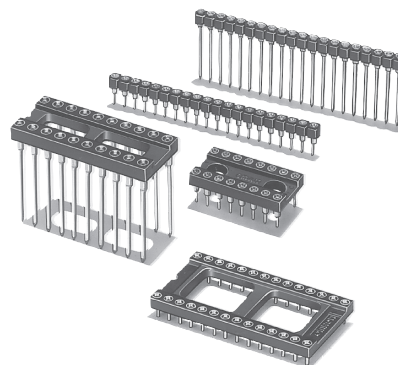
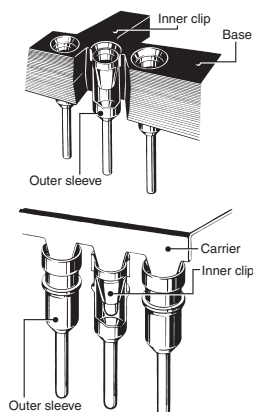


**OMRON's IC Connectors Have Excellent Reliability and Can Tolerate Momentary Interruptions in Power. Ideal for High-speed Data Processing.**

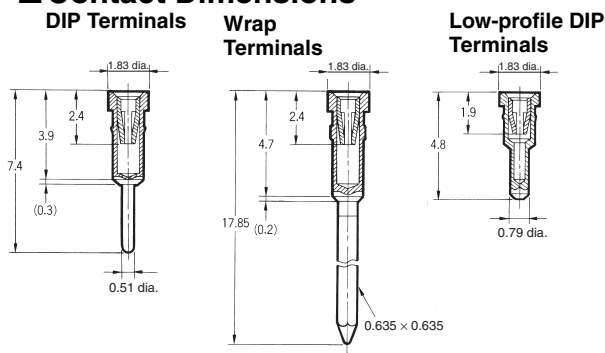
- Round pins and 4-point (4-finger) contact construction ensure long life and excellent shock and vibration durability.
- Contact entry holes are large for easy insertion.
- IC lead contacts placed high for solid connections.
- No flux rise.
- A wide product range: open-frame, closed-frame, single-row, carrier-type DIP terminals, wrap terminals, solder-sleeve terminals, and low-profile DIP terminals.
- A new tin-plated product series offers more choice when it comes to selecting the optimum IC Socket for an application.



### ■ Construction



### ■ Contact Dimensions



## ■ Ratings and Characteristics

| Item                          | Gold plated                                                       | Gold flash plated             |
|-------------------------------|-------------------------------------------------------------------|-------------------------------|
| Rated current                 | 1 A                                                               |                               |
| Rated voltage                 | 300 VAC                                                           |                               |
| Contact resistance            | 20 mΩ max. (at 20 mV, 100 mA max.)                                |                               |
| Insulation resistance         | 1,000 MΩ min. (at 500 VDC)                                        |                               |
| Dielectric strength           | 1,000 VAC for 1 min (leakage current: 1 mA max.)                  |                               |
| Insertion force (See note.)   | 3.92 N max.                                                       |                               |
| Removal force (See note.)     | 0.64 N min.                                                       |                               |
| Insertion durability          | 100 times (0.75-μm gold plating), 50 times (0.25-μm gold plating) | 20 times (gold flash plating) |
| Ambient operating temperature | – 55 to 125°C (with no condensation or icing)                     |                               |

**Note:** The contact insertion force and contact removal force are for a test gauge, t = 0.432 mm.

## ■ Materials and Finish

|                          |                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------|
| Base                     | PBT resin (UL94 V-0)/black                                                                    |
| Inner clip (See Note.)   | Beryllium copper/nickel base, gold plated<br>Beryllium copper/nickel base, gold flash plating |
| Outer sleeve (See Note.) | Brass/nickel base, gold flash plating                                                         |

**Note:** For non-standard plating, contact your OMRON representative.

## ■ Applicable Wrap Post Wire Sizes

AWG30, AWG28, AWG26, AWG24  
(Solid wire: 0.25 to 0.51 mm dia.)

## ■ Wrap Post Length

3 wires

## ■ Applicable IC Lead Dimensions

### DIP, and Wrap Terminals

|            | Depth × width (mm)                    |                |
|------------|---------------------------------------|----------------|
| Flat lead  | 0.29 ±0.09 × 0.46 ±0.08 (See note 1.) |                |
| Round lead | 0.53 dia. max.                        | 0.41 dia. min. |

### Low-profile DIP Terminals

|            | Depth × width (mm)                    |                |
|------------|---------------------------------------|----------------|
| Flat lead  | 0.29 ±0.09 × 0.46 ±0.08 (See note 2.) |                |
| Round lead | 0.50 dia. max.                        | 0.41 dia. min. |

**Note:** 1. Do not use wire where the diagonal is more than 0.56 mm.  
2. Do not use wire where the diagonal is more than 0.52 mm.  
3. IC lead length of 3 mm or more (If the lead terminal is too long, the IC may rise up.)

# XR2A Open-frame Sockets

## ■ Dimensions

(unit: mm)

XR2A-□□11-N

XR2A-2463-N

XR2A-2473-N

XR2A-□□01-N

XR2A-2461-N

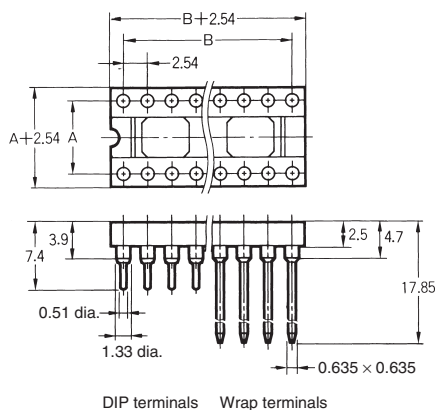
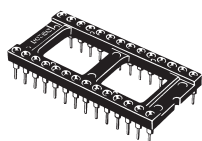
XR2A-2471-N

XR2A-□□21-N

XR2A-2467-N

XR2A-2477-N

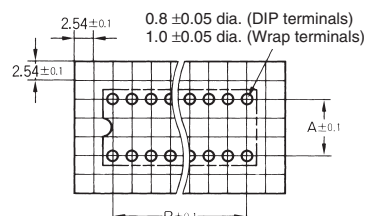
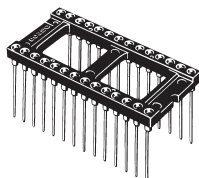
(With DIP terminals)



Mounting holes (bottom view)

XR2A-□□02

(With wrap terminals)



## Dimensions

| No. of contacts     | Dimensions (mm) |       |
|---------------------|-----------------|-------|
|                     | A               | B     |
| 8                   | 7.62            | 7.62  |
| 14                  | 7.62            | 15.24 |
| 16                  | 7.62            | 17.78 |
| 18                  | 7.62            | 20.32 |
| 20                  | 7.62            | 22.86 |
| 22                  | 10.16           | 25.40 |
| 24<br>(See note 1.) | 15.24           | 27.94 |
| 24<br>(See note 2.) | 10.16           | 27.94 |
| 24<br>(See note 3.) | 7.62            | 27.94 |
| 28                  | 15.24           | 33.02 |
| 32                  | 15.24           | 38.10 |
| 40                  | 15.24           | 48.26 |
| 42                  | 15.24           | 50.80 |
| 48                  | 15.24           | 58.42 |
| 50                  | 22.86           | 60.96 |
| 64                  | 22.86           | 78.74 |

- Note:** 1. XR2A-2401-N/XR2A-2402/  
XR2A-2411-N/XR2A-2421-N  
2. XR2A-2461-N/XR2A-2463-N/  
XR2A-2467-N  
3. XR2A-2471-N/XR2A-2473-N/  
XR2A-2477-N

## ■ Ordering Information

| Appearance     |                    | Sockets with DIP terminals |                           |                         | Sockets with wrap terminals |
|----------------|--------------------|----------------------------|---------------------------|-------------------------|-----------------------------|
|                |                    |                            |                           |                         |                             |
| No of contacts | Row pitch (A) (mm) | With 0.25-μm gold plating  | With 0.75-μm gold plating | With gold flash plating | With 0.75-μm gold plating   |
| 8              | 7.62               | XR2A-0811-N                | XR2A-0801-N               | XR2A-0821-N             | XR2A-0802                   |
| 14             | 7.62               | XR2A-1411-N                | XR2A-1401-N               | XR2A-1421-N             | XR2A-1402                   |
| 16             | 7.62               | XR2A-1611-N                | XR2A-1601-N               | XR2A-1621-N             | XR2A-1602                   |
| 18             | 7.62               | XR2A-1811-N                | XR2A-1801-N               | XR2A-1821-N             | XR2A-1802                   |
| 20             | 7.62               | XR2A-2011-N                | XR2A-2001-N               | XR2A-2021-N             | XR2A-2002                   |
| 22             | 10.16              | XR2A-2211-N                | XR2A-2201-N               | XR2A-2221-N             | XR2A-2202                   |
| 24             | 15.24              | XR2A-2411-N                | XR2A-2401-N               | XR2A-2421-N             | XR2A-2402                   |
| 24             | 10.16              | XR2A-2463-N                | XR2A-2461-N               | XR2A-2467-N             | ---                         |
| 24             | 7.62               | XR2A-2473-N                | XR2A-2471-N               | XR2A-2477-N             | ---                         |
| 28             | 15.24              | XR2A-2811-N                | XR2A-2801-N               | XR2A-2821-N             | XR2A-2802                   |
| 32             | 15.24              | XR2A-3211-N                | XR2A-3201-N               | XR2A-3221-N             | XR2A-3202                   |
| 40             | 15.24              | XR2A-4011-N                | XR2A-4001-N               | XR2A-4021-N             | XR2A-4002                   |
| 42             | 15.24              | XR2A-4211-N                | XR2A-4201-N               | XR2A-4221-N             | XR2A-4202                   |
| 48             | 15.24              | XR2A-4811-N                | XR2A-4801-N               | ---                     | XR2A-4802                   |
| 50             | 22.86              | XR2A-5011-N                | XR2A-5001-N               | ---                     | ---                         |
| 64             | 22.86              | XR2A-6411-N                | XR2A-6401-N               | ---                     | XR2A-6402                   |

# XR2A Open-frame Sockets (with Low-profile DIP Terminals)

## ■ Dimensions

(unit: mm)

XR2A-□□15

XR2A-2466

XR2A-2476

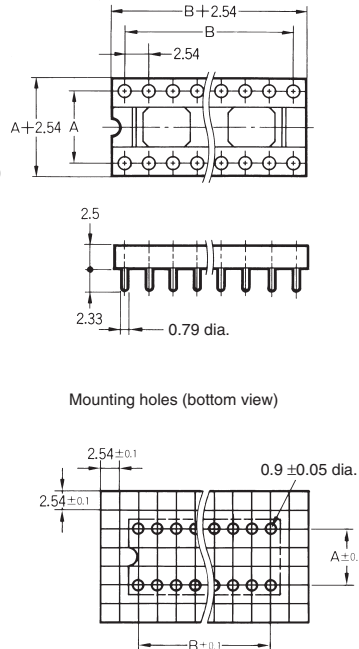
XR2A-□□05

XR2A-□□25

XR2A-2468

XR2A-2478

(With low-profile DIP terminals)



## Dimensions

| No. of contacts  | Dimensions (mm) |       |
|------------------|-----------------|-------|
|                  | A               | B     |
| 8                | 7.62            | 7.62  |
| 14               | 7.62            | 15.24 |
| 16               | 7.62            | 17.78 |
| 18               | 7.62            | 20.32 |
| 20               | 7.62            | 22.86 |
| 22               | 10.16           | 25.40 |
| 24 (See note 1.) | 15.24           | 27.94 |
| 24 (See note 2.) | 10.16           | 27.94 |
| 24 (See note 3.) | 7.62            | 27.94 |
| 28               | 15.24           | 33.02 |
| 32               | 15.24           | 38.10 |
| 40               | 15.24           | 48.26 |
| 42               | 15.24           | 50.80 |
| 48               | 15.24           | 58.42 |
| 64               | 22.86           | 78.74 |

**Note: 1.** XR2A-2415/XR2A-2405/  
XR2A-2425

**2.** XR2A-2466/XR2A-2468

**3.** XR2A-2476/XR2A-2478

## ■ Ordering Information

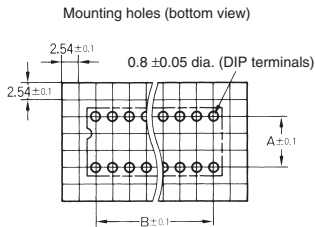
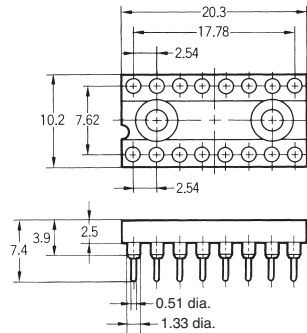
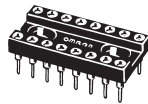
| Appearance      |                    | Sockets with DIP terminals |                           |                         |
|-----------------|--------------------|----------------------------|---------------------------|-------------------------|
|                 |                    |                            |                           |                         |
| No. of contacts | Row pitch (A) (mm) | With 0.25-μm gold plating  | With 0.75-μm gold plating | With gold flash plating |
| 8               | 7.62               | XR2A-0815                  | XR2A-0805                 | XR2A-0825               |
| 14              | 7.62               | XR2A-1415                  | XR2A-1405                 | XR2A-1425               |
| 16              | 7.62               | XR2A-1615                  | XR2A-1605                 | XR2A-1625               |
| 18              | 7.62               | XR2A-1815                  | XR2A-1805                 | XR2A-1825               |
| 20              | 7.62               | XR2A-2015                  | XR2A-2005                 | XR2A-2025               |
| 22              | 10.16              | XR2A-2215                  | XR2A-2205                 | XR2A-2225               |
| 24              | 15.24              | XR2A-2415                  | XR2A-2405                 | XR2A-2425               |
| 24              | 10.16              | XR2A-2466                  | ---                       | XR2A-2468               |
| 24              | 7.62               | XR2A-2476                  | ---                       | XR2A-2478               |
| 28              | 15.24              | XR2A-2815                  | XR2A-2805                 | XR2A-2825               |
| 32              | 15.24              | XR2A-3215                  | XR2A-3205                 | XR2A-3225               |
| 40              | 15.24              | XR2A-4015                  | XR2A-4005                 | XR2A-4025               |
| 42              | 15.24              | XR2A-4215                  | XR2A-4205                 | ---                     |
| 48              | 15.24              | XR2A-4815                  | XR2A-4805                 | ---                     |
| 64              | 22.86              | XR2A-6415                  | XR2A-6405                 | ---                     |

# XR2B Closed-frame Sockets

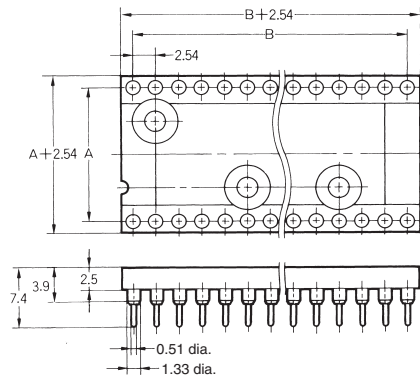
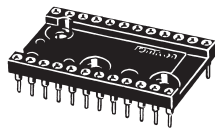
## ■ Dimensions

(unit: mm)

XR2B-1611-N  
XR2B-1601-N



XR2B-□□11-N  
XR2B-□□01-N



### Dimensions

| No. of contacts | Dimensions (mm) |       |
|-----------------|-----------------|-------|
|                 | A               | B     |
| 16              | 7.62            | 17.78 |
| 24              | 15.24           | 27.94 |
| 28              | 15.24           | 33.02 |
| 32              | 15.24           | 38.10 |
| 40              | 15.24           | 48.26 |

## ■ Ordering Information

| Appearance      |                    | Sockets with DIP terminals |                           |
|-----------------|--------------------|----------------------------|---------------------------|
|                 |                    |                            |                           |
| No. of contacts | Row pitch (A) (mm) | With 0.25-μm gold plating  | With 0.75-μm gold plating |
| 16              | 7.62               | XR2B-1611-N                | XR2B-1601-N               |
| 24              | 15.24              | XR2B-2411-N                | XR2B-2401-N               |
| 28              | 15.24              | XR2B-2811-N                | XR2B-2801-N               |
| 32              | 15.24              | XR2B-3211-N                | XR2B-3201-N               |
| 40              | 15.24              | XR2B-4011-N                | XR2B-4001-N               |

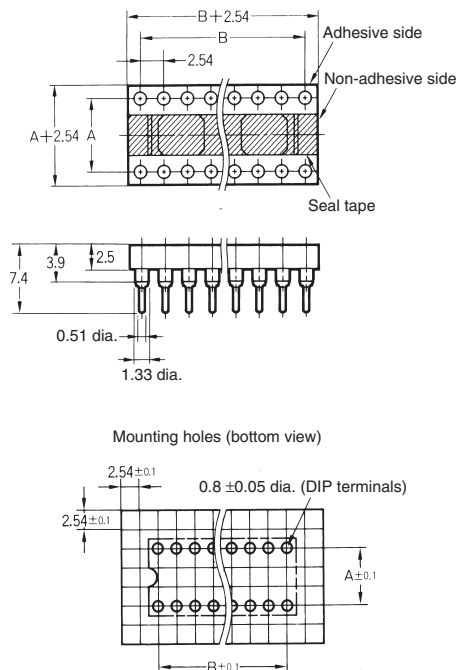
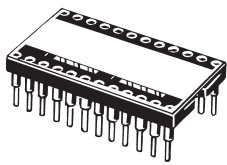
# XR2T Open-frame Sockets with Seal Tape

- Equipped with seal tape to prevent flux cleaning liquids from entering the Socket.
- The same round-pin, 4-point contact structure as the XR2A is used for the contacts.

## ■ Dimensions

(unit: mm)

XR2T-□□11-N  
 XR2T-2473-N  
 XR2T-□□01-N  
 XR2T-2471-N  
 XR2T-□□21-N  
 XR2T-2477-N

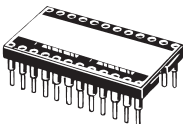


### Dimensions

| No. of contacts     | Dimensions (mm) |       |
|---------------------|-----------------|-------|
|                     | A               | B     |
| 8                   | 7.62            | 7.62  |
| 14                  | 7.62            | 15.24 |
| 16                  | 7.62            | 17.78 |
| 18                  | 7.62            | 20.32 |
| 20                  | 7.62            | 22.86 |
| 22                  | 10.16           | 25.40 |
| 24<br>(See note 1.) | 15.24           | 27.94 |
| 24<br>(See note 2.) | 7.62            | 27.94 |
| 28                  | 15.24           | 33.02 |
| 32                  | 15.24           | 38.10 |
| 40                  | 15.24           | 48.26 |
| 48                  | 15.24           | 58.42 |

- Note: 1.** XR2T-2411-N/XR2T-2401-N/  
 XR2A-2421-N  
**2.** XR2T-2473-N/XR2T-2471-N/  
 XR2T-2477-N

## ■ Ordering Information

| Appearance      |                    | Sockets with DIP terminals                                                          |                           |                         |
|-----------------|--------------------|-------------------------------------------------------------------------------------|---------------------------|-------------------------|
| No. of contacts | Row pitch (A) (mm) |  |                           |                         |
|                 |                    | With 0.25-μm gold plating                                                           | With 0.75-μm gold plating | With gold flash plating |
| 8               | 7.62               | XR2T-0811-N                                                                         | XR2T-0801-N               | XR2T-0821-N             |
| 14              | 7.62               | XR2T-1411-N                                                                         | XR2T-1401-N               | XR2T-1421-N             |
| 16              | 7.62               | XR2T-1611-N                                                                         | XR2T-1601-N               | XR2T-1621-N             |
| 18              | 7.62               | XR2T-1811-N                                                                         | XR2T-1801-N               | XR2T-1821-N             |
| 20              | 7.62               | XR2T-2011-N                                                                         | XR2T-2001-N               | XR2T-2021-N             |
| 22              | 10.16              | XR2T-2211-N                                                                         | XR2T-2201-N               | XR2T-2221-N             |
| 24              | 15.24              | XR2T-2411-N                                                                         | XR2T-2401-N               | XR2T-2421-N             |
| 24              | 7.62               | XR2T-2473-N                                                                         | XR2T-2471-N               | XR2T-2477-N             |
| 28              | 15.24              | XR2T-2811-N                                                                         | XR2T-2801-N               | XR2T-2821-N             |
| 32              | 15.24              | XR2T-3211-N                                                                         | XR2T-3201-N               | XR2T-3221-N             |
| 40              | 15.24              | XR2T-4011-N                                                                         | XR2T-4001-N               | XR2T-4021-N             |
| 48              | 15.24              | XR2T-4811-N                                                                         | XR2T-4801-N               | ---                     |

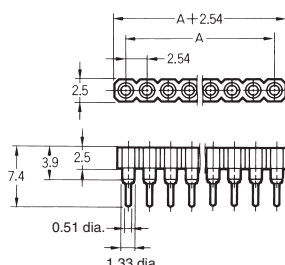
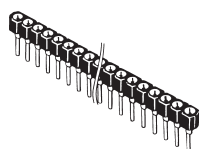
# XR2C Single-row Sockets

- The contact has a round-pin 4-point contact structure, which is the same as the XR2A series.
- The single-row type allows you set the pitch between lines freely.
- Components can easily be divided into a desired number of pins.

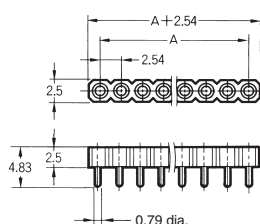
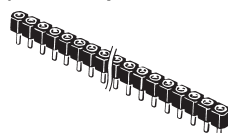
## ■ Dimensions

(unit: mm)

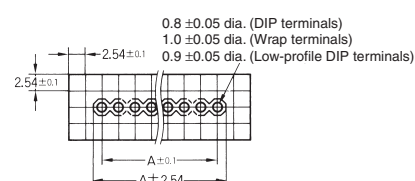
XR2C-□□11-N  
XR2C-□□01-N  
XR2C-□□21-N  
(With DIP terminals)



XR2C-□□15  
XR2C-□□05  
XR2C-□□25  
(With low-profile DIP terminals)



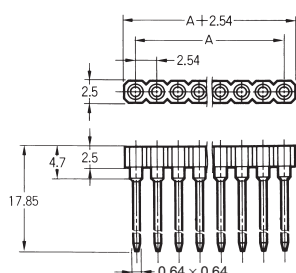
Mounting holes (bottom view)



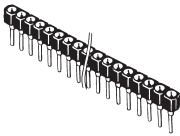
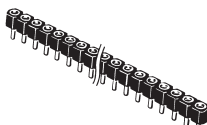
### Dimensions

| No. of contacts | A (mm) |
|-----------------|--------|
| 20              | 48.26  |
| 32              | 78.74  |

XR2C-□□02  
(With wrap terminals)



## ■ Ordering Information

| Appearance                                                                                                                    | No. of contacts | With 0.25-μm gold plating | With 0.75-μm gold plating | With gold flash plating |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------|---------------------------|-------------------------|
| Sockets with DIP terminals<br>             | 10              | XR2C-1011-N               | ---                       | ---                     |
|                                                                                                                               | 16              | XR2C-1611-N               | ---                       | ---                     |
|                                                                                                                               | 20              | XR2C-2011-N               | XR2C-2001-N               | XR2C-2021-N             |
|                                                                                                                               | 32              | XR2C-3211-N               | XR2C-3201-N               | XR2C-3221-N             |
| Sockets with low-profile DIP terminals<br> | 20              | XR2C-2015                 | XR2C-2005                 | XR2C-2025               |
|                                                                                                                               | 32              | XR2C-3215                 | XR2C-3205                 | XR2C-3225               |
| Sockets with wrap terminals<br>            | 20              | ---                       | XR2C-2002                 | ---                     |
|                                                                                                                               | 32              | ---                       | XR2C-3202                 | ---                     |

# XR2P Single-row Round Pin Plugs

## Single-row Round Pins for Low-profile Stacking

- Single row with 2.54-mm pitch.
- Low-profile stacking possible in combination with Single-row IC Sockets (XR2C).
- Easily divided into the desired number of contacts.

### ■ Ratings and Characteristics

|                                           |                                                     |
|-------------------------------------------|-----------------------------------------------------|
| <b>Rated current</b>                      | 1 A                                                 |
| <b>Rated voltage</b>                      | 300 VAC                                             |
| <b>Contact resistance<br/>(See note.)</b> | 20 mΩ max. (at 20 mV, 10 mA max.)                   |
| <b>Insulation resistance</b>              | 1,000 MΩ min. (at 500 VDC)                          |
| <b>Dielectric strength</b>                | 1,000 VAC for 1 min (leakage current:<br>1 mA max.) |
| <b>Ambient operating<br/>temperature</b>  | – 55 to 125°C (with no condensation or<br>icing)    |

**Note:** The contact and vibration resistance are the values when the Plug is mated with an XR2C.

### ■ Materials and Finish

|                 |                            |                                     |
|-----------------|----------------------------|-------------------------------------|
| <b>Base</b>     | PCT resin (UL94 V-0)/black |                                     |
| <b>Contacts</b> | <b>Mating end</b>          | Brass/nickel base with gold plating |
|                 | <b>Terminal</b>            |                                     |

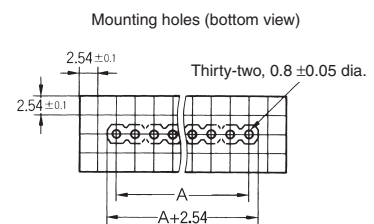
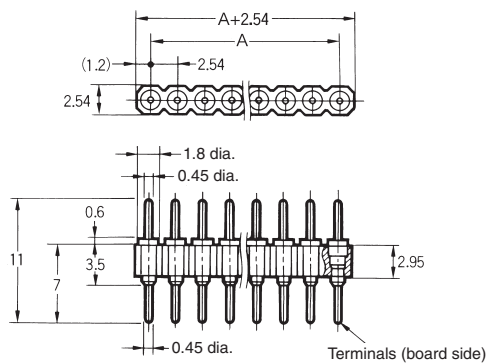
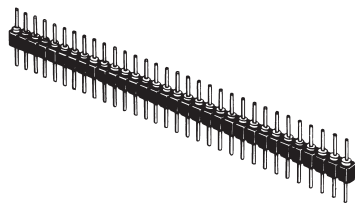
### ■ Applicable Sockets

|                    |                                     |
|--------------------|-------------------------------------|
| <b>XR2C-□□11-N</b> | IC Sockets (single row)             |
| <b>XR2C-□□□5</b>   | IC Socket (single row, low profile) |

### ■ Dimensions

(unit: mm)

#### XR2P-□□41 (With DIP straight terminals)



#### Dimensions

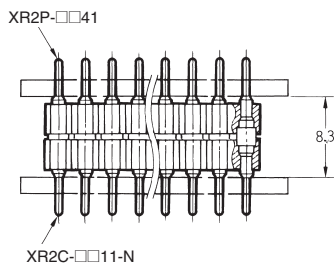
| No. of contacts | A (mm) |
|-----------------|--------|
| 10              | 22.86  |
| 16              | 38.1   |
| 20              | 48.26  |
| 32              | 78.74  |

#### Ordering Information

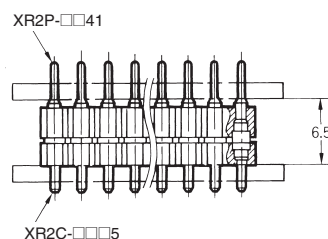
| No. of contacts | Model     |
|-----------------|-----------|
| 10              | XR2P-1041 |
| 16              | XR2P-1641 |
| 20              | XR2P-2041 |
| 32              | XR2P-3241 |

### ■ Mated Dimensions

#### XR2P-□□41 with XR2C-□□11-N Single-row IC Socket



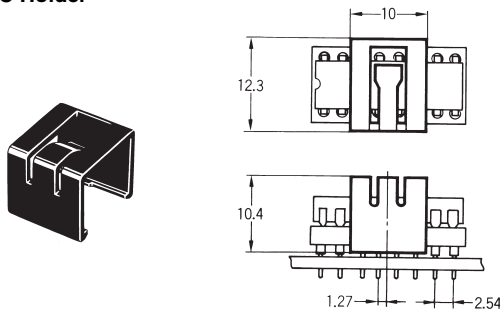
#### XR2P-□□41 with XR2C-□□□5 Single-row Low-profile IC Socket



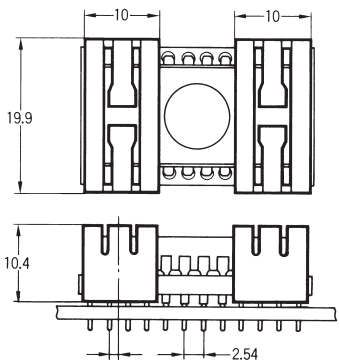
■ Tools and Accessories (Sold Separately)

(unit: mm)

XR2Z-11  
IC Holder



XR2Z-13



| Model   | No. of IC Socket contacts | IC socket width |
|---------|---------------------------|-----------------|
| XR2Z-11 | 14, 16, 18, 20, 24        | 7.62 mm         |
| XR2Z-13 | 24, 28, 32, 40, 42, 48    | 15.24 mm        |

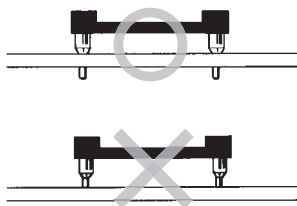
**Note:** This Holder protects the IC from falling out due to shock. The IC will not fall out even with a 980 m/s<sup>2</sup> shock. Applicable IC height: 2.7 to 5.6 mm.

■ Precautions

Correct Use

**Soldering**

- When soldering, make sure that the outer sleeve of the IC Socket does not stick out of the circuit board through-holes.



- Make sure that no flux enters the IC Socket from the top.

**Removing ICs**

- Do not use a screwdriver to remove the IC. It may damage the circuit board.
- Do not use a testing rod or check pin to check contacts or circuits. This may damage the inner clips or plating and may lead to improper contact.
- Four-point contact construction is used for plated products to make them more tolerant of momentary power interruptions. We recommend using gold-plated contacts in areas subject to vibration and shock.

**Automated Soldering Conditions (Jet Flow)**

- Soldering temperature: 250±5°C
- Continuous soldering time: Within 5±1 s

**Applicable IC Lead Dimensions**

- Use leads that are within the range shown here. For details, refer to page 2. Use an IC with leads longer than 3 mm. If the leads are too long, the IC will not sit flush on the board.
- Use an IC with tapered leads for easy insertion, a minimum amount of bending, and minimum damage to the leads.



## ■ Approval Standard

The approval rating values for overseas standards are different from the performance values determined individually. Confirm the values before use.

| Model       | Standard                          | File No. | Rating     |
|-------------|-----------------------------------|----------|------------|
| XR2A-□□11-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-2463-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-2473-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-□□01-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-2461-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-2471-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-□□21-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-2467-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-2477-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-□□02   | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-□□15   | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-2466   | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-2476   | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-□□05   | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-□□25   | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-2468   | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2A-2478   | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2B-□□11-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2B-□□01-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2T-□□11-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2T-2473-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2T-□□01-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2T-2471-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2T-□□21-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2T-2477-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2C-□□□1-N | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2C-□□□5   | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2C-□□□2   | UL certified product (Recognized) | E103202  | 300 V, 1 A |
| XR2P-□□41   | Non Approved Models               | ---      | ---        |
| XR2Z-□□     | Non Approved Models               | ---      | ---        |



Please check each region's Terms & Conditions by region website.

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Device & Module Solutions Company

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