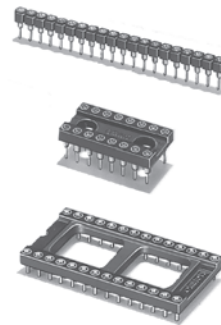
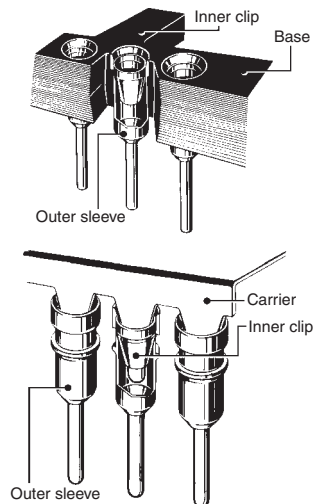


OMRON's IC Connectors Have Excellent Reliability and Can Tolerate Momentary Interruptions in Power. Ideal for High-speed Data Processing.

- 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, 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.

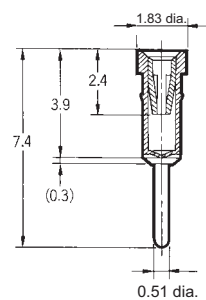


■ Construction

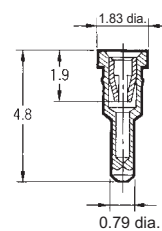


■ Contact Dimensions

DIP Terminals



Low-profile DIP Terminals



■ 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 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 IC Lead Dimensions

DIP 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

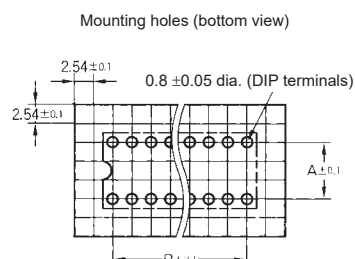
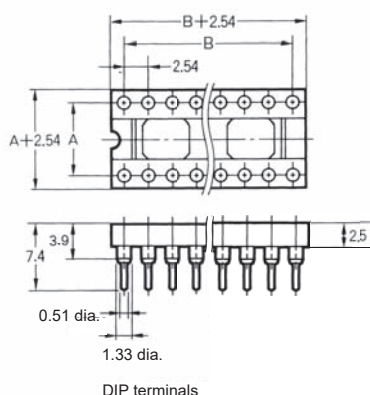
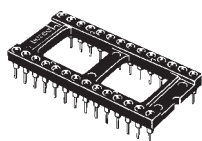
XR2A-2471-N

XR2A-□□21-N

XR2A-2467-N

XR2A-2477-N

(With DIP terminals)



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-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		
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-0811-N	XR2A-0801-N	XR2A-0821-N
14	7.62	XR2A-1411-N	XR2A-1401-N	XR2A-1421-N
16	7.62	XR2A-1611-N	XR2A-1601-N	XR2A-1621-N
18	7.62	XR2A-1811-N	XR2A-1801-N	XR2A-1821-N
20	7.62	XR2A-2011-N	XR2A-2001-N	XR2A-2021-N
22	10.16	XR2A-2211-N	XR2A-2201-N	XR2A-2221-N
24	15.24	XR2A-2411-N	XR2A-2401-N	XR2A-2421-N
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
32	15.24	XR2A-3211-N	XR2A-3201-N	XR2A-3221-N
40	15.24	XR2A-4011-N	XR2A-4001-N	XR2A-4021-N
42	15.24	XR2A-4211-N	XR2A-4201-N	XR2A-4221-N
48	15.24	XR2A-4811-N	XR2A-4801-N	---
50	22.86	XR2A-5011-N	XR2A-5001-N	---
64	22.86	XR2A-6411-N	XR2A-6401-N	---

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

■ Dimensions

(unit: mm)

XR2A-□□15

XR2A-2466

XR2A-2476

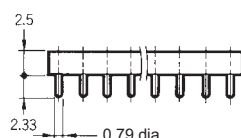
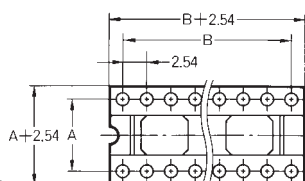
XR2A-□□05

XR2A-□□25

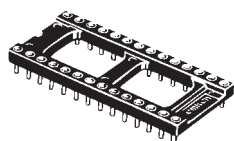
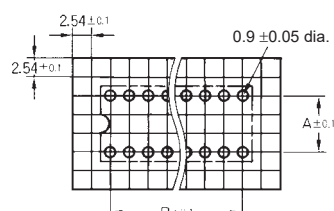
XR2A-2468

XR2A-2478

(With low-profile DIP terminals)



Mounting holes (bottom view)



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

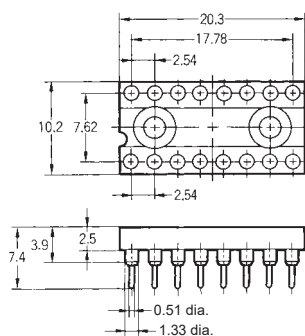
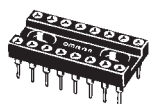
Appearance		Sockets with DIP terminals		
No. of contacts	Row pitch (A) (mm)	With 0.25-μm gold plating	With 0.75-μm gold plating	With gold flash plating
8	7.62	XR2A-0815	XR2A-0805	XR2A-0825
14	7.62	XR2A-1415	XR2A-1405	XR2A-1425
16	7.62	XR2A-1615	XR2A-1605	XR2A-1625
18	7.62	XR2A-1815	XR2A-1805	XR2A-1825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

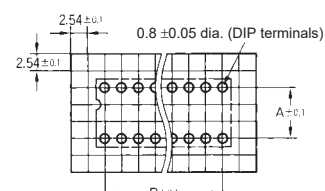
■ Dimensions

(unit: mm)

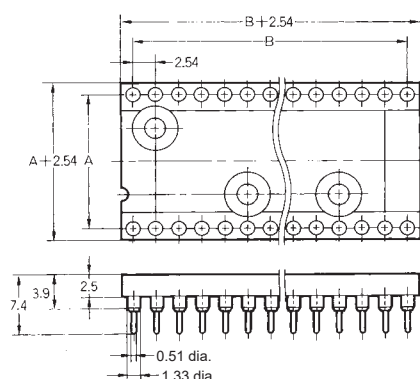
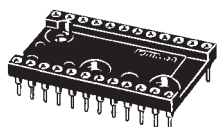
XR2B-1611-N
XR2B-1601-N



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

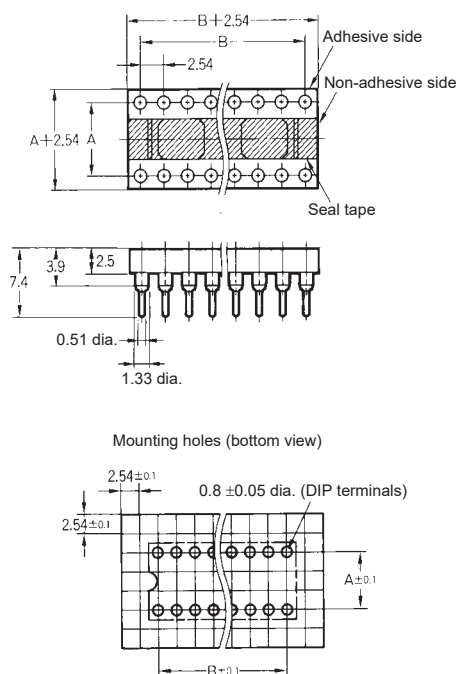
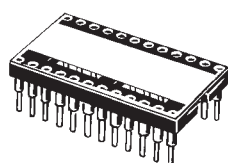
XR2T Open-frame Sockets with Seal Tape

- 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 (See note 1.)	15.24	27.94
24 (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	---

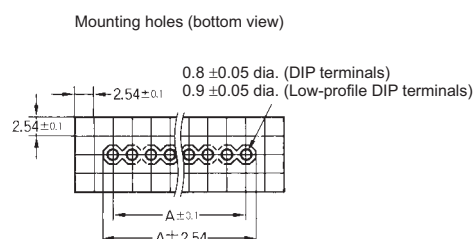
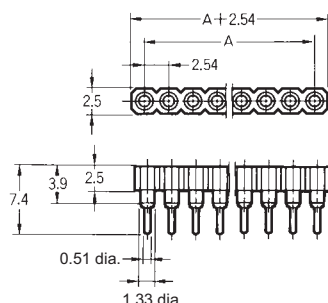
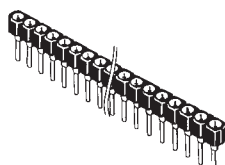
XR2C Single-row Sockets

- 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.

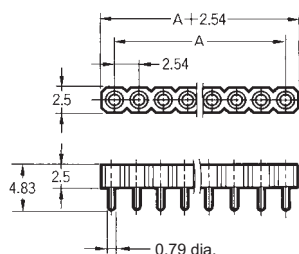
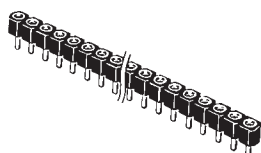
■ Dimensions

(unit: mm)

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



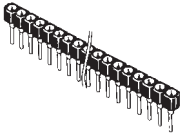
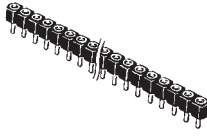
XR2C-□□15
XR2C-□□05
XR2C-□□25
(With low-profile DIP terminals)



Dimensions

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

■ 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 	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

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 condensation or icing)

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

■ Materials and Finish

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

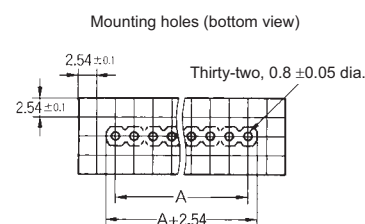
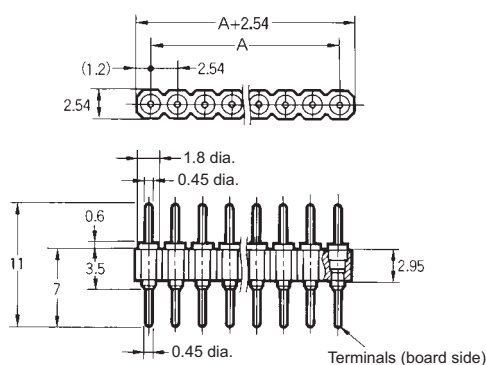
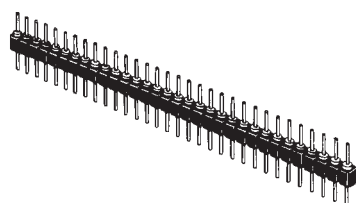
■ Applicable Sockets

XR2C-□□11-N	IC Sockets (single row)
XR2C-□□□5	IC Socket (single row, low profile)

■ Dimensions

(unit: mm)

XR2P-□□41 (With DIP straight terminals)



Dimensions

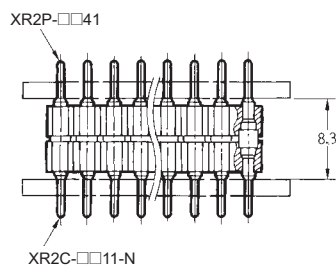
No. of contacts	A (mm)
10	22.86
16	38.1
20	48.26
32	78.74

Ordering Information

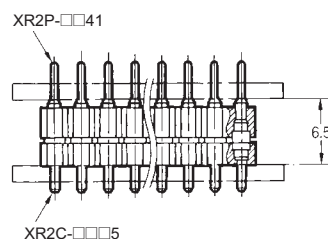
No. of contacts	Model
10	XR2P-1041
16	XR2P-1641
20	XR2P-2041
32	XR2P-3241

■ Mated Dimensions

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



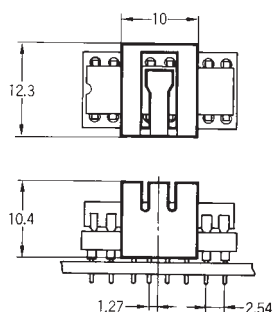
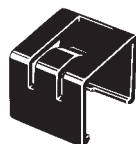
XR2P-□□41 with XR2C-□□□5 Single-row Low-profile IC Socket



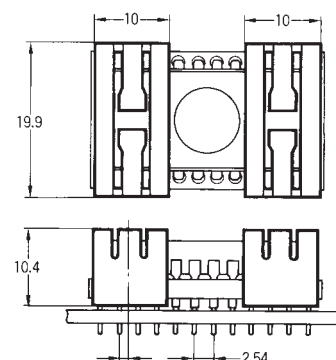
Tools and Accessories (Sold Separately)

(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

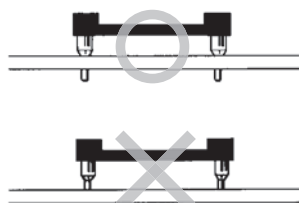
Note: This Holder protects the IC from falling out due to shock. The IC will not fall out even with a 980 m/s² shock. Applicable IC height: 2.7 to 5.6 mm.

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

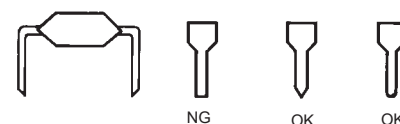
- Do not use a screwdriver to remove the IC. It may damage the circuit board.
- Do not use a testing rod or check pin to check contacts or circuits. This may damage the inner clips or plating and may lead to improper contact.
- Four-point contact construction is used for plated products to make them 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-□□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
XR2P-□□41	Non Approved Models	---	---
XR2Z-□□	Non Approved Models	---	---

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