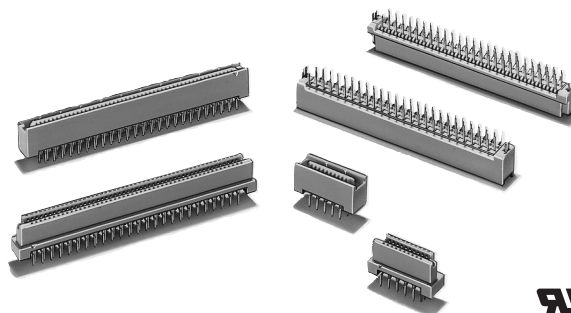


Half-pitch Board-to-Board Connectors XH3


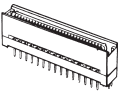
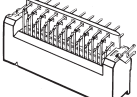
**Screw Mount Eliminated to Save Space.
Adjustable Stacking Height of 12 to 20 mm.**

- The stacking height can be adjusted in 1-mm increments.
- Mating length of 3.1 mm and a pitch of 1.27 mm for high-density mounting in double-row arrangements.
- All models incorporate fastening pins to secure the terminals, thus preventing floating or falling over during soldering.
- Leaf contact construction enables smooth mating and resistance to bending.
- The XH3 conforms to EN, IEC, UL (file no. E103202), and CSA (file no. LR62678).



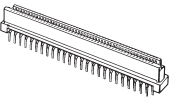
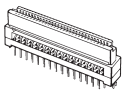
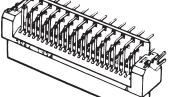
Ordering Information

Plugs - - Straight and Right-angle Through-hole PCB Terminals

Appearance						
	No Fastening Pin	With PCB Fastening Pins (See Note)				
	(Standard)	(Standard)	(2-mm increments)	(4-mm increments)	(Standard)	
No. of contacts	Straight Terminals					Right-angle Terminals
20	XH3A-2041	XH3A-2041-A	XH3A-2041-2A	XH3A-2041-4A	---	
30	XH3A-3041	XH3A-3041-A	XH3A-3041-2A	XH3A-3041-4A	XH3A-3042-A	
40	XH3A-4041	XH3A-4041-A	XH3A-4041-2A	XH3A-4041-4A	XH3A-4042-A	
50	XH3A-5041	XH3A-5041-A	XH3A-5041-2A	XH3A-5041-4A	XH3A-5042-A	
60	XH3A-6041	XH3A-6041-A	XH3A-6041-2A	XH3A-6041-4A	XH3A-6042-A	
68	XH3A-6841	XH3A-6841-A	XH3A-6841-2A	XH3A-6841-4A	XH3A-6842-A	
80	XH3A-8041	XH3A-8041-A	XH3A-8041-2A	XH3A-8041-4A	XH3A-8042-A	
100	XH3A-0141	XH3A-0141-A	XH3A-0141-2A	XH3A-0141-4A	XH3A-0142-A	
120	XH3A-0241	XH3A-0241-A	XH3A-0241-2A	XH3A-0241-4A	---	

Note: Applicable board thickness is 1.6 mm.

Sockets - - Straight and Right-angle Through-hole PCB Terminals

Appearance						
	No Fastening Pin	With PCB Fastening Pins (See Note)				
	(Standard)	(Standard)	(1-mm increment)	(3-mm increments)	(4-mm increments)	(Standard)
No. of contacts	Straight Terminals					Right-angle
20	XH3B-2041	XH3B-2041-A	XH3B-2041-1A	XH3B-2041-3A	XH3B-2041-4A	---
30	XH3B-3041	XH3B-3041-A	XH3B-3041-1A	XH3B-3041-3A	XH3B-3041-4A	XH3B-3042-A
40	XH3B-4041	XH3B-4041-A	XH3B-4041-1A	XH3B-4041-3A	XH3B-4041-4A	XH3B-4042-A
50	XH3B-5041	XH3B-5041-A	XH3B-5041-1A	XH3B-5041-3A	XH3B-5041-4A	XH3B-5042-A
60	XH3B-6041	XH3B-6041-A	XH3B-6041-1A	XH3B-6041-3A	XH3B-6041-4A	XH3B-6042-A
68	XH3B-6841	XH3B-6841-A	XH3B-6841-1A	XH3B-6841-3A	XH3B-6841-4A	XH3B-6842-A
80	XH3B-8041	XH3B-8041-A	XH3B-8041-1A	XH3B-8041-3A	XH3B-8041-4A	XH3B-8042-A
100	XH3B-0141	XH3B-0141-A	XH3B-0141-1A	XH3B-0141-3A	XH3B-0141-4A	XH3B-0142-A
120	XH3B-0241	XH3B-0241-A	XH3B-0241-1A	XH3B-0241-3A	XH3B-0241-4A	---

Note: Applicable board thickness is 1.6 mm.

Specifications

■ Ratings and Characteristics

Rated current	0.5 A
Rated voltage	125 VAC
Contact resistance (See note.)	30 mΩ max. (20 mV max., 100 mA max.)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength	650 VAC for 1 min (leakage current: 1 mA max.)
Overall insertion force	80 gf (0.78 N) max. per contact
Overall removal force	10 gf (0.10 N) min. per contact
Insertion tolerance	400 times
Ambient temperature	Operating: -55 to 105°C (with no icing)

Note: The contact resistance is for the XH3A-□□41 combined with the XH3B-□□41.

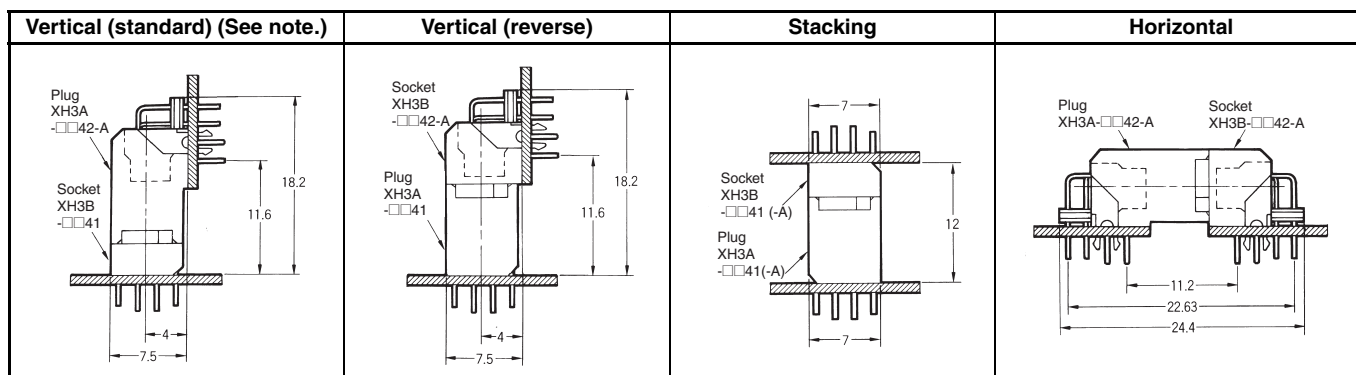
■ Materials and Finish

Item	Type	Plug	Socket
Housing		PBT resin with glass (UL94V-0)/gray	
Locator		PBT resin with glass (UL94V-0)/gray	
Contacts	Mating end	Phosphor bronze/nickel base, gold/palladium plating	
	Terminal	Phosphor bronze/nickel base, gold flash plating	
Fastening pins		Phosphor bronze/tin plating	

Engineering Data

■ Mating Diagram

Vertical/Horizontal/Stacking



Note: The function of the standard and reverse models is the same as that of the standard XC5 DIN Connectors.

Stacking Space Adjustable Models

Stacking space	12 mm	13 mm	14 mm	15 mm	16 mm
Mating diagram					
Stacking space	17 mm	18 mm	19 mm	20 mm	
Mating diagram					

Combinations

Plug	Socket	XH3B-□□41 XH3B-□□41-A	1-mm increment XH3B-□□41-1A	3-mm increments XH3B-□□41-3A	4-mm increments XH3B-□□41-4A
XH3A-□□41, XH3A-□□41-A		12 mm	13 mm	(15 mm) (See note.)	(16 mm) (See note.)
2-mm increment XH3A-□□41-2A		14 mm	15 mm	(17 mm) (See note.)	18 mm
4-mm increment XH3A-□□41-4A		16 mm	17 mm	19 mm	20 mm

Note: Combinations marked with parentheses should be avoided if possible.

Contact Numbers

Item	Mated diagram	Mounting holes (bottom view)
Plug, Straight Ter- minals		
Socket, Straight Ter- minals		

- Note:
- Contact numbers are not printed on the connectors. Use the triangular mark (▼) as a guide when designing and mounting to boards.
 - On the mating side, the row of terminals on the triangular mark side are called row a, and the row on the other side is called row b. The numbers are in the order shown.
 - The triangular marks on the plug and socket must be aligned when mated. The contact numbers on both sides must match.

Dimensions

■ XH3A - Plugs

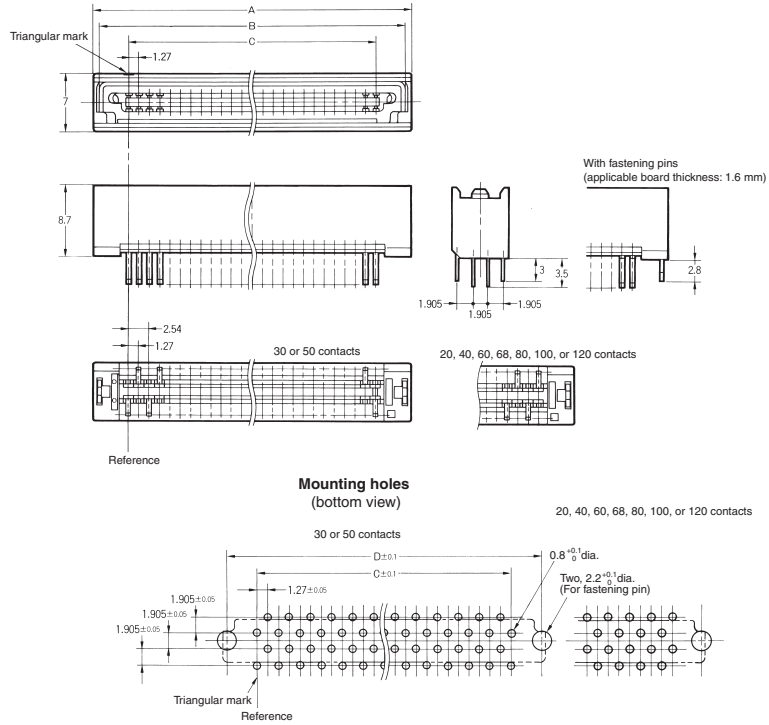
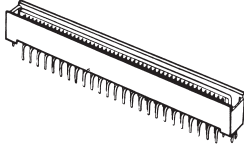
Straight Through-hole Terminals

XH3A-□□41

(without PCB Fastening Pins)

XH3A-□□41-A

(with Fastening Pins)



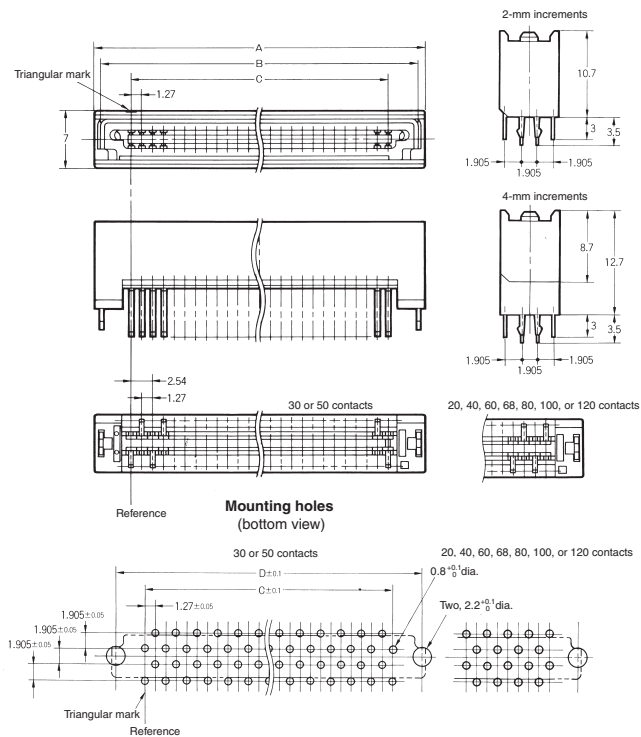
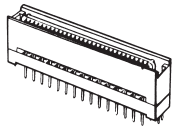
No. of contacts	Dimensions (mm)			
	A	B	C	D
20	20.0	18.7	11.43	18.54
30	26.4	25.1	17.78	24.89
40	32.7	31.4	24.13	31.24
50	39.1	37.8	30.48	37.59
60	45.4	44.1	36.83	43.94
68	50.5	49.2	41.91	49.02
80	58.1	56.8	49.53	56.64
100	70.8	69.5	62.23	69.34
120	83.5	82.2	74.93	82.04

Straight Through-hole Terminals, with Fastening Pin

Stacking Space Adjustable in Increments of 2 or 4 mm

XH3A-□□41-2A (2-mm Increments)

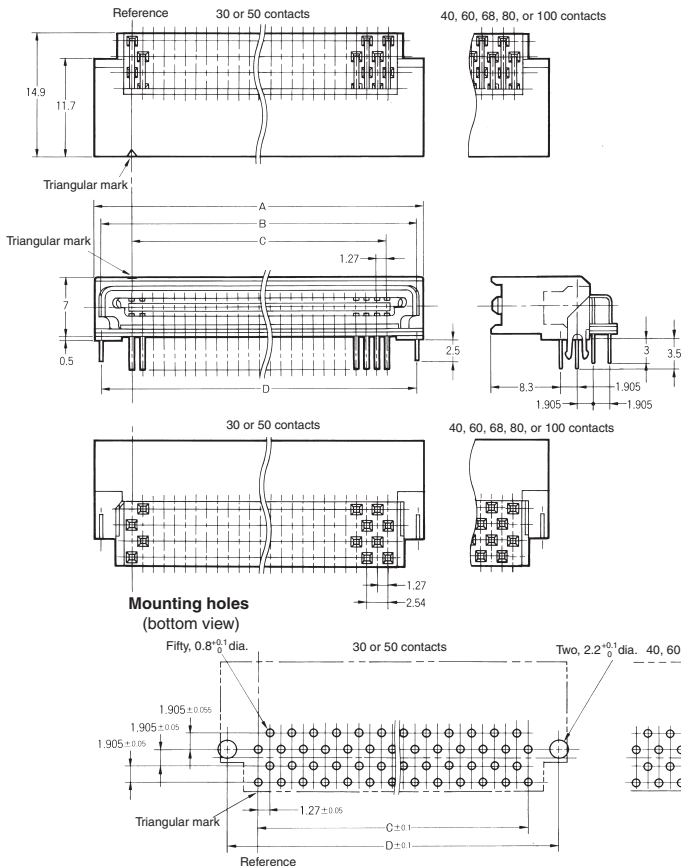
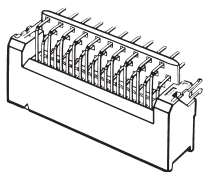
XH3A-□□41-4A (4-mm Increments)



No. of contacts	Dimensions (mm)			
	A	B	C	D
20	20.0	18.7	11.43	18.54
30	26.4	25.1	17.78	24.89
40	32.7	31.4	24.13	31.24
50	39.1	37.8	30.48	37.59
60	45.4	44.1	36.83	43.94
68	50.5	49.2	41.91	49.02
80	58.1	56.8	49.53	56.64
100	70.8	69.5	62.23	69.34
120	83.5	82.2	74.93	82.04

Right-angle Through-hole Terminals, with Fastening Pin

XH3A-□□42-A



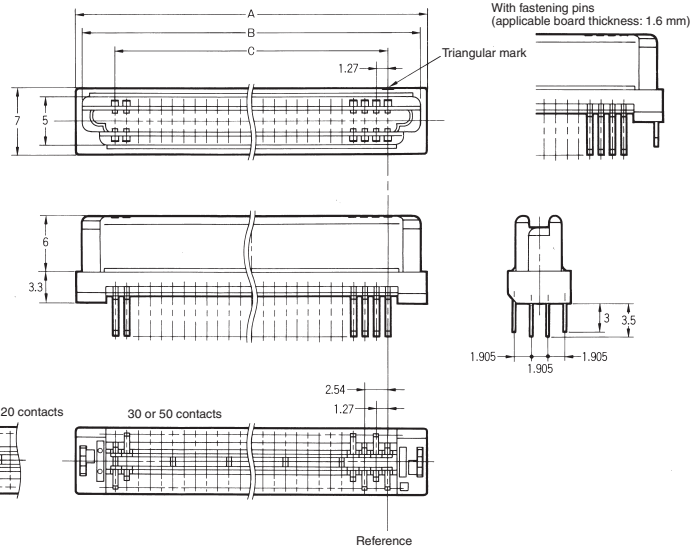
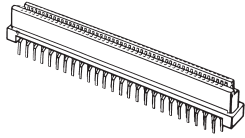
No. of contacts	Dimensions (mm)			
	A	B	C	D
30	26.4	25.1	17.78	24.89
40	32.7	31.4	24.13	31.24
50	39.1	37.8	30.48	37.59
60	45.4	44.1	36.83	43.94
68	50.5	49.2	41.91	49.02
80	58.1	56.8	49.53	56.64
100	70.8	69.5	62.23	69.34

XH3B - Socket

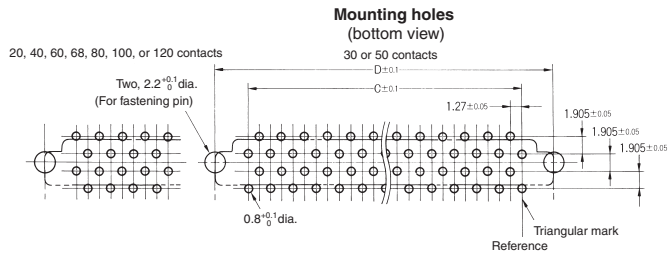
Straight Through-hole Terminals

XH3B-□□41
(without Fastening Pins)

XH3B-□□41-A
(with Fastening Pins)



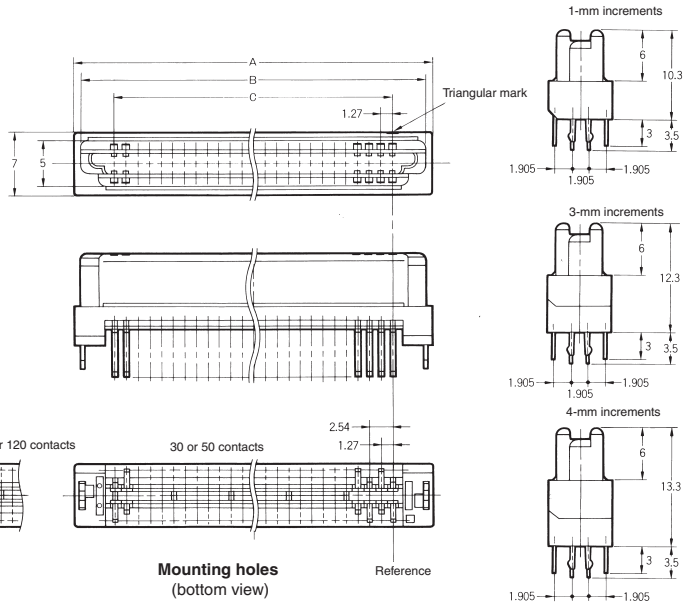
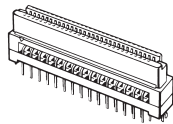
No. of contacts	Dimensions (mm)			
	A	B	C	D
20	20.0	18.6	11.43	18.54
30	26.4	25.0	17.78	24.89
40	32.7	31.3	24.13	31.24
50	39.1	37.7	30.48	37.59
60	45.4	44.0	36.83	43.94
68	50.5	49.1	41.91	49.02
80	58.1	56.7	49.53	56.64
100	70.8	69.4	62.23	69.34
120	83.5	82.1	74.93	82.04



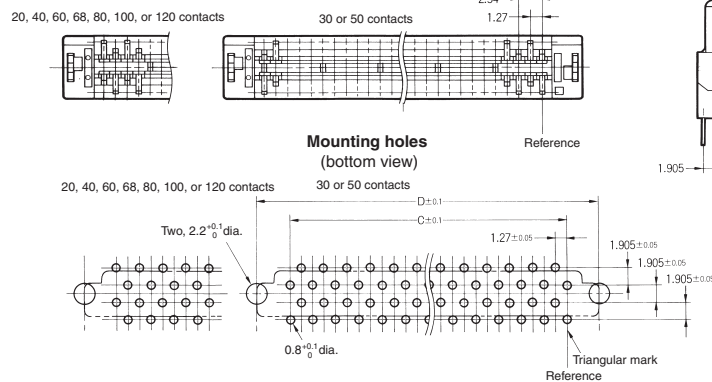
Straight Through-hole DIP Terminals, with Fastening Pin

Stacking Space Adjustable in Increments of 1, 3 or 4 mm

XH3B-□□41-1A (1-mm Increment)
XH3B-□□41-3A (3-mm Increments)
XH3B-□□41-4A (4-mm Increments)

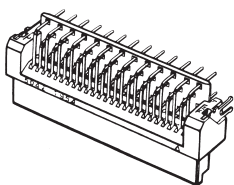


No. of contacts	Dimensions (mm)			
	A	B	C	D
20	20.0	18.6	11.43	18.54
30	26.4	25.0	17.78	24.89
40	32.7	31.3	24.13	31.24
50	39.1	37.7	30.48	37.59
60	45.4	44.0	36.83	43.94
68	50.5	49.1	41.91	49.02
80	58.1	56.7	49.53	56.64
100	70.8	69.4	62.23	69.34
120	83.5	82.1	74.93	82.04

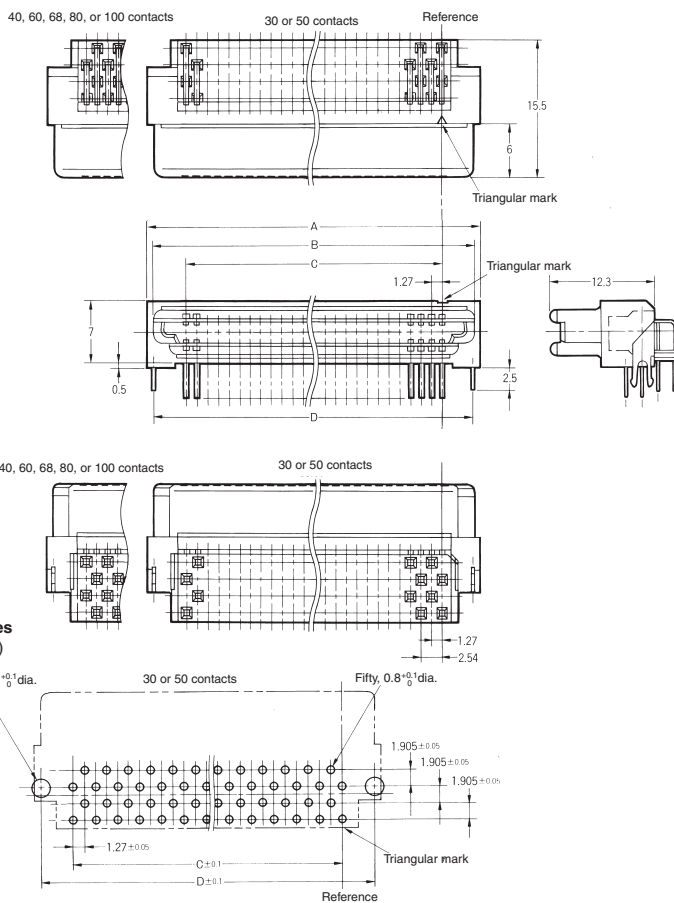


Right-angle Through-hole Terminals, with Fastening Pin

XH3B-□□42-A



No. of contacts	Dimensions (mm)			
	A	B	C	D
30	26.4	25.0	17.78	24.89
40	32.7	31.3	24.13	31.24
50	39.1	37.7	30.48	37.59
60	45.4	44.0	36.83	43.94
68	50.5	49.1	41.91	49.02
80	58.1	56.7	49.53	56.64
100	70.8	69.4	62.23	69.34



Precautions

Correct Use

Mating Compatibility

XH3 Half-pitch Connectors do not mate with XH2 or XH4 Half-pitch Connectors.

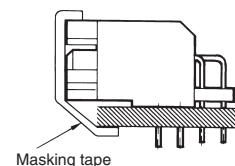
Special Finish for Preventing Flux Rise

XH3 Connectors (i.e., Straight Terminals and standard size, 1-, and 2-mm increments) have a special finish that prevents flux rise. (The Connectors are designed for automated soldering. Brush coating flux from the back of the board applies too much flux and may nullify the special finish. Never use this method to apply flux.)

Soldering

Automated soldering

Use tape to mask the Right-angle Terminal Connector prior to automated soldering.



Automated Soldering Conditions (Jet Flow)

1. Soldering temperature: 250 \pm 5 $^{\circ}$ C
2. Continuous soldering time: Within 5 s (Be sure to wash the board after continuous soldering is completed.)

MEMO

A large grid of dashed lines for taking notes, with a vertical bar on the left side.

Omron Electronic Components, LLC

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- Definitions:** The words used herein are defined as follows.
 - Terms:** These terms and conditions
 - Seller:** Omron Electronic Components LLC and its subsidiaries
 - Buyer:** The buyer of Products, including any end user in section III through VI
 - Products:** Products and/or services of Seller
 - Including:** Including without limitation
- Offer; Acceptance:** These Terms are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating to the sale of Products by Seller. Seller hereby objects to any Terms proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
- Distributor:** Any distributor shall inform its customer of the contents after and including section III of these Terms.

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- Interest:** Seller, at its option, may charge Buyer 1.5% interest per month or the maximum legal rate, whichever is less, on any balance not paid within the stated terms.
- Orders:** Seller will accept no order less than 200 U.S. dollars net billing.
- Currencies:** If the prices quoted herein are in a currency other than U.S. dollars, Buyer shall make remittance to Seller at the then current exchange rate most favorable to Seller; provided that if remittance is not made when due, Buyer will convert the amount to U.S. dollars at the then current exchange rate most favorable to Seller available during the period between the due date and the date remittance is actually made.
- Governmental Approvals:** Buyer shall be responsible for all costs involved in obtaining any government approvals regarding the importation or sale of the Products.
- Taxes:** All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Seller or required to be collected directly or indirectly by Seller for the manufacture, production, sale, delivery, importation, consumption or use of the Products sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Seller.
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- Force Majeure:** Seller shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
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 - All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Products shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Products until the full purchase price is paid by Buyer;
 - Delivery and shipping dates are estimates only; and
 - Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
- Claims:** Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier or any claim related to pricing or other charges must be presented in detail in writing to Seller within 30 days of receipt of shipment.

III. PRECAUTIONS

- Suitability:** IT IS THE BUYER'S SOLE RESPONSIBILITY TO ENSURE THAT ANY OMRON PRODUCT IS FIT AND SUFFICIENT FOR USE IN A MOTORIZED VEHICLE APPLICATION. BUYER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING APPROPRIATENESS OF THE PARTICULAR PRODUCT WITH RESPECT TO THE BUYER'S APPLICATION INCLUDING (A) ELECTRICAL OR ELECTRONIC COMPONENTS, (B) CIRCUITS, (C) SYSTEM ASSEMBLIES, (D) END PRODUCT, (E) SYSTEM, (F) MATERIALS OR SUBSTANCES OR (G) OPERATING ENVIRONMENT. Buyer acknowledges that it alone has determined that the Products will meet their requirements of the intended use in all cases. Buyer must know and observe all prohibitions of use applicable to the Product/s.
- Use with Attention:** The followings are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible use of any Product, nor to imply that any use listed may be suitable for any Product:
 - Outdoor use, use involving potential chemical contamination or electrical interference.

- Use in consumer Products or any use in significant quantities.
 - Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
 - Systems, machines, and equipment that could present a risk to life or property.
- Prohibited Use:** NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
 - Motorized Vehicle Application:** USE OF ANY PRODUCT/S FOR A MOTORIZED VEHICLE APPLICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY SELLER.
 - Programmable Products:** Seller shall not be responsible for the Buyer's programming of a programmable Product.

IV. WARRANTY AND LIMITATION

- Warranty:** Seller's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS.
- Buyer Remedy:** Seller's sole obligation hereunder shall be to replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product or, at Seller's election, to repay or credit Buyer an amount equal to the purchase price of the Product; provided that there shall be no liability for Seller or its affiliates unless Seller's analysis confirms that the Products were correctly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Seller before shipment.
- Limitation on Liability:** SELLER AND ITS AFFILIATES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY. FURTHER, IN NO EVENT SHALL LIABILITY OF SELLER OR ITS AFFILIATES EXCEED THE INDIVIDUAL PRICE OF THE PRODUCT ON WHICH LIABILITY IS ASSERTED.
- Indemnities:** Buyer shall indemnify and hold harmless Seller, its affiliates and its employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim, investigation, litigation or proceeding (whether or not Seller is a party) which arises or is alleged to arise from Buyer's acts or omissions under these Terms or in any way with respect to the Products.

V. INFORMATION; ETC.

- Intellectual Property:** The intellectual property embodied in the Products is the exclusive property of Seller and its affiliates and Buyer shall not attempt to duplicate it in any way without the written permission of Seller. Buyer (at its own expense) shall indemnify and hold harmless Seller and defend or settle any action brought against Seller to the extent that it is based on a claim that any Product made to Buyer specifications infringed intellectual property rights of another party.
- Property; Confidentiality:** Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Seller. All information and materials supplied by Seller to Buyer relating to the Products are confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and strictly prevent disclosure to any third party.
- Performance Data:** Performance data is provided as a guide in determining suitability and does not constitute a warranty. It may represent the result of Seller's test conditions, and the users must correlate it to actual application requirements.
- Change In Specifications:** Product specifications and descriptions may be changed at any time based on improvements or other reasons. It is Seller's practice to change part numbers when published ratings or features are changed, or when significant engineering changes are made. However, some specifications of the Product may be changed without any notice.
- Errors And Omissions:** The information on Seller's website or in other documentation has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.
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VI. MISCELLANEOUS

- Waiver:** No failure or delay by Seller in exercising any right and no course of dealing between Buyer and Seller shall operate as a waiver of rights by Seller.
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Certain Precautions on Specifications and Use

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 - (ii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
 - (iii) Use in consumer products or any use in significant quantities.
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5. **Errors and Omissions.** The information in this publication has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors, or omissions.
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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

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