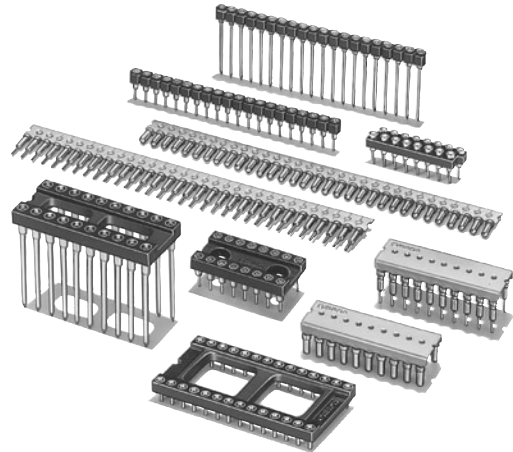


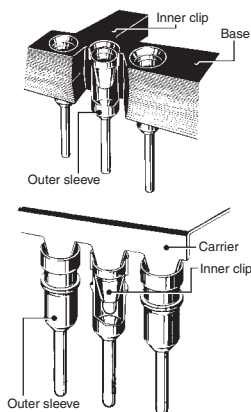
OMRON's IC Connectors Have Excellent Reliability and Can Tolerate Momentary Interruptions in Power. Ideal for High-speed Data Processing.

- 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).

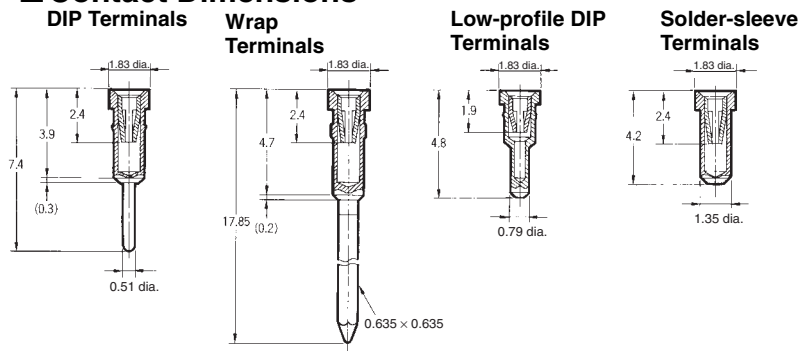


RoHS Compliant

■ Construction



■ Contact Dimensions



■ 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.)

XR2A Open-frame Sockets

■ Dimensions

(unit: mm)

XR2A-□□11-N

XR2A-2463-N

XR2A-2473-N

XR2A-□□01-N

XR2A-2461-N

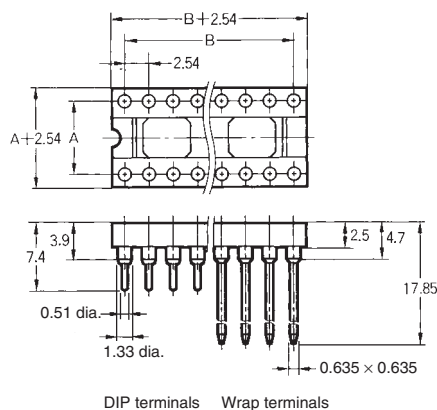
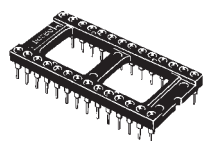
XR2A-2471-N

XR2A-□□21-N

XR2A-2467-N

XR2A-2477-N

(With DIP terminals)

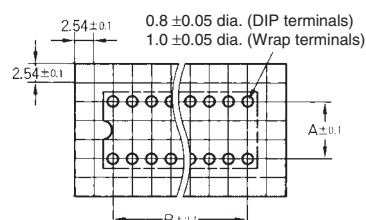
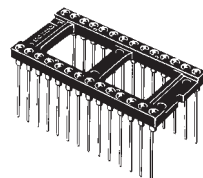


DIP terminals Wrap terminals

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 (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
50	22.86	60.96
64	22.86	78.74

- Note:** 1. XR2A-2401-N/XR2A-2402/
XR2A-2411N/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	XR2A-2472
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-2465

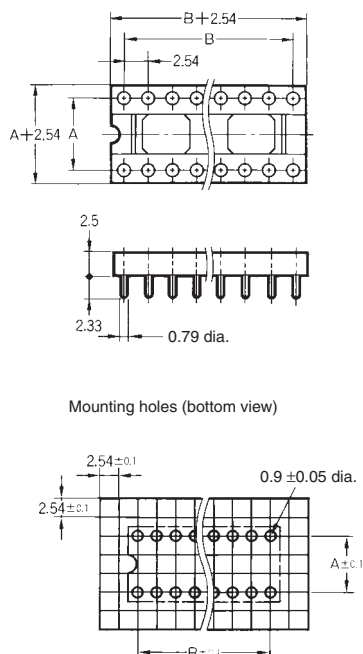
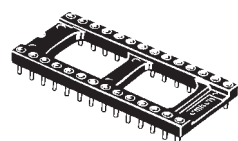
XR2A-2475

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-2465/
XR2A-2468

3. XR2A-2476/XR2A-2475/
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-2465	XR2A-2468
24	7.62	XR2A-2476	XR2A-2475	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	---

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