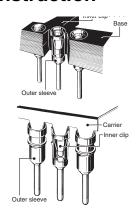


OMRON's IC Connectors Have Excellent Reliability and Can Tolerate Momentary Interruptions in Power.

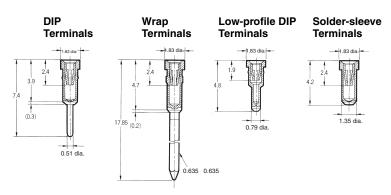
- Round pins and 4-point (4-finger) contact construction with contact entry holes that are large for easy insertion.
- IC lead contacts placed high for solid connections.
- A wide product range: open-frame, closed-frame, singlerow, carrier-type DIP terminals, wrap terminals, soldersleeve terminals, and low-profile DIP terminals.
- Conforms to UL standards (file no. E 103202) and CSA standards (file no. LR 62678).



■ Construction



■ Contact Dimensions



■ Ratings and Characteristics

Item	Gold plated	Gold flash plated	
Rated current	1 A		
Rated voltage	300 VAC		
Contact resistance	20 m Ω max. (at 20 mV, 100 m.	A max.)	
Insulation resistance	1,000 M Ω min. (at 500 VDC)		
Dielectric strength	1,000 VAC for 1 min (leakage current: 1 mA max.)		
Contact insertion (See note.)	400 gf (3.92 N) max.		
Contact removal (See note.)	65 gf (0.64 N) min. with gold plating or with solder plating		
Insertion durability	100 times (0.75- μ m gold plating), 50 times (0.25- μ m gold plating)	20 times	
Ambient 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
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.)	
Round lead	0.53 dia. max.	0.41 dia. min.

Note: Do not use wire where the diagonal is more than 0.56 mm.

Low-profile DIP Terminals

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

Note: Do not use wire where the diagonal is more than 0.52 mm.

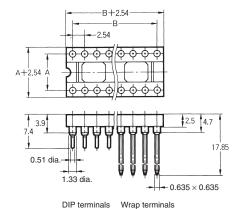
XR2A Open-frame Sockets

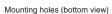
■ Dimensions

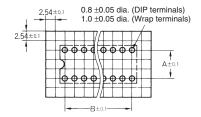
XR2A-□□11-N XR2A-2463-N XR2A-2473-N XR2A-□□01-N XR2A-2461-N XR2A-2471-N XR2A-□□21-N XR2A-2467-N XR2A-2477-N (With DIP terminals)











Dimensions

No. of contacts	Dimensions (mm)		
	Α	В	
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	

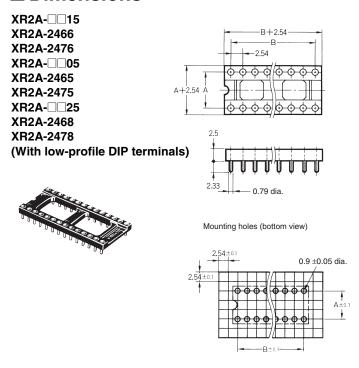
Note: 1. XR2A-2401-N/XR2A-2402/ XR2A-2411N/XR2A-2421-N

- **2.** XR2A-2461-N/XR2A-2463-N/ XR2A-2467-N
- **3.** XR2A-2471-N/XR2A-2473-N/ XR2A-2477-N

	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



Dimensions

No. of contacts	Dimensions (m	
	Α	В
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

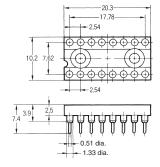
	Appearance	Sockets with DIP termin	als	
No. of contacts	Row pitch (A) (mm)	With 0.25-μm gold plating	With 0.75-μm gold plating	With gold flash plating
8	7.62	XR2A-0815	XR2A-0805	XR2A-0825
14	7.62	XR2A-1415	XR2A-1405	XR2A-1425
16	7.62	XR2A-1615	XR2A-1605	XR2A-1625
18	7.62	XR2A-1815	XR2A-1805	XR2A-1825
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	_

XR2B Closed-frame Sockets

■ Dimensions

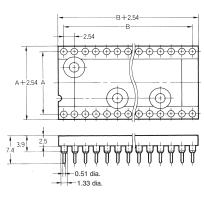
XR2B-1611-N XR2B-1601-N



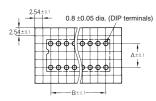


XR2B-□□11-N XR2B-□□01-N





Mounting holes (bottom view)



Dimensions

1	No. of contacts	Dimensions (mm)		
		Α	В	
	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	

Appearance		Sockets with DIP terminal	s
		11111	
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

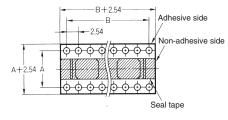
XR2T Open-frame Sockets with Seal Tape

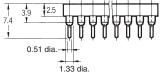
- Equipped with seal tape to prevent flux cleaning liquids from entering the Socket.
- The same round-pin, 4-point contact structure as the RX2A is used for the contacts.
- The seal tape is made of transparent polyethyle (adhesive portion) and yellow polypropolyene (non-adhesive portion).

■ Dimensions

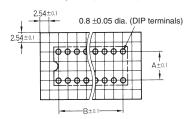
XR2T-□□11-N XR2T-2463-N XR2T-2473-N XR2T-□□01-N XR2T-2461-N XR2T-2471-N XR2T-□□21-N XR2T-2467-N XR2T-2477-N







Mounting holes (bottom view)



Dimensions

No. of contacts	Dimensions (mm)		
	Α	В	
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	
48	15.24	58.42	

Note: 1. XR2T-2411-N/XR2T-2401-N/ XR2A-2421-N

- **2.** XR2T-2463-N/XR2T-2461-N/ XR2T-2467-N
- 3. XR2T-2473-N/XR2T-2471-N/ XR2T-2477-N

	Appearance	Sockets with DIP termina	als	
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	10.16	XR2T-2463-N	XR2T-2461-N	XR2T-2467-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

■ Dimensions

XR2C-□□11-N XR2C-□□01-N XR2C-□□21-N

(With DIP terminals)



XR2C-□□15

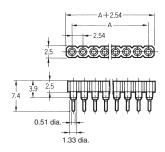
XR2C-□□05 XR2C-□□25

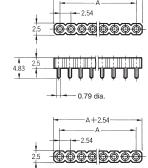
(With low-profile DIP terminals)



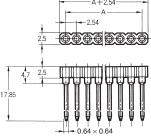
XR2C-□□02 (With wrap terminals)



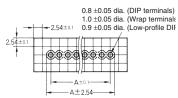




-A+2.54-



Mounting holes (bottom view)



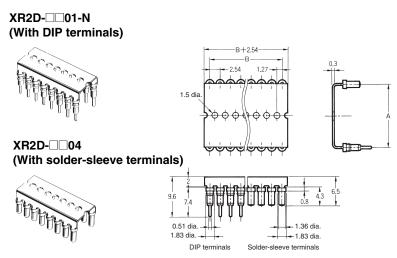
Dimensions

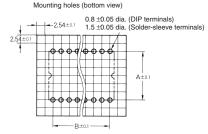
No. of contacts	A (mm)
20	48.26
32	78.74

Appearance	No. of contacts	With 0.25-μm gold plating	With 0.75-μm gold plating	With gold flash plating
Sockets with DIP terminals	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	20	XR2C-2015	XR2C-2005	XR2C-2025
	32	XR2C-3215	XR2C-3205	XR2C-3225
Sockets with wrap terminals	20	_	XR2C-2002	_
	32		XR2C-3202	_

XR2D Double-row Carrier Sockets

■ Dimensions





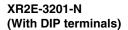
Dimensions

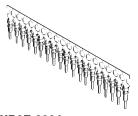
No. of contacts	Dimensions (mm)	
	Α	В
8	7.62	7.62
14	7.62	15.24
16	7.62	17.78
18	7.62	20.32
20	7.62	22.86
24	15.24	27.94
28	15.24	33.02
32	15.24	38.10
40	15.24	48.26

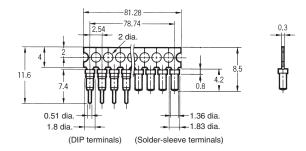
	Appearance	Sockets with DIP terminals	Sockets with solder-sleeve terminals
No. of contacts	Row pitch (A) (mm)	With 0.75-μm gold plating	With 0.75-μm gold plating
8	7.62	XR2D-0801-N	XR2D-0804
14	7.62	XR2D-1401-N	XR2D-1404
16	7.62	XR2D-1601-N	XR2D-1604
18	7.62	XR2D-1801-N	XR2D-1804
20	7.62	XR2D-2001-N	XR2D-2004
24	15.24	XR2D-2401-N	XR2D-2404
28	15.24	XR2D-2801-N	XR2D-2804
32	15.24	XR2D-3201-N	XR2D-3204
40	15.24	XR2D-4001-N	XR2D-4004

XR2E Single-row Carrier Sockets

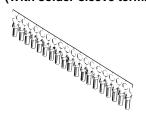
■ Dimensions

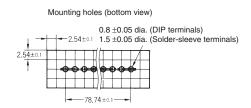






XR2E-3204 (With solder-sleeve terminals)





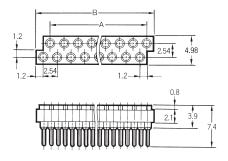
Appearance	Sockets with DIP Terminals	Sockets with Solder- sleeve Terminals
No. of contacts	With 0.75-μm gold plating	With 0.75-μm gold plating
32	XR2E-3201-N	XR2E-3204

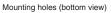
XR2H ZIP (Zigzag) Sockets

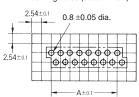
■ Dimensions

XR2H-□□11-N (With DIP terminals)









Dimensions

No. of	Dimensions (mm)	
contacts	Α	В
16	17.78	21.5
20	22.86	26.5
24	27.94	31.6
28	33.02	36.7

Appearance	Sockets with DIP terminals	
No. of contacts	With 0.25-μm gold plating	
16	XR2H-1611-N	
16 20	XR2H-1611-N XR2H-2011-N	

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

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

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

■ Materials and Finish

Base		Fiber-glass reinforced PBT resin (UL94V-0)/black
Contacts Mating end		Brass/nickel base with 0.25-μm gold plat-
	Terminal	ing

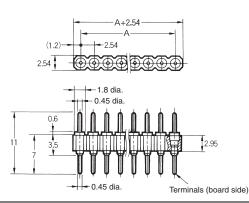
■ Applicable Sockets

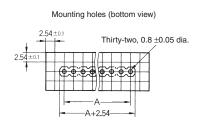
Ī	XR2C-□□11-N	IC Sockets (single row)
I	XR2C-3215	IC Socket (single row, low profile)

■ Dimensions

XR2P-□□41 (With DIP straight terminals)







Dimensions

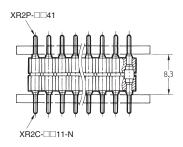
A (mm)
22.86
38.1
48.26
78.74

■ Ordering Information

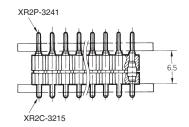
No. of contacts	Model
10	XR2P-1041
16	XR2P-1641
20	XR2P-2041
32	XR2P-3241

■ Mated Dimensions

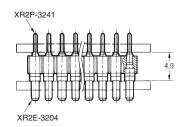
XR2P-□□41 with XR2C-□□11-N Single-row IC Socket



XR2P-3241 with XR2C-3215 Single-row Low-profile IC Socket



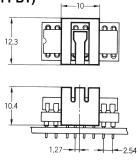
XR2P-3241 with XR2E-3204 Single-row Carrier Socket with Solder-sleeve Terminals



■ Tools and Accessories

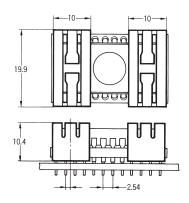
XR2Z-11 IC Holder (made from PBT)





XR2Z-13





Note: Order the following models in multiples of the minimum order.

Model	No. of IC Socket contacts	IC socket width	Order in multiples of
XR2Z-11	14, 16, 18, 20, 24	7.62 m	100
XR2Z-13	24, 28, 32, 40, 42, 48	15.24 mm	500

Note: This Holder protects the IC from falling out due to shock. The IC will not fall out even with a 980 m/s² shock. Applicable IC height: 2.7 to 5.6 mm.

XY2C-0101 XY2C-0103 IC Removal Tool



Model	No. of IC Socket contacts	IC socket width
XY2C-0101	14, 16, 18, 20	7.62 m
XY2C-0103	24, 28, 32, 40	15.24 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

- Use the XY2C-0101 or XY2C-0103 IC Removal Tool to remove 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 s

Applicable IC Lead Dimensions

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

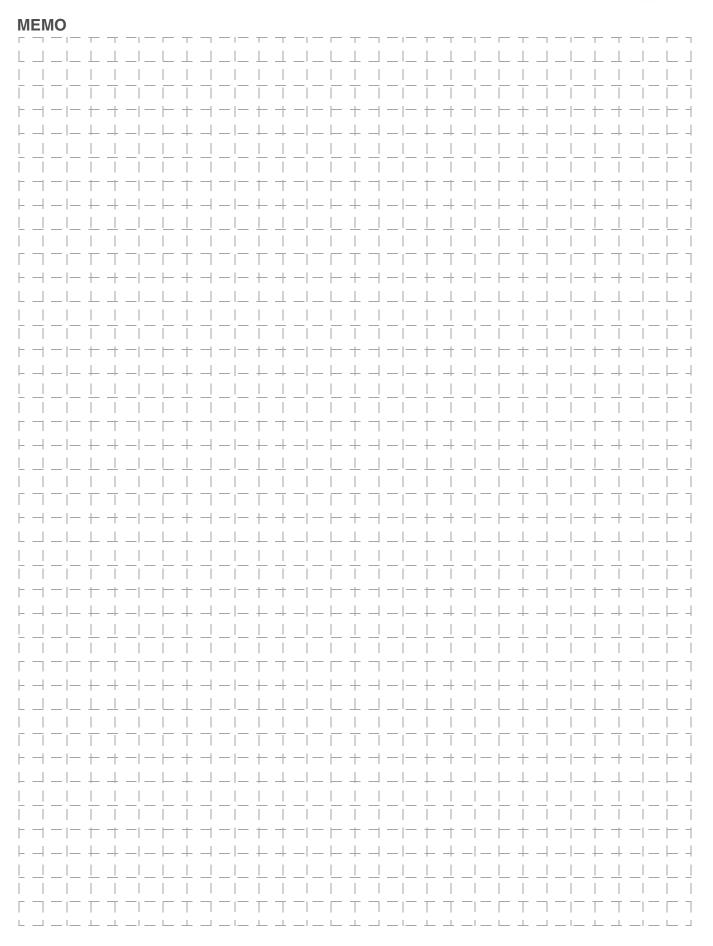












Omron Electronic Components, LLC

Terms and Conditions of Sales

I. GENERAL

Definitions: The words used herein are defined as follows.

Terms: These terms and conditions

(b) Seller: Omron Electronic Components LLC and its subsidiaries

The buyer of Products, including any end user in section III through VI Buyer: (c)

Products and/or services of Seller Products: 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
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To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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