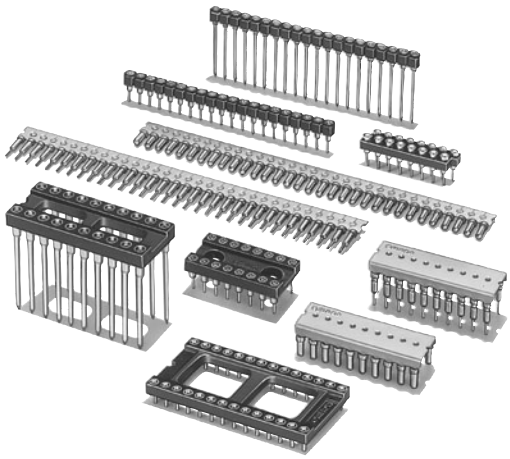
OMRON

IC Sockets

XR2

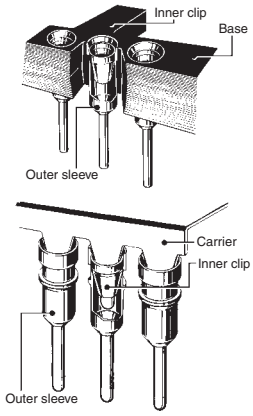
OMRON's IC Connectors Have Excellent Reliability and Can Tolerate Momentary Interruptions in Power. Ideal for High-speed Data Processing.



- 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.
- Conform to UL standards (file no. E 103202).

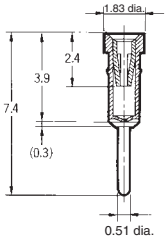
RoHS Compliant

■ Construction

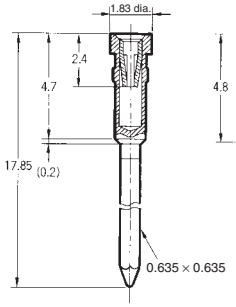


■ Contact Dimensions

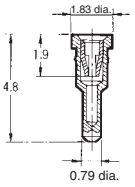
DIP Terminals



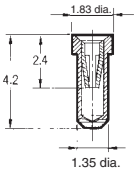
Wrap Terminals



Low-profile DIP Terminals



Solder-sleeve Terminals



■ Terminology

● **Carrier type**

Carrier type refers to products where only terminals are mounted by removing the carrier after mounting on the board.

● **Solder sleeve type**

Solder sleeve type refers to products with a board mounting height of 0.8 mm that can be used in locations with height restrictions.

■ 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	Operating: − 55 to 125°C (with no icing)	

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

■ Materials and Finish

Base	Fiber-glass reinforced PBT resin (UL94V-0)/ black
Carrier	Aluminum
Inner clip	Beryllium copper/nickel base, gold plated
	Beryllium copper/nickel base, gold flash plating
Outer sleeve	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, Wrap, and Solder-sleeve 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.

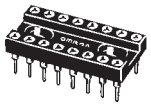
Note: 1. Do not use wire where the diagonal is more than 0.56 mm.
2. Do not use wire where the diagonal is more than 0.52 mm.
3. IC lead length of 3 mm or more (If the lead terminal is too long, the IC may rise up.)

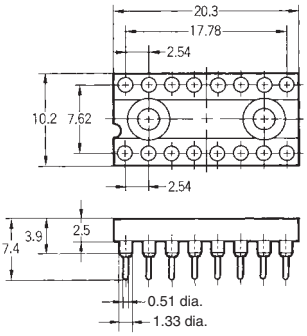
XR2B Closed-frame Sockets

■ Dimensions

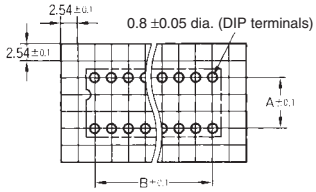
(unit: mm)

XR2B-1611-N
XR2B-1601-N

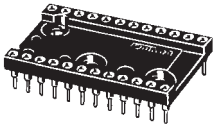


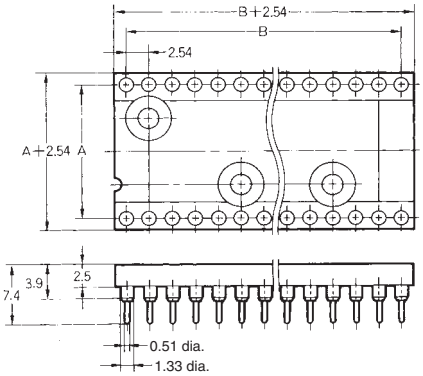


Mounting holes (bottom view)



XR2B-□□11-N
XR2B-□□01-N

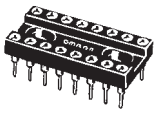




Dimensions

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