK840125WG	3,000 pieces	6,000 pieces
2.0 11/111	50	AXK750227G	AXK850125WG	5,000 pieces	o,ooo pieces
	60	AXK760227G	AXK860125WG		
	80	AXK780227G	AXK880125WG		
	12	AXK712327G	AXK812125WG		
	20	AXK720327G	AXK820125WG		
	28	AXK728327G	AXK828125WG		
	32	AXK732327G	AXK832125WG		
2.5 mm	40	AXK740327G	AXK840125WG		
	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		
2.2	60	AXK760327G	AXK860225WG	_	
	70	AXK770327G	AXK870225WG		
	80	AXK780327G	AXK880225WG	_	
	90	AXK790327G	AXK890225WG		
	20	AXK720427G	AXK820225WG	_	
	30	AXK730427G	AXK830225WG		
	40	AXK740427G	AXK840225WG	Socket: 2,000 pieces	Socket: 4,000 pie
3.5 mm	50	AXK750427G	AXK850225WG	Header: 3,000 pieces	Header: 6,000 pie
	60	AXK760427G	AXK860225WG		1,200 pic
	70	AXK770427G	AXK870225WG		
	80	AXK780427G	AXK880225WG		
	34	AXK734527G	AXK834225WG		
4.0 mm	42	AXK742527G	AXK842225WG	Socket: 2,000 pieces	Socket: 4,000 pie
	50	AXK750527G	AXK850225WG	Header: 3,000 pieces	Header: 6,000 pie
	80	AXK780527G	AXK880225WG	1	I

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

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^{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 ("V" 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. 70m Ω	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 soldering terminal) Min. 0.118N {12gf}/contacts × contacts (Mated height 1.5 mm, except without removal and soldering terminal)	
	Post holding force	Min. 0.981N {100gf}/contacts	Measuring the maximum force. As the contact is axially pull out.
	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.
Environmental characteristics	Thermal shock resistance (header and socket mated)	5 cycles, insulation resistance min. 100MΩ, contact resistance max. $70m\Omega$	Sequence 155-\(\frac{9}{3}\)°C, 30 minutes 2. \(\simeq \), Max. 5 minutes 3. 85'\(\frac{9}{3}\)°C, 30 minutes 4. \(\simeq \), Max. 5 minutes
	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. $100M\Omega$, contact resistance max. $70m\Omega$	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.				
Soldering terminal portion	Copper alloy	Ni plating on base, Sn plating on surface (Except for front terminal)				

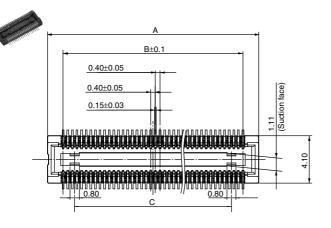
DIMENSIONS (Unit: mm)

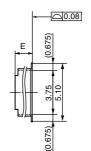
The CAD data of the products with a CAD Data mark can be downloaded from: http://panasonic-electric-works.net/ac

1. Without Soldering Terminal

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

CAD Data







General tolerance: ± 0.2

Dimension table (mm)

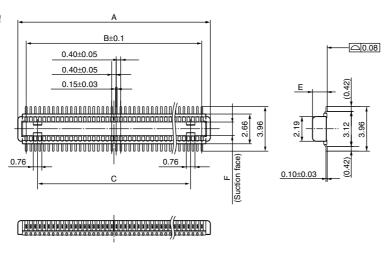
Number of contacts/ dimension	Α	В	С	D
14	5.1	2.4		2.8
16	5.5	2.8		3.2
20	6.3	3.6	1.6	_
22	6.7	4.0	2.0	_
24	7.1	4.4	2.4	_
26	7.5	4.8	2.8	
28	7.9	5.2	3.2	_
30	8.3	5.6	3.6	_
34	9.1	6.4	4.4	_
36	9.5	6.8	4.8	_
38	9.9	7.2	5.2	_
40	10.3	7.6	5.6	_
42	10.7	8.0	6.0	_
44	11.1	8.4	6.4	_
50	12.3	9.6	7.6	_
54	13.1	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







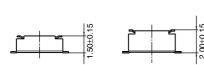
General tolerance: ±0.2

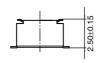
Dimension table (mm)

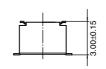
Number of contacts/ dimension	А	В	С	D
14	3.9	2.4		3.04
16	4.3	2.8		3.44
20	5.1	3.6	1.6	
22	5.5	4.0	2.0	
24	5.9	4.4	2.4	
26	6.3	4.8	2.8	_
28	6.7	5.2	3.2	_
30	7.1	5.6	3.6	_
34	7.9	6.4	4.4	
36	8.3	6.8	4.8	
38	8.7	7.2	5.2	
40	9.1	7.6	5.6	
42	9.5	8.0	6.0	_
44	9.9	8.4	6.4	_
50	11.1	9.6	7.6	-
54	11.9	10.4	8.4	-
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	_

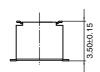
Mated height/dimension	E	F
1.5mm, 2.0mm, 2.5mm	1.31	1.20
3.0mm, 3.5mm, 4.0mm	2.26	1.26

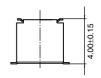
Socket and Header are mated







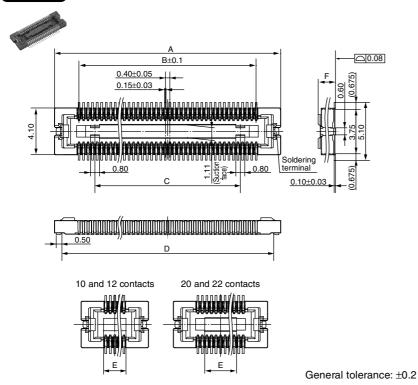




2. With Soldering Terminal

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

CAD Data



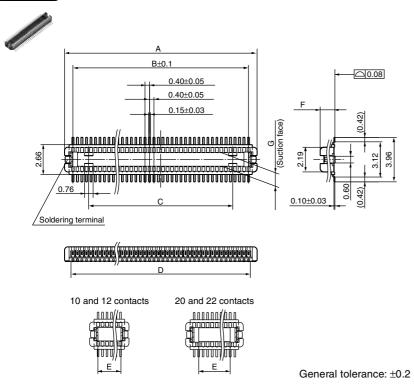
Dimension table (mm)

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

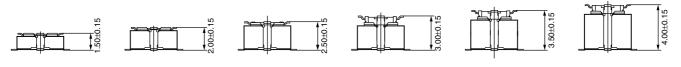


Dimension table (mm)

Number of contacts/ dimension	А		С	D	
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	_

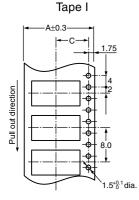
Mated height/dimension	F	G
1.5mm, 2.0mm, 2.5mm	1.31	1.20
3.0mm, 3.5mm, 4.0mm	2.26	1.26

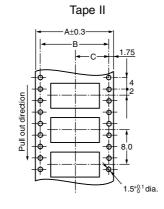
Socket and Header are mated.

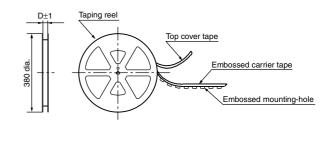


EMBOSSED TAPE DIMENSIONS (unit: mm, Common for respective contact type, socket and header)

- 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 Terminal

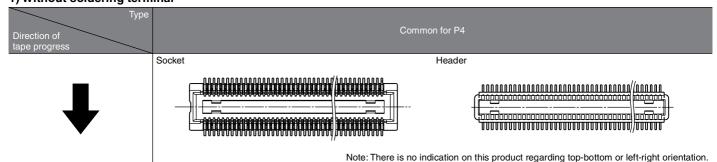
Mated height	Number o	f contacts	Type of taping		D	C	D	Quantity par roal
	Socket	Header	Type or taping	A	Ь	C	D	Quantity per reel
Common for socket and header: 1.5 mm, 2.0 mm, 2.5 mm and 3.0 mm Header: 3.5mm and 4.0 mm	Max. 18	Max. 18	Tape I	16.0	_	7.5	17.4	3,000
	20 to 60	20 to 70	Tape I	24.0	_	11.5	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	24 t	o 40	Tape I	24.0		11.5	25.4	2,000

2. With Soldering Terminal

Mated height	Number c	f contacts	Type of taping	۸	В	C	D	Quantity per reel	
	Socket	Header	Type or taping	A	Ь	C	D		
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 t	0 60	Tape I	24.0	_	11.5	25.4	2,000	
	70 t	o 90	Tape II	32.0	28.4	14.2	33.4	2,000	

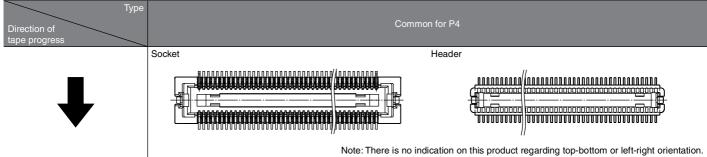
3. Connector orientation with respect to direction of progress of embossed tape

1) Without soldering terminal



Note: There is no indication on this product regarding top bottom or lost right orientation

2) With soldering terminal





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

APPLICATIONS

Ideal for module unit inspection and equipment assembly inspection

TABLE OF PRODUT TYPES

☆: Available for sale

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

- Notes: 1. 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

	Specifi	cations	Part No.	Part No.			
Socket	With soldering terminal	Without positioning bosses	AXK7E**26G	llaada	With soldering terminal	Without positioning bosses	AXK8E**26WG
Socket	Without soldering terminal	Without positioning bosses	AXK7E**46G	Header	Without soldering terminal	Without positioning bosses	AXK8E**46WG

Notes: 1. When placing an order, substitute the "*" (asterisk) in the above part number with the number of contacts for the required connector.

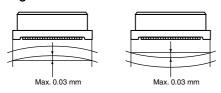
^{2.} The above part numbers are for connectors without positioning bosses, which are standard. When ordering connectors with positioning bosses, please contact our

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.

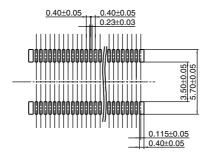
In order to reduce solder bridge and other issues make sure the proper levels of solder are used.

The figures to the right are recommended metal mask patterns.

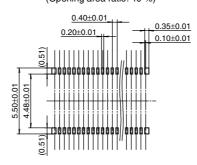
Please use them as a reference.

1) Without soldering terminal Socket

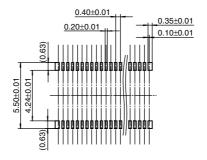
Recommended PC board pattern (TOP VIEW)



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

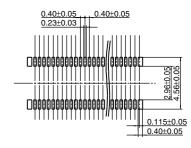


Recommended metal mask pattern Metal mask thickness: Here, 120 μm (Opening area ratio: 50 %)

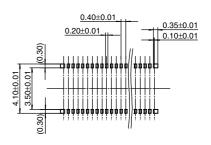


Header

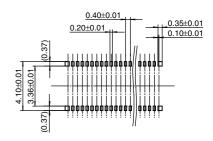
Recommended PC board pattern (TOP VIEW)



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

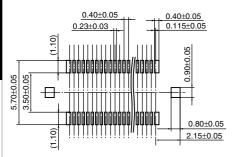


Recommended metal mask pattern Metal mask thickness: Here, 120 μm (Opening area ratio: 40 %)

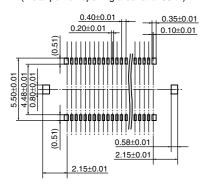


2) With soldering terminal Socket

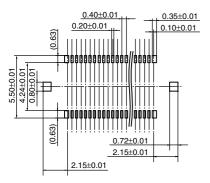
Recommended PC board pattern (TOP VIEW)



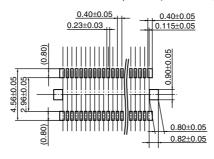
Recommended metal mask pattern Metal mask thickness: Here, 150 μm (Terminal portion opening area ratio: 40 %) (Metal portion opening area ratio: 65 %)



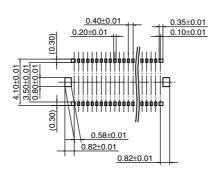
Recommended metal mask pattern Metal mask thickness: Here, 120 μ m (Terminal portion opening area ratio: 50 %) (Metal portion opening area ratio: 80 %)



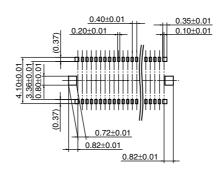
Header Recommended PC board pattern (TOP VIEW)



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 μ m (Terminal portion opening area ratio: 40 %) (Metal portion opening area ratio: 80 %)



Regarding general notes, please refer to page 148.

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