AXK(3/4)S





Socket



Header

Compliance with RoHS Directive

NARROW-PITCH CONNECTORS FOR BOARD-TO-BOARD CONNECTION

FEATURES

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



2. Porosity treatment applied for improved resistance against corrosion.

3. Mating length 1.1mm

The effective mating length has been extended to ensure that there is some latitude in the mating.



A longer effective mating length means that normal electrical connection can be maintained even if the connectors are not perfectly coupled.

Туре	Effective mating length
P6S	1.1mm

4. Automatic mounting

1) Suction area for suction-type automatic mounting machines is employed.

2) Embossed tape packaging is standard.
3) Terminal construction which is virtually resistant to solder bridging.



NARROW PITCH (0.6mm) CONNECTORS P6 SERIES – P6S –

APPLICATIONS

1. Compact portable devices "Cellular phones, DVC, Digital cameras, etc" 2. This is ideal in applications involving information devices such as notebook computers, where connections are required between a backplane and a CPU board or another type of multi-wiring expansion board.





Socket

Header

Mated height		4.0mm	5.0mm	6.0mm	7.0mm	8.0mm	9.0mm
ts	20	☆	☆	☆	☆	\$7	☆
tac	30	☆	☆	☆	☆	Σζ	☆
Con	40	☆	☆	☆	☆	Σζ	☆
of	50	☆	☆	☆	☆	☆	☆
ber	60	☆	☆	☆	☆	Σζ	☆
Number of contacts	80	\$	☆	☆	\$	\$Z	☆
z	100	☆	☆	☆	☆	24	☆

Notes: 1. Special orders are possible for contact numbers not listed in the table above. (Please consult us in such a case.)

 The standard type comes with positioning bosses. Connectors without positioning boss are available for on-demand production.

ORDERING INFORMATION



AXK(3/4)S

PRODUCT TYPES

Mated height	No. of contacts	Par	t No.	Pac	king
Maleu neigin	NO. OF COMACIS	Socket	Header	Inner carton (1 reel)	Outer carton
	20	AXK3S20035G	AXK4S20435G		
	30	AXK3S30035G	AXK4S30435G		
4.0 mm	40	AXK3S40035G	AXK4S40435G		
	50	AXK3S50035G	AXK4S50435G	1,500 pieces	3,000 pieces
	60	AXK3S60035G	AXK4S60435G		
	80	AXK3S80035G	AXK4S80435G		
	100	AXK3S00035G	AXK4S00435G		
	20	AXK3S20035G	AXK4S20535G		
	30	AXK3S30035G	AXK4S30535G		
	40	AXK3S40035G	AXK4S40535G		
5.0 mm	50	AXK3S50035G	AXK4S50535G		
	60	AXK3S60035G	AXK4S60535G		
	80	AXK3S80035G	AXK4S80535G		
	100	AXK3S00035G	AXK4S00535G	Socket: 1,500 pieces	Socket: 3,000 piece
	20	AXK3S20035G	AXK4S20635G	Header: 1,000 pieces	Header: 2,000 pieces
	30	AXK3S30035G	AXK4S30635G		
	40	AXK3S40035G	AXK4S40635G		
6.0 mm	50	AXK3S50035G	AXK4S50635G		
	60	AXK3S60035G	AXK4S60635G		
	80	AXK3S80035G	AXK4S80635G		
	100	AXK3S00035G	AXK4S00635G		
	20	AXK3S20335G	AXK4S20435G		Socket: 2,000 pieces Header: 3,000 pieces
	30	AXK3S30335G	AXK4S30435G		
	40	AXK3S40335G	AXK4S40435G		
7.0 mm	50	AXK3S50335G	AXK4S50435G	Socket: 1,000 pieces Header: 1,500 pieces	
	60	AXK3S60335G	AXK4S60435G	110000 picces	
	80	AXK3S80335G	AXK4S80435G		
	100	AXK3S00335G	AXK4S00435G		
	20	AXK3S20335G	AXK4S20535G		
	30	AXK3S30335G	AXK4S30535G		
	40	AXK3S40335G	AXK4S40535G		
8.0 mm	50	AXK3S50335G	AXK4S50535G		
	60	AXK3S60335G	AXK4S60535G		
	80	AXK3S80335G	AXK4S80535G		
	100	AXK3S00335G	AXK4S00535G	1.000 pieces	2 000 niocos
	20	AXK3S20335G	AXK4S20635G	1,000 pieces	2,000 pieces
	30	AXK3S30335G	AXK4S30635G		
	40	AXK3S40335G	AXK4S40635G		
9.0 mm	50	AXK3S50335G	AXK4S50635G		
	60	AXK3S60335G	AXK4S60635G		
	80	AXK3S80335G	AXK4S80635G		
	100	AXK3S00335G	AXK4S00635G		

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 for on-demand production. For this type of connector, 9th digit of the part no. changes from <u>3</u> to <u>4</u> e.g. Mated height 4.0 mm, 20 contacts for sockets: AXK3S200<u>4</u>5G.

SPECIFICATIONS

1. Characteristics

		Specifications			
	Item	Mated height:	Conditions		
	1	4.0mm, 5.0mm, 6.0mm, 7.0mm, 8.0mm, 9.0mm			
	Rated current	0.5A/terminal (Max. 16 A)			
	Rated voltage	60V AC/DC			
Electrical	Breakdown voltage	150V AC for 1 min.	Detection current: 1mA		
characteristics	Insulation resistance	Min. 1,000MΩ	Using 500V DC megger		
	Contact resistance	Max. 80mΩ	Based on the contact resistance measurement method specified by JIS C 5402.		
	Composite insertion force	Max. 0.785N {80gf} × no. of contacts (initial)			
<i>N</i> echanical	Composite removal force	Min. 0.0588N {6gf} × no. of contacts			
characteristics	Post holding force	Min. 0.98N {100gf}	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 245°C (on the surface of the PC board around the connector terminals)	Infrared reflow soldering		
		300°C within 5 sec.	Soldering iron		
Environmental	Thermal shock resistance (header and socket mated)	5 cycles, insulation resistance min. 100M Ω , contact resistance max. 80m Ω	Sequence 155_9°C, 30 minutes 2. ~, Max. 5 minutes 3. 85*8°C, 30 minutes 4. ~, Max. 5 minutes		
characteristics	Humidity resistance (header and socket mated)	120 hours, insulation resistance min. 100MΩ, contact resistance max. $80mΩ$	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. 80m Ω	Bath temperature 35±2°C, saltwater concentration 5±1%		
	H ₂ S resistance (header and socket mated)	48 hours, contact resistance max. $80m\Omega$	Bath temperature 40±2°C, gas concentration 3±1 ppm, humidity 75 to 80% R.H.		
_ifetime characteristics	Insertion and removal life	50 times	Repeated insertion and removal speed of max. 200 times/hours		
Unit weight		P6S Mated height: 4mm 50 contacts; Socket: 0.29g Header: 0.26g			

2. Material and surface treatment

Part name		Mated height: 4.0mm, 5.0mm, 6.0mm, 7.0mm, 8.0mm, 9.0mm
Fan name	Material	Surface treatment
Molded portion	Heat-resistant resin (UL94V-0)	-
Contact/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)

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

- Mated height: 4.0mm, 5.0mm, 6.0mm, 7.0mm, 8.0mm, 9.0mm
- Socket





Dimension table (mm)

Dimension tabl						
No. of contact	A	В	С	Mated height	D	
20	9.1	5.40	8.00	4.0mm, 5.0mm, 6.0m	n 3.05	
30	12.1	8.40	11.00	7.0mm, 8.0mm, 9.0m	n 6.05	
40	15.1	11.40	14.00			
50	18.1	14.40	17.00			
60	21.1	17.40	20.00			
80	27.1	23.40	26.00		The specifications and appearance of this product are subject to change for impr	ovement
100	33.1	29.40	32.00		Please contact us for details.	

Matsushita Electric Works, Ltd.



General tolerance: ±0.2

Dimension table (mm)

No. of contact	А	В	С
20	9.1	5.40	8.00
30	12.1	8.40	11.00
40	15.1	11.40	14.00
50	18.1	14.40	17.00
60	21.1	17.40	20.00
80	27.1	23.40	26.00
100	33.1	29.40	32.00

Mated height	D	E
4.0mm, 7.0mm	0.95	3.3
5.0mm, 8.0mm	1.95	4.3
6.0mm, 9.0mm	2.95	5.3

Socket and header are mated



Mated height	Н
4.0mm	4
5.0mm	5
6.0mm	6
7.0mm	7
8.0mm	8
9.0mm	9

75

1.5^{+0.1}dia

EMBOSSED TAPE DIMENSIONS (unit: mm, Common for respective contact type, socket and header) • Tape dimensions (Conforming to JIS C 0806-1990. • Plastic reel dimensions (Conforming to EIAJ ET-7200B) However, some tapes have mounting hole pitches that do

not comply with the standard.)



Tape II



The specifications and appearance of this product are subject to change for improvement. Please contact us for details.

http://www.mew.co.jp/ac/e/

AXK(3/4)S

Dimension table (mm)

Suffix: G (embossed tape package)

Mated height	No. of contacts	Type of taping	A	В	С	D	E	F	Quantity per reel	
	20 to 40	Tape I	24.0		11.5	12.0	25.4±1			
Socket: 4.0mm, 5.0mm, 6.0mm	50 to 60	Tape II	32.0	28.4	14.2	12.0	33.4±1	380 dia.	1,500	
Socket: 4.0mm, 5.0mm, 6.0mm	80	Tape II	44.0	40.4	20.2	12.0	45.4±1	300 ula.		
	100	Tape II	56.0	52.4	26.2	12.0	57.4±1			
	20 to 40	Tape I	24.0		11.5	12.0	25.4±1	- 380 dia.	1,000	
Socket: 7.0mm, 8.0mm, 9.0mm	50 to 60	Tape II	32.0	28.4	14.2	12.0	33.4±1			
Socket. 7.0mm, 8.0mm, 9.0mm	80	Tape II	44.0	40.4	20.2	12.0	45.4±1			
	100	Tape II	56.0	52.4	26.2	12.0	57.4±1			
	20 to 40	Tape I	24.0		11.5	12.0	25.4±1		1,500	
Header: 4.0mm. 7.0mm	50	Tape II	32.0	28.4	14.2	12.0	33.4±1	380 dia.		
Header: 4.0mm, 7.0mm	60 to 80	Tape II	44.0	40.4	20.2	12.0	45.4±1	300 ula.		
	100	Tape II	56.0	52.4	26.2	12.0	57.4±1			
	20 to 40	Tape I	24.0		11.5	12.0	25.4±1			
Header: 5.0mm, 6.0mm, 8.0mm, 9.0mm	50 to 60	Tape II	32.0	28.4	14.2	12.0	33.4±1	380 dia.	1,000	
neader: 5.0mm, 6.0mm, 6.0mm, 8.0mm	80	Tape II	44.0	40.4	20.2	12.0	45.4±1	300 ula.	1,000	
	100	Tape II	56.0	52.4	26.2	12.0	57.4±1			

Connector orientation with respect to direction of progress of embossed tape



NOTES

1. Prevention of reverse mating Excessive mating force may damage the

key, so be sure to match chamfered corners when mating.







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

The specifications and appearance of this product are subject to change for improvement. Please contact us for details.