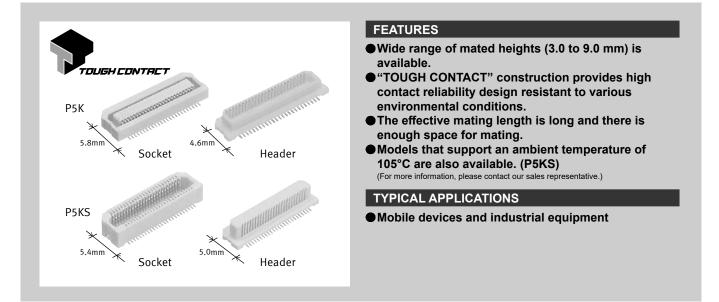
Panasonic Industry

Narrow pitch connectors For board-to-board

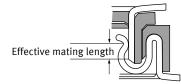
P5K (0.5 mm pitch), P5KS (0.5 mm pitch)

Mated heights of 3.0 to 9.0 mm supported with "TOUGH CONTACT" construction provides resistant to various environmental conditions.



DETAILS FEATURES

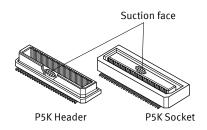
The effective mating length is long and there is enough space for mating



Even if the connection is incomplete, as the effective mating is longer, the normal electrical connection can be expected.

Automatic mounting

Suction area for automatic mounting machines is employed.

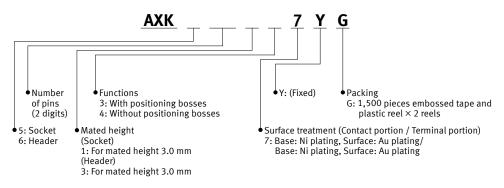


Туре	Effective mating length
P5K	0.65 mm
P5KS	1.0 mm

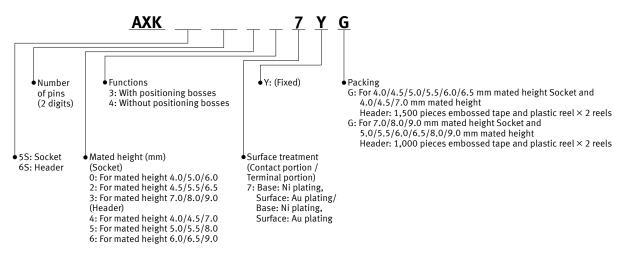
-1-

ORDERING INFORMATION (PART NO.)

P5K (Mated height 3.0 mm)



■P5KS(Mated height 4.0 mm • 4.5 mm • 5.0 mm • 5.5 mm • 6.0 mm • 6.5 mm • 7.0 mm • 8.0 mm • 9.0 mm)



PRODUCT TYPES

P5K

Matad baight	Number of pipe	Part	No.	Standard	packing	
Mated height	Number of pins	Socket Header		Inner carton (1-reel)	Outer carton	
	20	AXK520147YG	AXK620347YG			
	30	AXK530147YG	AXK630347YG			
	40	AXK540147YG	AXK640347YG			
	50 3.0 mm 60 70	AXK550147YG	AXK650347YG		3,000 pcs.	
3.0 mm		AXK560147YG	AXK660347YG	1,500 pcs.		
		AXK570147YG	AXK670347YG			
	80	AXK580147YG	AXK680347YG			
	100	AXK500147YG	AXK600347YG		1	
	120	AXK5A2147YG	AXK6A2347YG			

Notes: 1. Order unit: For volume production: 1-inner carton (1-reel) units. For samples, please contact our sales representative.

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

Made d hainhd - Numerican af air a		Part No.		Standard packing		
Mated height	Number of pins	Socket	Header	Inner carton (1-reel)	Outer carton	
	20	AXK5S20047YG	AXK6S20447YG			
	24	AXK5S24047YG	AXK6S24447YG			
	30	AXK5S30047YG	AXK6S30447YG			
	34	AXK5S34047YG	AXK6S34447YG			
4.0	40	AXK5S40047YG	AXK6S40447YG			
4.0 mm	50	AXK5S50047YG	AXK6S50447YG			
	60	AXK5S60047YG	AXK6S60447YG			
	70	AXK5S70047YG	AXK6S70447YG			
	80	AXK5S80047YG	AXK6S80447YG			
	100	AXK5S00047YG	AXK6S00447YG	4.500	0.000	
	20	AXK5S20247YG	AXK6S20447YG	1,500 pcs.	3,000 pcs.	
	24	AXK5S24247YG	AXK6S24447YG			
	30	AXK5S30247YG	AXK6S30447YG			
	34	AXK5S34247YG	AXK6S34447YG			
	40	AXK5S40247YG	AXK6S40447YG			
4.5 mm	50	AXK5S50247YG	AXK6S50447YG			
	60	AXK5S60247YG	AXK6S60447YG			
	70	AXK5S70247YG	AXK6S70447YG			
	80	AXK5S80247YG	AXK6S80447YG			
	100	AXK5S00247YG	AXK6S00447YG			
	20	AXK5S20047YG	AXK6S20547YG			
	24	AXK5S24047YG	AXK6S24547YG			
	30	AXK5S30047YG	AXK6S30547YG	-		
	34	AXK5S34047YG	AXK6S34547YG			
	40	AXK5S40047YG	AXK6S40547YG			
5.0 mm	50	AXK5S50047YG	AXK6S50547YG			
	60	AXK5S60047YG	AXK6S60547YG			
	70	AXK5S70047YG	AXK6S70547YG			
	80	AXK5S80047YG	AXK6S80547YG			
	100	AXK5S00047YG	AXK6S00547YG			
	20	AXK5S20247YG	AXK6S20547YG			
	24	AXK5S24247YG	AXK6S24547YG			
	30	AXK5S30247YG	AXK6S30547YG			
	34	AXK5S34247YG	AXK6S34547YG		Socket: 3,000 pcs.	
	40	AXK5S40247YG	AXK6S40547YG	Header:	Header:	
5.5 mm	50	AXK5S50247YG	AXK6S50547YG	1,000 pcs.	2,000 pcs.	
	60	AXK5S60247YG	AXK6S60547YG			
	70	AXK5S70247YG	AXK6S70547YG			
	80	AXK5S80247YG	AXK6S80547YG			
	100	AXK5S00247YG	AXK6S00547YG	┨ │		
	20	AXK5S20047YG	AXK6S20647YG	1		
	30	AXK5S30047YG	AXK6S30647YG	1		
	40	AXK5S40047YG	AXK6S40647YG	1		
0.0	50	AXK5S50047YG	AXK6S50647YG	1		
6.0 mm	60	AXK5S60047YG	AXK6S60647YG	1		
	70	AXK5S70047YG	AXK6S70647YG	1		
	80	AXK5S80047YG	AXK6S80647YG	1		
	100	AXK5S00047YG	AXK6S00647YG	-		

Notes: 1. Order unit: For volume production: 1-inner carton (1-reel) units. For samples, please contact our sales representative. 2. The standard type comes without positioning bosses. Connectors with positioning bosses are available for on-demand production.

lated height	Number of pins	Part	No.	Standard	Standard packing		
Mateu height Number of pins		Socket	Header	Inner carton(1-reel)	Outer carton		
	20	AXK5S20247YG	AXK6S20647YG				
	30	AXK5S30247YG	AXK6S30647YG				
	40	AXK5S40247YG	AXK6S40647YG	Socket:	Socket:		
6.5 mm	50	AXK5S50247YG	AXK6S50647YG	1,500 pcs.	3,000 pcs.		
0.0 mm	60	AXK5S60247YG	AXK6S60647YG	Header:	Header:		
	70	AXK5S70247YG	AXK6S70647YG	1,000 pcs.	2,000 pcs.		
	80	AXK5S80247YG	AXK6S80647YG				
	100	AXK5S00247YG	AXK6S00647YG				
	20	AXK5S20347YG	AXK6S20447YG				
	30	AXK5S30347YG	AXK6S30447YG				
	40	AXK5S40347YG	AXK6S40447YG	Socket:	Socket:		
7.0 mm	50	AXK5S50347YG	AXK6S50447YG	1,000 pcs.	2,000 pcs. Header: 3,000 pcs.		
7.0 mm 60 70 80	60	AXK5S60347YG	AXK6S60447YG	Header:			
	70	AXK5S70347YG	AXK6S70447YG	1,500 pcs.			
	80	AXK5S80347YG	AXK6S80447YG				
	100	AXK5S00347YG	AXK6S00447YG				
	20	AXK5S20347YG	AXK6S20547YG				
	30	AXK5S30347YG	AXK6S30547YG				
	40	AXK5S40347YG	AXK6S40547YG				
9.0 mm	50	AXK5S50347YG	AXK6S50547YG				
8.0 mm	60	AXK5S60347YG	AXK6S60547YG				
	70	AXK5S70347YG	AXK6S70547YG				
	80	AXK5S80347YG	AXK6S80547YG				
	100	AXK5S00347YG	AXK6S00547YG	1,000 pcs.	2,000 pcs.		
	20	AXK5S20347YG	AXK6S20647YG	1,000 pcs.	2,000 pcs.		
	30	AXK5S30347YG	AXK6S30647YG				
	40	AXK5S40347YG	AXK6S40647YG				
0.0 mm	50	AXK5S50347YG	AXK6S50647YG				
9.0 mm	60	AXK5S60347YG	AXK6S60647YG				
	70	AXK5S70347YG	AXK6S70647YG				
	80	AXK5S80347YG	AXK6S80647YG				
	100	AXK5S00347YG	AXK6S00647YG				

Notes: 1. Order unit: For volume production: 1-inner carton (1-reel) units. For samples, please contact our sales representative. 2. The standard type comes without positioning bosses. Connectors with positioning bosses are available for on-demand production.

SPECIFICATIONS

Characteristics

			Specifications		_	
	ltem	(Mated height) 3.0 mm	(Mated height) 4.0 mm, 4.5 mm 5.0 mm, 5.5 mm 6.0 mm, 6.5 mm	(Mated height) 7.0 mm, 8.0 mm 9.0 mm	Conditions	
	Rated current	0.5 A/pin contact (Max. 10 A at total pin contacts)	0.5 A/pin contact (Ma contacts)	x. 16 A at total pin		
	Rated voltage	60 V AC/DC				
Electrical characteristics	Dielectric strength	150 V AC for 1 min.			No short-circuiting or damage at a detection current of 1 mA when the specified voltage is applied for one minute.	
	Insulation resistance	Min. 1000 MΩ (initial)		-	Using 500 V DC megger (applied for 1 min.)	
	Contact resistance	Max. 60 mΩ		Max. 80 mΩ	Based on the contact resistance measurement method specified by JIS C 5402.	
Mechanical	Composite insertion force	Max. 0.785 N/pin con	tact × pin contacts (init	ial)		
characteristics	Composite removal force	Min. 0.0588 N/pin cor	ntact × pin contacts			
	Ambient temperature	–55 to +85°C			No icing. No condensation.	
	Soldering heat resistance	The initial specification mechanically.	on must be satisfied ele	ectrically and	Reflow soldering: Peak temperature: 260°C or less (on the surface of the PC board around the connector terminals) Soldering iron: 300°C within 5 sec. 350°C within 3 sec.	
Storage temperature		–55 to +85°C (product only) –40 to +50°C (emboss packing)			No icing. No condensation.	
Environmental characteristics	Thermal shock resistance (header and socket mated)	5 cycles, insulation resistance contact resistance M		5 cycles, insulation resistance Min. 100 MΩ, contact resistance Max. 80 mΩ	$\begin{tabular}{ c c c c c } \hline Conformed to MIL-STD-202F, method 1070 \\ \hline Order Temperature (°C) Time (minutes) \\ \hline 1 & -55_{-3}^{0} & 30 \\ \hline 2 & $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$	
	Humidity resistance (header and socket mated)	120 hours, insulation resistance contact resistance M	,	120 hours, insulation resistance Min. 100 M Ω , contact resistance Max. 80 m Ω	Conformed to IEC60068-2-78 Temperature 40±2°C, humidity 90 to 95% RH	
	Saltwater spray resistance (header and socket mated)	24 hours, insulation resistance contact resistance M	,	$\begin{array}{c} 24 \ hours, \\ insulation \ resistance \\ Min. \ 100 \ M\Omega, \\ contact \ resistance \\ Max. \ 80 \ m\Omega \end{array}$	Conformed to IEC60068-2-11 Temperature 35±2°C, saltwarter concentration 5±1%	
	H₂S resistance (header and socket mated)	48 hours, contact resistance M	ax. 60 mΩ	48 hours, contact resistance Max. 80 mΩ	Temperature 40±2°C, gas concentration 3±1 ppm, humidity 75 to 80% RH	
Lifetime characteristics	Insertion and removal life	50 times			Repeated insertion and removal speed of Max. 200 times/hour	
Unit weight		P5K Mated height 3.0 50 pins; Socket: 0.1 P5KS Mated height 4 30 pins; Socket: 0.1	7 g, Header: 0.09 g .0 mm			

Material and surface treatment

Part name	Material	Surface treatment
Molded portion	LCP resin (UL94V-0)	-
Contact and Post	Copper alloy	Contact portion: Base: Ni plating Surface: Au plating Terminal portion: Base: Ni plating Surface: Au plating (except the terminal tips) The terminals close to the portion to be soldered have nickel barriers (exposed nickel portions).

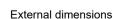
Unit: mm

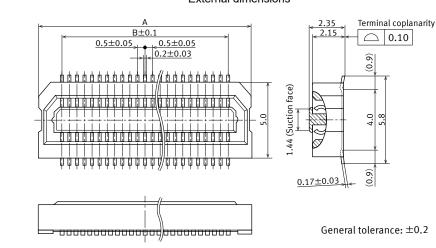
DIMENSIONS

CAD

CAD The CAD data of the products with a "CAD" mark can be downloaded from our Website.

P5K Socket (Mated height 3.0 mm)





Dimensions Number of pins	А	В
20	8.20	4.50
30	10.70	7.00
40	13.20	9.50
50	15.70	12.00
60	18.20	14.50

20.70

23.20

28.20

33.20

17.00

19.50

24.50

29.50

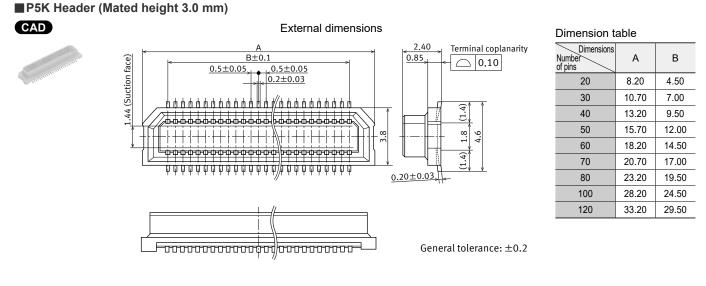
Dimension table

70

80

100

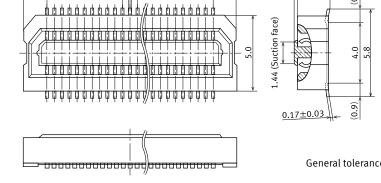
120

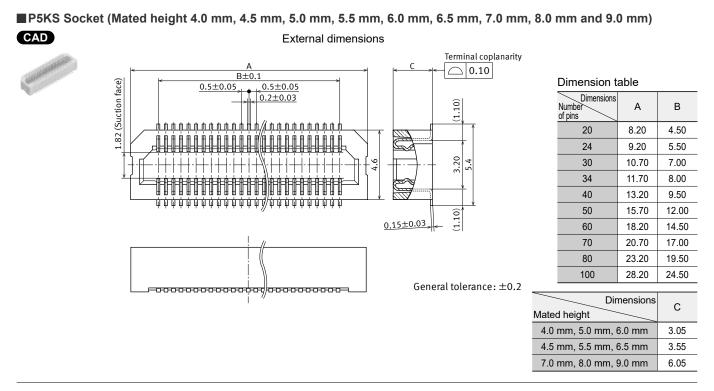


Socket and Header are mated

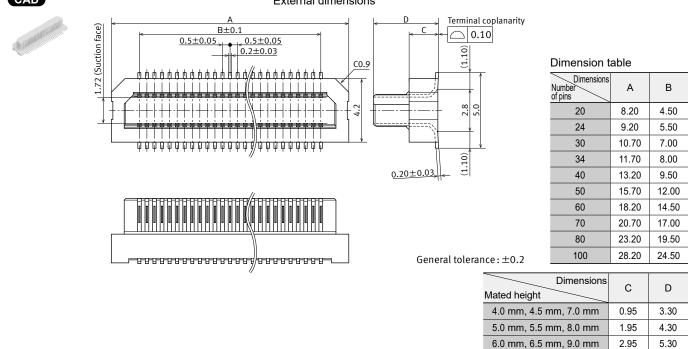


Note: P5KS (mated heights 4.0 mm, 4.5 mm, 5.0 mm, 5.5 mm, 6.0 mm, 6.5 mm, 7.0 mm, 8.0 mm, and 9.0 mm) cannot be mated to this type.





P5KS Header (Mated height 4.0 mm, 4.5 mm, 5.0 mm, 5.5 mm, 6.0 mm, 6.5 mm, 7.0 mm, 8.0 mm and 9.0 mm)
CAD
External dimensions



Socket and Header are mated

Dimensions Mated height	A
4.0 mm	4.00
4.5 mm	4.50
5.0 mm	5.00
5.5 mm	5.50
6.0 mm	6.00
6.5 mm	6.50
7.0 mm	7.00
8.0 mm	8.00
9.0 mm	9.00

Note: P5K (mated heights 3.0 mm) cannot be mated to this type.

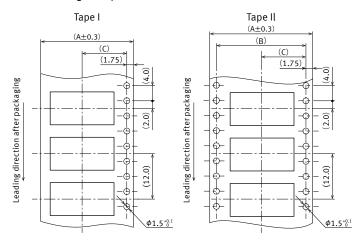
Panasonic Corporation Electromechanical Control Business Division industrial.panasonic.com/ac/e/

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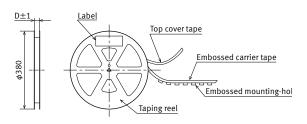
EMBOSSED TAPE DIMENSIONS

Specifications for taping

In accordance with JIS C 0806:1990. However, not applied to the mounting-hole pitch of some connectors.



■ Specifications for the plastic reel In accordance with EIAJ ET-7200B.



Dimension table

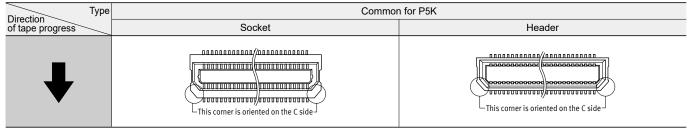
●P5K

Type/Mated height	Number of pins	Type of taping	A	В	С	D	Quantity per reel
Socket and header are common 3.0 mm	20 to 50	Tape I	24.0	-	11.5	25.4	
	60 to 70	Tape II	32.0	28.4	14.2	33.4	- 1,500
	80 to 100	Tape II	44.0	40.4	20.2	45.4	
	120	Tape II	56.0	52.4	26.2	57.4	

●P5KS

Type/Mated height	Number of pins	Type of taping	А	В	С	D	Quantity per reel
Socket 4.0 mm, 4.5 mm, 5.0 mm,	20 to 50	Tape I	24.0	-	11.5	25.4	
5.5 mm, 6.0 mm, 6.5 mm Header	60 to 70	Tape II	32.0	28.4	14.2	33.4	1,500
4.0 mm, 4.5 mm, 7.0 mm	80 to 100	Tape II	44.0	40.4	20.2	45.4	
Socket 7.0 mm, 8.0 mm, 9.0 mm Header	20 to 50	Tape I	24.0	-	11.5	25.4	
	60 to 70	Tape II	32.0	28.4	14.2	33.4	1,000
5.0 mm, 5.5 mm, 6.0 mm, 6.5 mm, 8.0 mm, 9.0 mm	80 to 100	Tape II	44.0	40.4	20.2	45.4	

Connector orientation with respect to embossed tape feeding direction



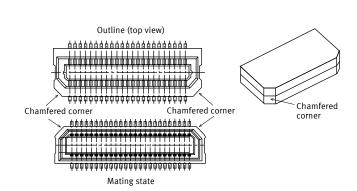
Type	Common for P5KS				
of tape progress	Socket	Header			
₽	This corner is oriented on the C side	This corner is oriented on the C side			



NOTES

Prevention of reverse mating

The socket and header are protected from reverse mating by a molded resin key. Excessive mating force may damage the key, so be sure to match chamfered corners when mating.



Unit: mm

Design of PC board patterns

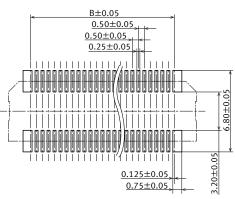
Conduct the recommended foot pattern design, in order to preserve the mechanical strength of terminal solder areas.

Recommended PC board and metal mask patterns Connectors are mounted with high pitch density, intervals of 0.35 mm, 0.4 mm or 0.5 mm. In order to reduce solder and flux rise, solder bridges and other issues make sure the proper levels of solder is used.

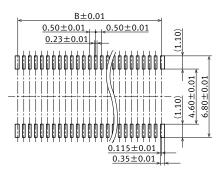
Note: Please refer to the dimension table for the B dimension of the socket and header.

P5K Socket

 Recommended PC board pattern (TOP VIEW)



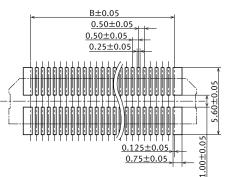
Recommended metal mask pattern
 Metal mask thickness: When 150 µm
 (Opening area ratio: 56%)



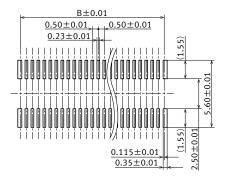
The figures are recommended patterns. Please use them as a reference.

P5K Header
 Recommended PC board pattern

(TOP VIEW)

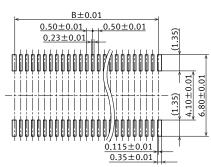


 Recommended metal mask pattern Metal mask thickness: When 150 µm (Opening area ratio: 62%)



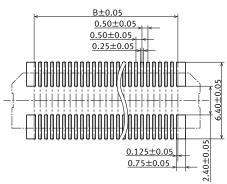
Narrow Pitch Connectors P5K (0.5 mm pitch), P5KS (0.5 mm pitch)

 Recommended metal mask pattern Metal mask thickness: When 120 µm (Opening area ratio: 69%)

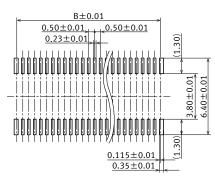


■P5KS Socket

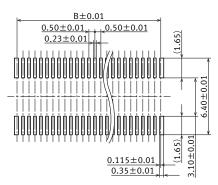
 Recommended PC board pattern (TOP VIEW)



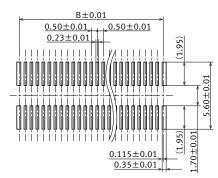
Recommended metal mask pattern
 Metal mask thickness: When 150 µm
 (Opening area ratio: 60%)



Recommended metal mask pattern
 Metal mask thickness: When 120 µm
 (Opening area ratio: 76%)

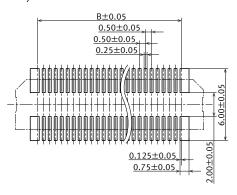


Recommended metal mask pattern
 Metal mask thickness: When 120 µm
 (Opening area ratio: 78%)

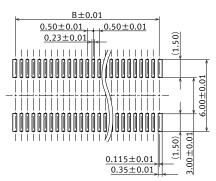


P5KS Header

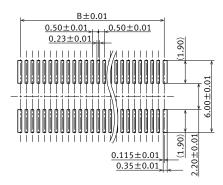
 Recommended PC board pattern (TOP VIEW)



Recommended metal mask pattern
 Metal mask thickness: When 150 µm
 (Opening area ratio: 69%)



Recommended metal mask pattern
 Metal mask thickness: When 120 µm
 (Opening area ratio: 87%)



Please refer to **"the latest product specifications"** when designing your product. •Requests to customers: https://industrial.panasonic.com/ac/e/salespolicies/

About safety remarks

Observe the following safety remarks to prevent accidents and injuries.

- Do not use these connectors beyond the specification sheets. The usage outside of specified rated current, dielectric strength, and environmental conditions and so on may cause circuitry damage via abnormal heating, smoke, and fire.
- In order to avoid accidents, your thorough specification review is appreciated. Please contact our sales representative if your usage is out of the specifications. Otherwise, Panasonic Corporation cannot guarantee the quality and reliability.
- Panasonic Corporation is consistently striving to improve quality and reliability. However, the fact remains that electrical components and devices generally cause failures at a given statistical probability. Furthermore, their durability varies with use environments or use conditions. In this respect, please check for actual electrical components and devices under actual conditions before use. Continued usage in a state of degraded condition may cause the deteriorated insulation, thus result in abnormal heat, smoke or firing. Please carry out safety design and periodic maintenance including redundancy design, design for fire spread prevention, and design for malfunction prevention so that no accidents resulting in injury or death, fire accidents, or social damage will be caused as a result of failure of the products or ending life of the products.

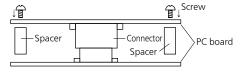
Regarding the design of devices and PC board patterns

- When using board to board connectors, a pair of board shall NOT be connected with multiple connectors. Otherwise, misaligned connector positions may cause mating failure or product breakage. Panasonic corporation does not guarantee the failures caused by using the multiple connectors.
- With mounting equipment, there may be up to a ±0.2 to 0.3 mm error in positioning. Be sure to design PC boards and patterns while taking into consideration the performance and abilities of the required equipment.
- Some connectors have tabs embossed on the body to aid in positioning. When using these connectors, make sure that the PC board is designed with positioning holes to match these tabs.
- To ensure the required mechanical strength when soldering the connector terminals, make sure the PC board meets recommended PC board pattern design dimensions given.
- PC board

Control the thicknesses of the cover lay and adhesive to prevent poor soldering. This connector has no stand-off. Therefore, minimize the thickness of the cover lay, etc. so as to prevent the occurrence of poor soldering.

 For all connectors of the narrow pitch series, to prevent the PC board from coming off during vibrations or impacts, and to prevent loads from falling directly on the soldered portions, be sure to design some means to fix the PC board in place.

Example) Secure in place with screws



When connecting PC boards, take appropriate measures to prevent the connector from coming off.

- When mounting connectors on a FPC
 - When the connector soldered to FPC is mated or unmated, solder detachment may occur by the force to the terminals.
 - Connector handling is recommended in the condition when the reinforcing plate is attached to the backside of FPC where the connector is mounted. The external dimension of the reinforcing plate is recommended to be larger than the dimension of "Recommended PC board pattern" (extended dimension of one side is approximately 0.5 to 1.0 mm). The materials and thickness of the reinforcing plate are glass epoxy or polyimide (thickness 0.2 to 0.3 mm) or SUS (thickness 0.1 to 0.2 mm).
 - As this connector has temporary locking structure, the connector mating may be separated by the dropping impact depend on the size, weight or bending force of the FPC. Please consider the measures at usage to prevent the mating separation.
- The narrow pitch connector series is designed to be compact and thin. Although ease of handling has been taken into account, take care when mating the connectors, as displacement or angled mating could damage or deform the connector.

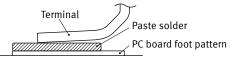
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Regarding the selection of the connector placement machine and the mounting procedures

- Select the placement machine taking into consideration the connector height, required positioning accuracy, and packaging conditions.
- Be aware that if the chucking force of the placement machine is too great, it may deform the shape of the connector body or connector terminals.
- Be aware that during mounting, external forces may be applied to the connector contact surfaces and terminals and cause deformations.
- Depending on the size of the connector being used, self alignment may not be possible. In such cases, be sure to carefully position the terminal with the PC board pattern.

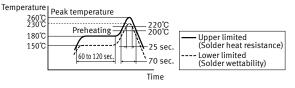
Regarding soldering

- Reflow soldering
 - Measure the recommended profile temperature for reflow soldering by placing a sensor on the PC board near the connector surface or terminals. (Please refer to the specification for detail because the temperature setting differs by products.)
 - As for cream solder printing, screen printing is recommended.
 - When setting the screen opening area and PC board foot pattern area, refer the recommended PC board pattern and window size of metal mask on the specification sheet, and make sure that the size of board pattern and metal mask at the base of the terminals are not increased.
 - Please pay attentions not to provide too much solder. It makes miss mating because of interference at soldering portion when mating.



- When mounting on both sides of the PC board and the connector is mounting on the underside, use adhesives or other means to ensure the connector is properly fixed to the PC board. (Double reflow soldering on the same side is possible.)
- The condition of solder or flux rise and wettability varies depending on the type of solder and flux. Solder and flux characteristics should be taken into consideration and also set the reflow temperature and oxygen level.

- The positioning bosses give an approximate alignment for positioning on the PC board. For accurate positioning of the connector when mounting it to the PC board, we recommend using an automatic positioning machine.
- In case of dry condition, please note the occurrence of static electricity. The product may be adhered to the embossed carrier tape or the cover tape in dry condition. Recommended humidity is from 40 to 60% RH and please remove static electricity by ionizer in manufacturing process.
 - Do not use resin-containing solder. Otherwise, the contacts might be firmly fixed.
 - Soldering conditions
 - Please use the reflow temperature profile conditions recommended below for reflow soldering. Please contact our sales representative before using a temperature profile other than that described below (e.g. lead-free solder)



For products other than the ones above, please refer to the latest product specifications.

- The temperature profiles given in this catalog are values measured when using the connector on a resin-based PC board. When performed reflow soldering on a metal board (iron, aluminum, etc.) or a metal table to mount on a FPC, make sure there is no deformation or discoloration of the connector before mounting.
- Please contact our sales representative when using a screen-printing thickness other than that recommended.

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the connector.

solder before use.

attentions.

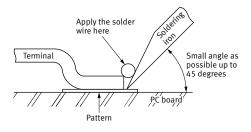
Hand soldering

• Set the soldering iron so that the tip temperature is less than that given in the table below.

Table A

Product name	Soldering iron temperature
SMD type connectors all products	300℃ within 5 sec. 350℃ within 3 sec.

- Do not allow flux to spread onto the connector leads or PC board. This may lead to flux rising up to the connector inside.
- Touch the soldering iron to the foot pattern. After the foot pattern and connector terminal are heated, apply the solder wire so it melts at the end of the connector terminals.



Solder reworking

- Finish reworking in one operation.
- In case of soldering rework of bridges. Do not use supplementary solder flux. Doing so may cause contact problems by flux.
- Keep the soldering iron tip temperature below the temperature given in Table A.

Handling single components

- Make sure not to drop or allow parts to fall from work bench.
- Excessive force applied to the terminals could cause warping, come out, or weaken the adhesive strength of the solder. Handle with care.

Precautions for mating

This product is designed with ease of handling. However, in order to prevent the deformation or damage of contacts and molding, take care and do not mate the connectors as shown right.

Our products are symmetrical structure. Please avoid reverse insertion of connector. Inserting a connector in a circuit direction opposite to that you intended may cause circuitry damage via abnormal heating, smoke, and fire.

Cleaning flux from PC board

There is no need to clean this product. If cleaning it, pay attention to the following points to prevent the negative effect to the product. • Do not insert or remove the connector when it is not soldered. Forcibly applied external pressure on the terminals can weaken the adherence of the terminals to the molded part or cause the terminals to lose their evenness.

• Be aware that soldering while applying a load on the

 Flux from the solder wire may get on the contact surfaces during soldering operations. After soldering, carefully check the contact surfaces and clean off any

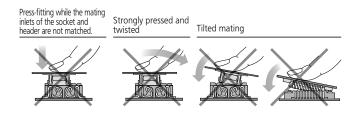
• Thoroughly clean the soldering iron.

connector terminals may cause improper operation of

• These connector is low profile type. If too much solder

because of interference at soldering portion. Please pay

is supplied for hand soldering, It makes miss mating



- Keep the cleaning solvent clean and prevent the connector contacts from contamination.
- Some cleaning solvents are strong and they may dissolve the molded part and characters, so pure water passed liquid solvent is recommended.

— 14 —

Handling the PC board

Handling the PC board after mounting the connector

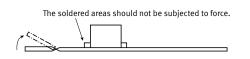
When cutting or bending the PC board after mounting the connector, be careful that the soldered sections are subjected to excessive force.

Storage of connectors

- To prevent problems from voids or air pockets due to heat of reflow soldering, avoid storing the connectors in areas of high humidity.
- Depending on the connector type, the color of the connector may vary from connector to connector depending on when it is produced. Some connectors may change color slightly if subjected to ultraviolet rays during storage. This is normal and will not affect the operation of the connector.

Other Notes

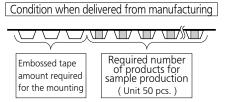
- Do not remove or insert the electrified connector (in the state of carrying current or applying voltage).
- Dropping of the products or rough mishandling may bend or damage the terminals and possibly hinder proper reflow soldering.
- Before soldering, try not to insert or remove the connector more than absolutely necessary.

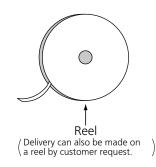


- When storing the connectors with the PC boards assembled and components already set, be careful not to stack them up so the connectors are subjected to excessive forces.
- Avoid storing the connectors in locations with excessive dust. The dust may accumulate and cause improper connections at the contact surfaces.
- When coating the PC board after soldering the connector to prevent the deterioration of insulation, perform the coating in such a way so that the coating does not get on the connector.
- There may be variations in the colors of products from different production lots. This is normal.
- The connectors are not meant to be used for switching.
- Product failures due to condensation are not covered by warranty.

Regarding sample orders to confirm proper mounting

When ordering samples to confirm proper mounting with the placement machine, connectors are delivered in 50-piece units in the condition given right. Consult a sale representative for ordering sample units.





Please refer to **"the latest product specifications"** when designing your product. • Requests to customers: https://industrial.panasonic.com/ac/e/salespolicies/

Please contact

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