



RỒNG VÀNG
TECHNOLOGY



J30 SERIES TWISTED PIN RECTANGULAR ELECTRICAL CONNECTORS MICRO D (plastic shell)

www.rong-vang-technology.vn



J30 series twisted pin micro rectangular electrical connectors



Product Introduction

Conforms to MIL-C-83513

Male pin is twist pin

High-density contact, spacing 1.27 mm

Plastic shell, equivalent to MD series

There are 8 specifications including 9 ~ 74 contacts

Application

The product has the advantages of high density, lightweight and miniaturization, which can realize the reliable interconnection of the electrical circuit system from cable to cable, cable to printed board, and between printed board and printed board

The product can withstand strong vibration, shock and other harsh operating environment, especially suitable for the use in space; equipment lightweight has special requirements for the use of the occasion

Specifications

Temperature rating: -55°C ~ +185°C

Contact rating: 3 A

Contact resistance: $\leq 10 \text{ m}\Omega$

Insulation resistance:

- Normal temperature: $\geq 5000 \text{ M}\Omega$;
- Damp heat temperature: $\geq 100 \text{ M}\Omega$;

Dielectric withstanding voltage: 800 V

Vibration: Frequency 10 ~ 2000 Hz acceleration 196 m/s^2

Shock: acceleration 735 m/s^2

Acceleration: 735 m/s^2

Endurance: 500 cycles

Recommended torque force for locking screws: 0.15 ~ 0.2 Nm is recommended for sizes 9 ~ 74

The compatible wire is $0.035 \text{ mm}^2 \sim 0.2 \text{ mm}^2$, $0.1 \text{ mm}^2 \sim 0.15 \text{ mm}^2$ recommended

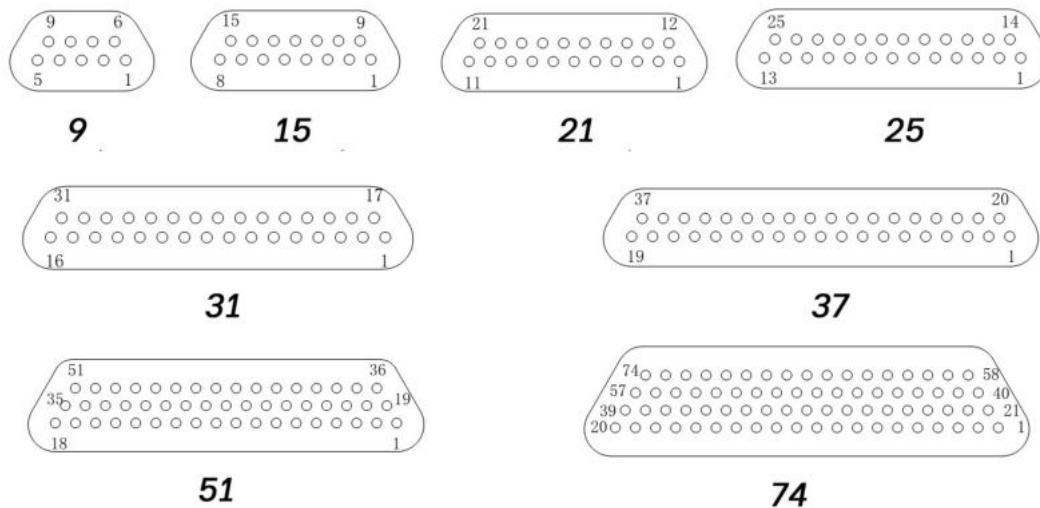
Type of wires default: AFR-250, white, 0.12 mm^2

J30 series twisted pin micro rectangular electrical connectors



Contact arrangement

(viewed from the insertion surface of the pin insulator)



Ordering information

Basic series	J30	-	25	TJ	(***)	(***)
Shell Type:						
Omit = standard version (Temperature range: up-65°C to +125°C)						
G = high temperature resistant (Temperature range: up-65°C to +178°C)						
Contact layouts: 9, 15, 21, 25, 31, 37, 51, 74						
Connector type:						
ZK = receptacle with sockets						
TJ = plug with pins						
Termination Type:						
Omit = Pre-Wired version						
N = Vertical Mount thru-hole, 2.54 Pitch Contact Spacing, formed PC tails						
N1 = Vertical Mount thru-hole, grid size 2.54 x 2.54, formed PC tails						
N-B = Vertical Mount thru-hole, grid size 1.10 x 1.27, Straight PC tails						
N-J = Vertical Mount thru-hole, grid size 1.27 x 2.54, formed PC tails						
W = Right Angle Mount thru-hole, grid size 2.54 x 2.54, formed PC tails						
W-J = Right Angle Mount thru-hole, grid size 1.27 x 2.54, formed PC tails						
Hardware Options (Hardware Types must be written in parentheses):						
Omit = No Hardware						
(See J30 Hardware components)						
Pre-Wired option (description must be written in parentheses)						

Hardware Type, Wire color and length index

If customers prefer any color and length of wires, please specify the color, cross-section and length

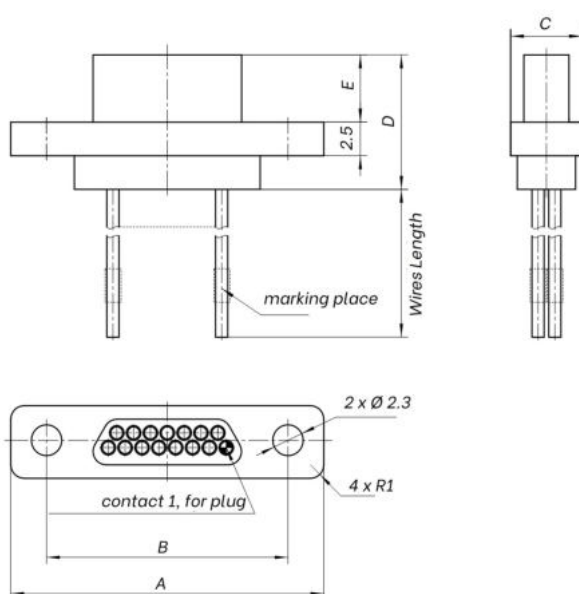
For example:

J30-25TJ (L600) = No Hardware, means that the wire in white insulation has a length of 600 mm, wire cross-section 0.12 mm²

J30-37ZK (21E6-040-022-B1)(blue, 0.15 mm², L400) = Hardware 21E6-040-022-B1 type, means that the wire in blue insulation has a length of 400 mm, wire cross-section 0.15 mm²

Dimensions

Pre-Wired Connectors



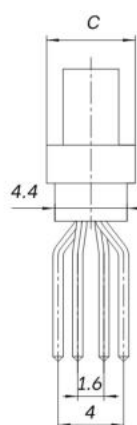
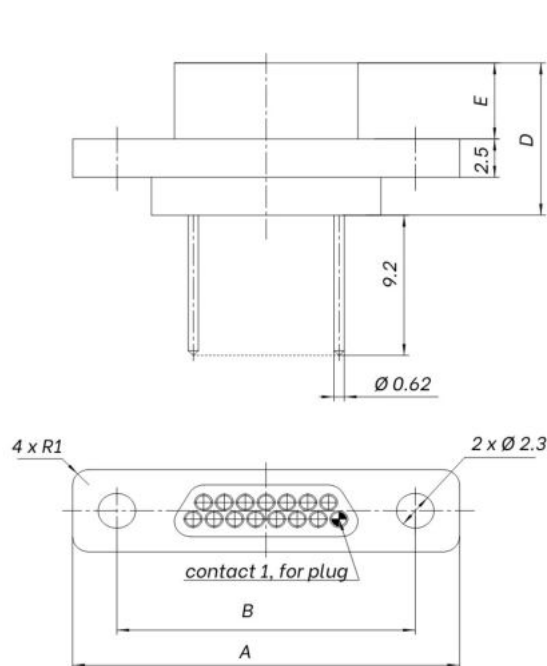
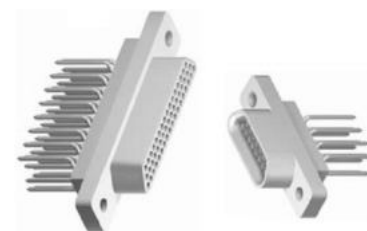
Connector type	A	B	C	D	E
J30-9TJ	19.6	14.3	5.4	10	5
J30-15TJ	23.5	18.2	5.4	10	5
J30-21TJ	27.4	22	5.4	10	5
J30-25TJ	29.8	24.5	5.4	10	5
J30-31TJ	33.7	28.3	5.4	10	5
J30-37TJ	37.5	32.2	5.4	10	5
J30-51TJ	36.3	30.8	6.5	10	5
J30-74TJ	38.8	33.5	7.6	10	5
J30-9ZK	19.6	14.3	5.4	9.5	4.4
J30-15ZK	23.5	18.2	5.4	9.5	4.4
J30-21ZK	27.4	22	5.4	9.5	4.4
J30-25ZK	29.8	24.5	5.4	9.5	4.4
J30-31ZK	33.7	28.3	5.4	9.5	4.4
J30-37ZK	37.5	32.2	5.4	9.5	4.4
J30-51ZK	36.3	30.8	6.5	9.5	4.4
J30-74ZK	38.8	33.5	7.6	9.5	4.4

J30 series twisted pin micro rectangular electrical connectors

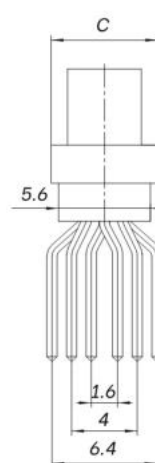


Dimensions

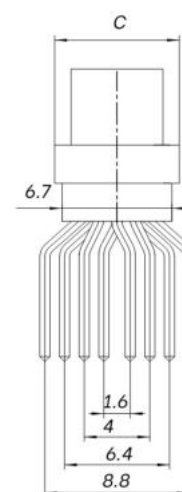
Vertical Mount thru-hole (N Type)



sizes 9 - 37



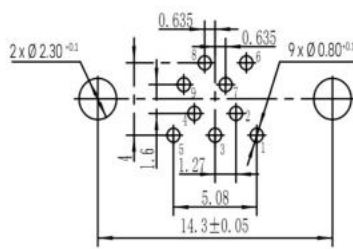
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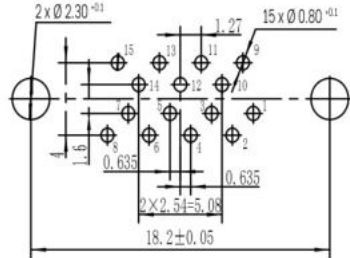
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Connector type	A	B	C	D	E
J30-9TJN	19.6	14.3	5.4	10	5
J30-15TJN	23.5	18.2	5.4	10	5
J30-21TJN	27.4	22	5.4	10	5
J30-25TJN	29.8	24.5	5.4	10	5
J30-31TJN	33.7	28.3	5.4	10	5
J30-37TJN	37.5	32.2	5.4	10	5
J30-51TJN	36.3	30.8	6.5	10	5
J30-74TJN	38.8	33.5	7.6	10	5
J30-9ZKN	19.6	14.3	5.4	9.5	4.4
J30-15ZKN	23.5	18.2	5.4	9.5	4.4
J30-21ZKN	27.4	22	5.4	9.5	4.4
J30-25ZKN	29.8	24.5	5.4	9.5	4.4
J30-31ZKN	33.7	28.3	5.4	9.5	4.4
J30-37ZKN	37.5	32.2	5.4	9.5	4.4
J30-51ZKN	36.3	30.8	6.5	9.5	4.4
J30-74ZKN	38.8	33.5	7.6	9.5	4.4

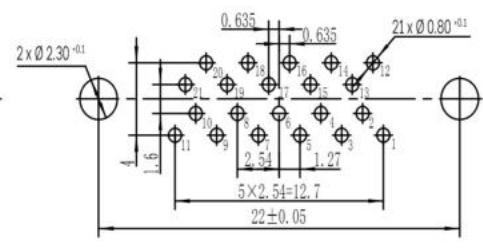
PCB Layouts



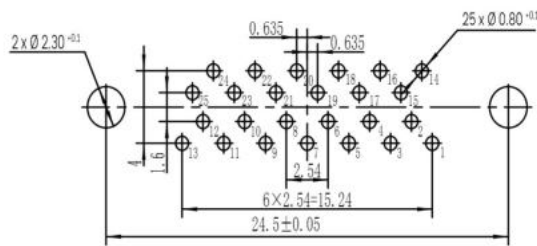
J30-9TJN



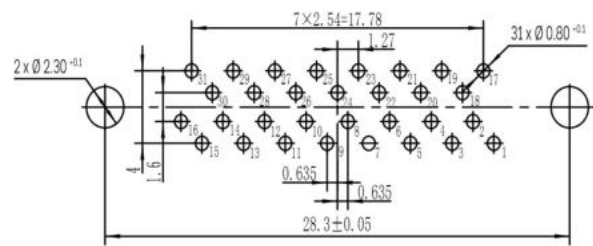
J30-15TJN



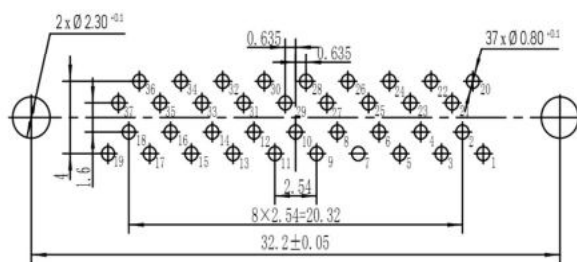
J30-21TJN



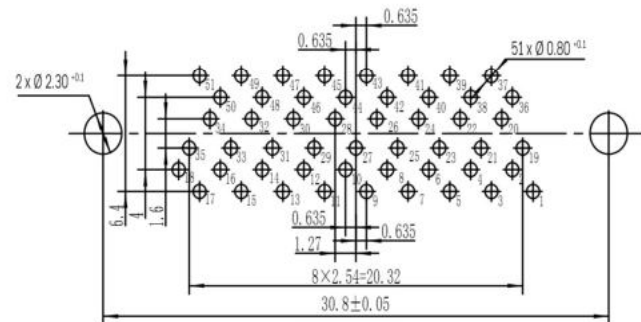
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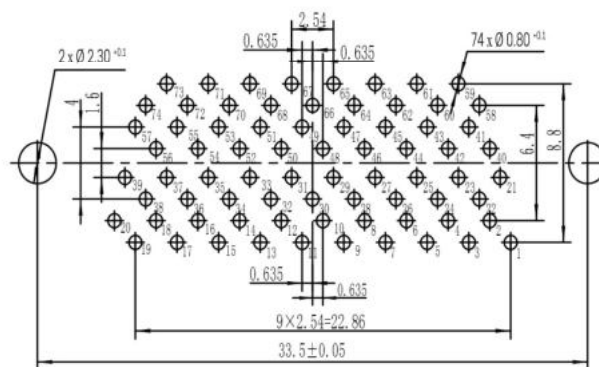
J30-31TJN



J30-37TJN



J30-51TJN

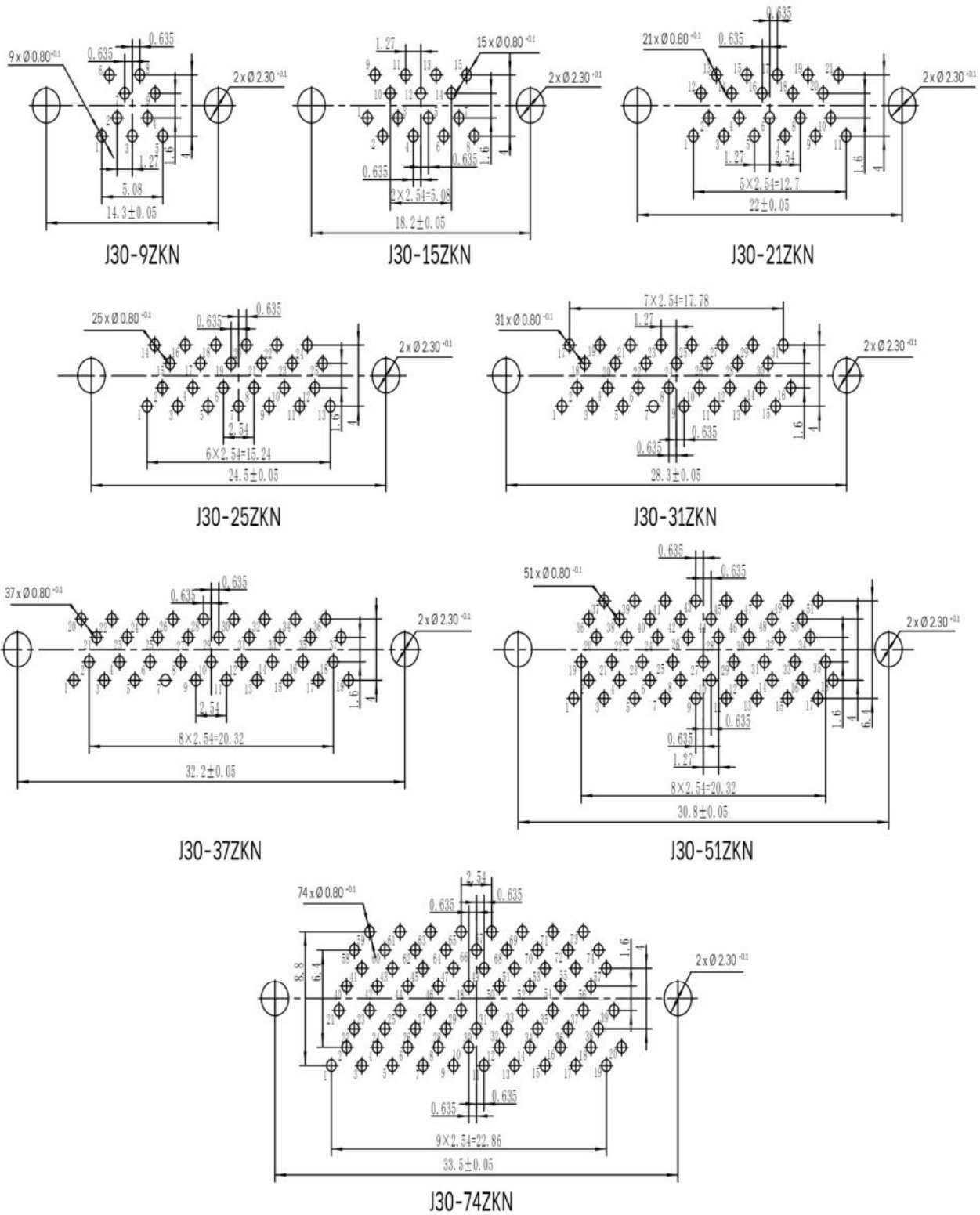


J30-74TJN

J30 series twisted pin micro rectangular electrical connectors



PCB Layouts

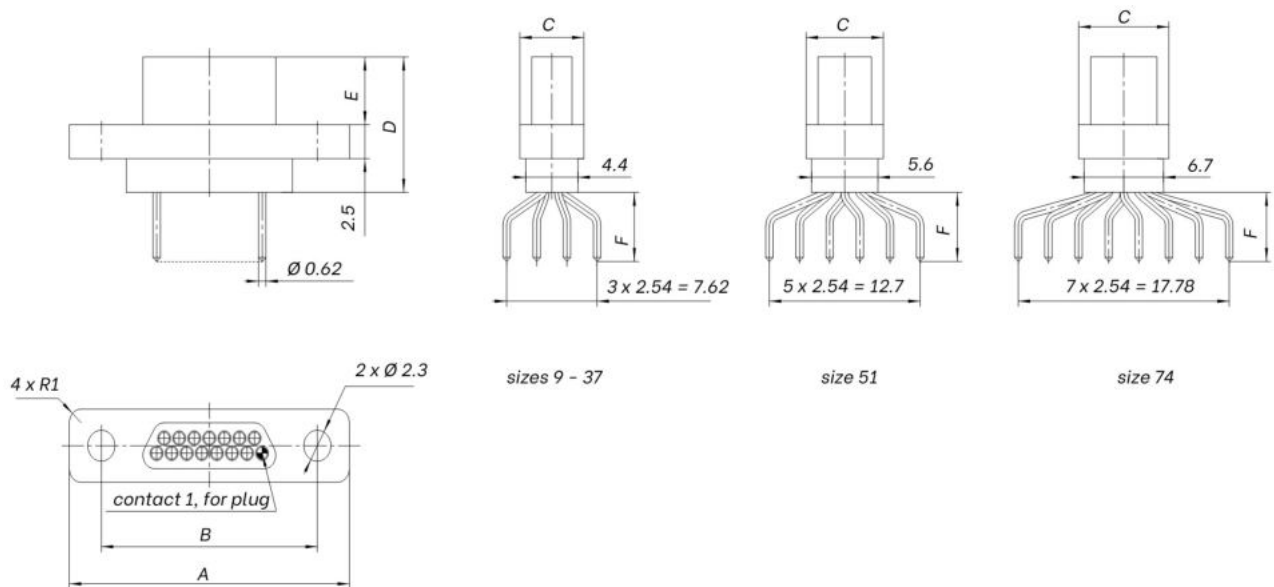
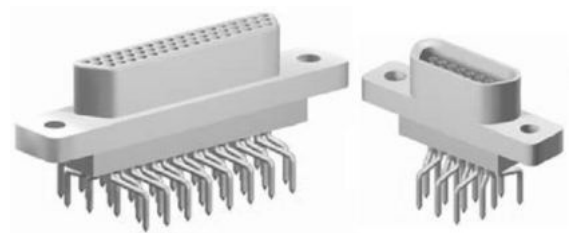




J30 series twisted pin micro rectangular electrical connectors

Dimensions

Vertical Mount thru-hole (N1 Type)

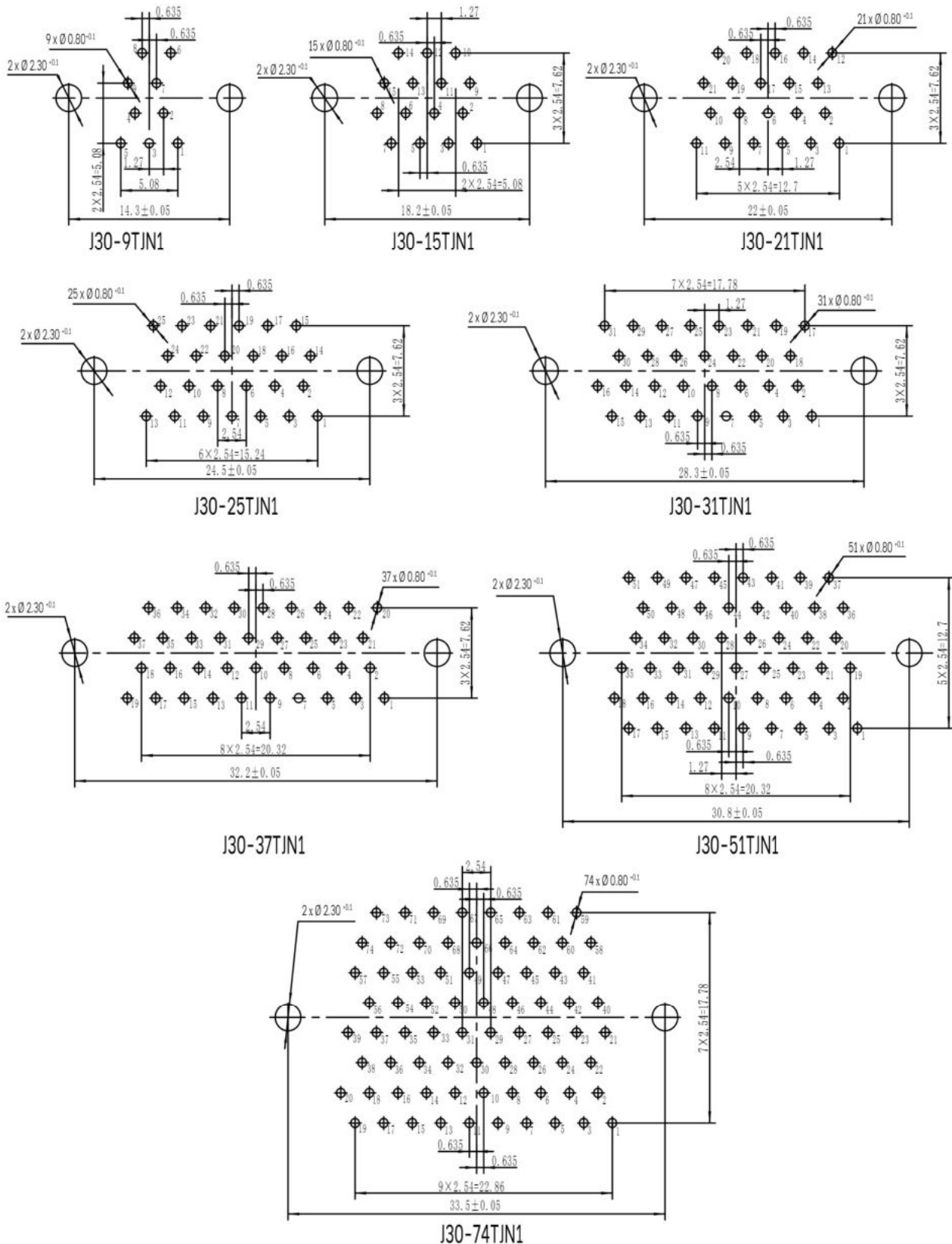


Connector type	A	B	C	D	E	F
J30-9TJN1	19.6	14.3	5.4	10	5	5.1
J30-15TJN1	23.5	18.2	5.4	10	5	5.1
J30-21TJN1	27.4	22	5.4	10	5	5.1
J30-25TJN1	29.8	24.5	5.4	10	5	5.1
J30-31TJN1	33.7	28.3	5.4	10	5	5.1
J30-37TJN1	37.5	32.2	5.4	10	5	5.1
J30-51TJN1	36.3	30.8	6.5	10	5	5.1
J30-74TJN1	38.8	33.5	7.6	10	5	5.1
J30-9ZKN1	19.6	14.3	5.4	9.5	4.4	6.9
J30-15ZKN1	23.5	18.2	5.4	9.5	4.4	6.9
J30-21ZKN1	27.4	22	5.4	9.5	4.4	6.9
J30-25ZKN1	29.8	24.5	5.4	9.5	4.4	6.9
J30-31ZKN1	33.7	28.3	5.4	9.5	4.4	6.9
J30-37ZKN1	37.5	32.2	5.4	9.5	4.4	6.9
J30-51ZKN1	36.3	30.8	6.5	9.5	4.4	5.3
J30-74ZKN1	38.8	33.5	7.6	9.5	4.4	5.3

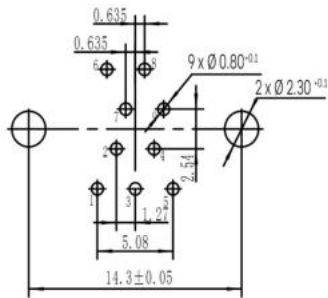
J30 series twisted pin micro rectangular electrical connectors



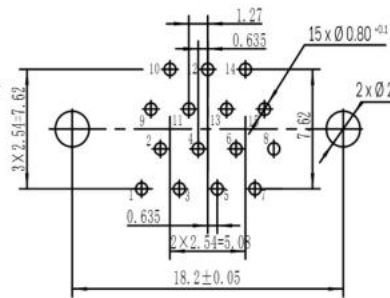
PCB Layouts



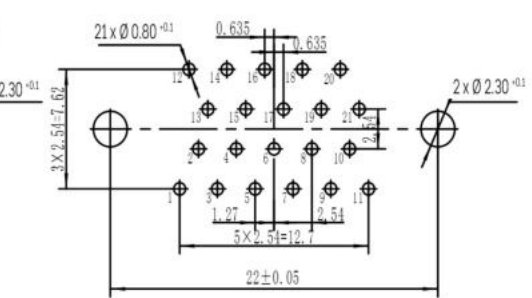
PCB Layouts



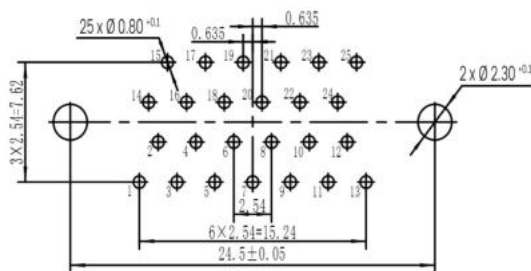
J30-9ZKN1



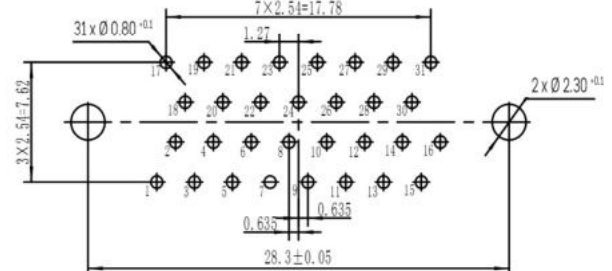
J30-15ZKN1



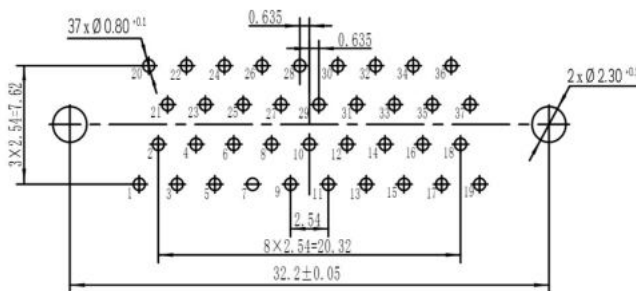
J30-21ZKN1



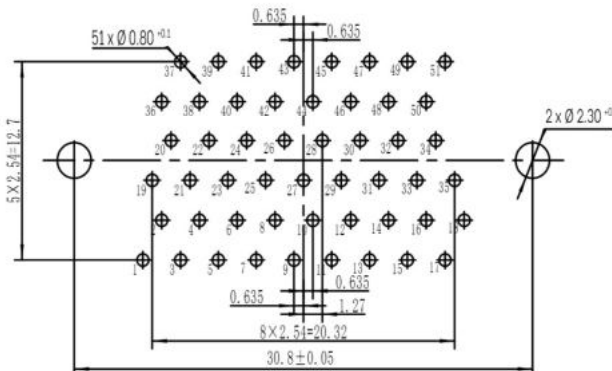
J30-25ZKN1



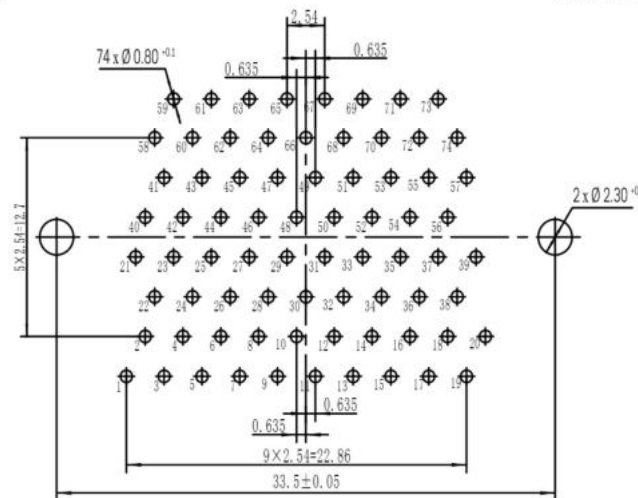
J30-31ZKN1



J30-37ZKN1



J30-51ZKN1



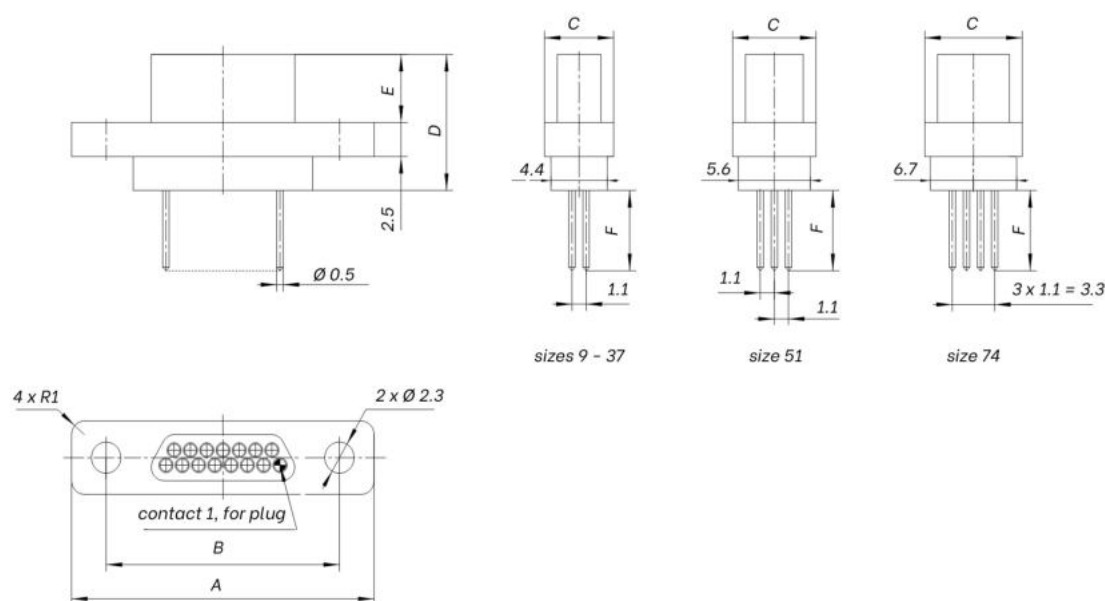
J30-74ZKN1

J30 series twisted pin micro rectangular electrical connectors



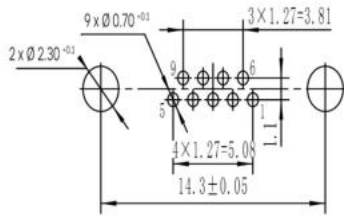
Dimensions

Vertical Mount thru-hole (N-B Type)

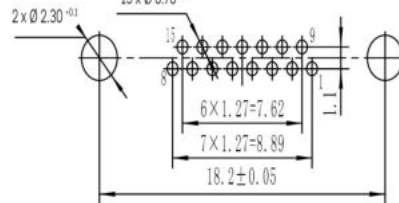


Connector type	A	B	C	D	E	F
J30-9TJN-B	19.6	14.3	5.4	10	5	5.9
J30-15TJN-B	23.5	18.2	5.4	10	5	5.9
J30-21TJN-B	27.4	22	5.4	10	5	5.9
J30-25TJN-B	29.8	24.5	5.4	10	5	5.9
J30-31TJN-B	33.7	28.3	5.4	10	5	5.9
J30-37TJN-B	37.5	32.2	5.4	10	5	5.9
J30-51TJN-B	36.3	30.8	6.5	10	5	5.9
J30-74TJN-B	38.8	33.5	7.6	10	5	5.9
J30-9ZKN-B	19.6	14.3	5.4	9.5	4.4	7.1
J30-15ZKN-B	23.5	18.2	5.4	9.5	4.4	7.1
J30-21ZKN-B	27.4	22	5.4	9.5	4.4	7.1
J30-25ZKN-B	29.8	24.5	5.4	9.5	4.4	7.1
J30-31ZKN-B	33.7	28.3	5.4	9.5	4.4	7.1
J30-37ZKN-B	37.5	32.2	5.4	9.5	4.4	7.1
J30-51ZKN-B	36.3	30.8	6.5	9.5	4.4	7.1
J30-74ZKN-B	38.8	33.5	7.6	9.5	4.4	7.1

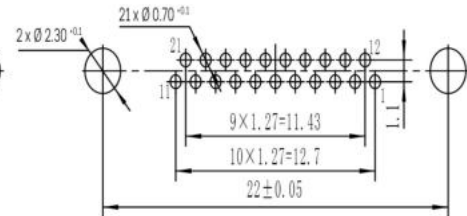
PCB Layouts



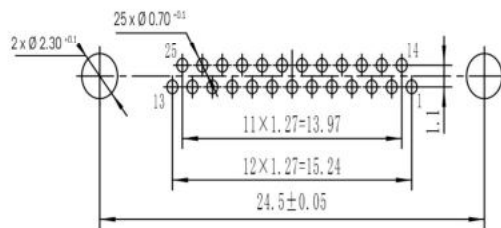
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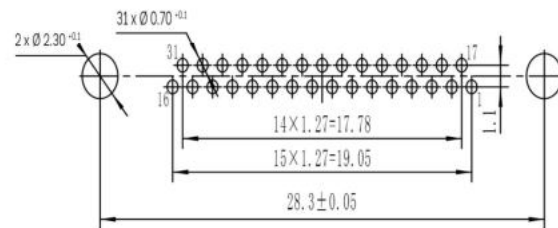
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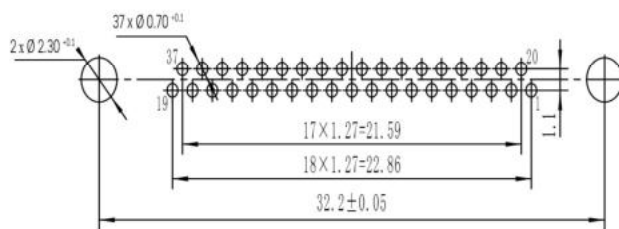
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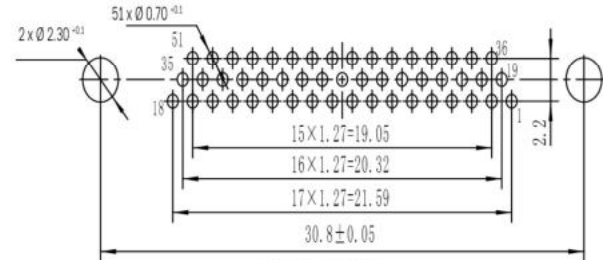
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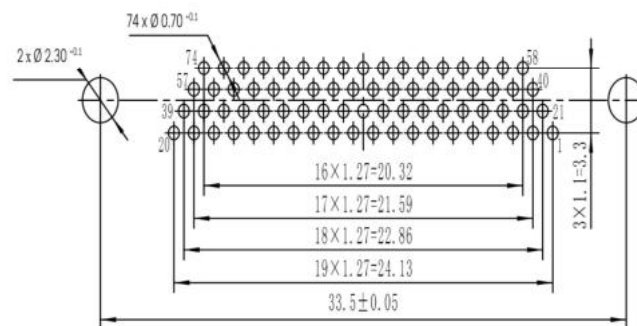
J30-31TJN-B



J30-37TJN-B



J30-51TJN-B

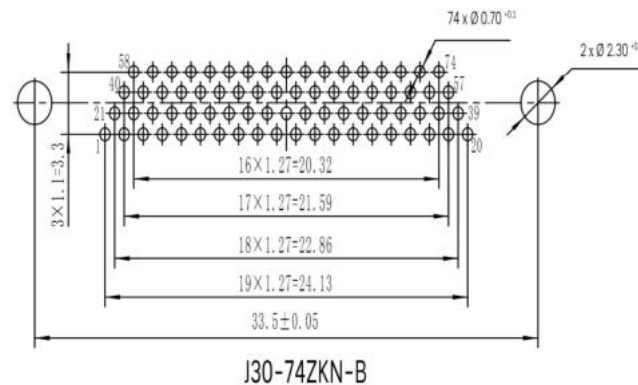
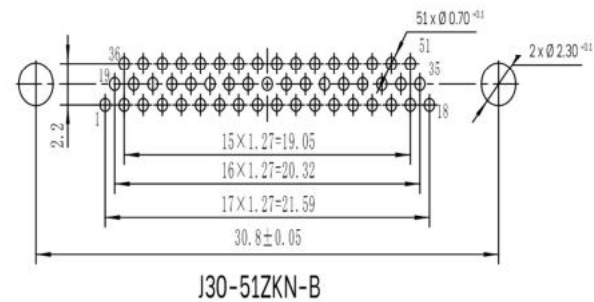
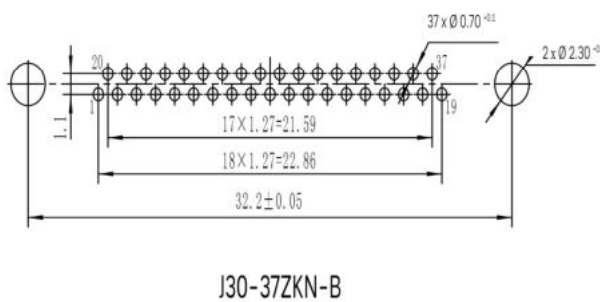
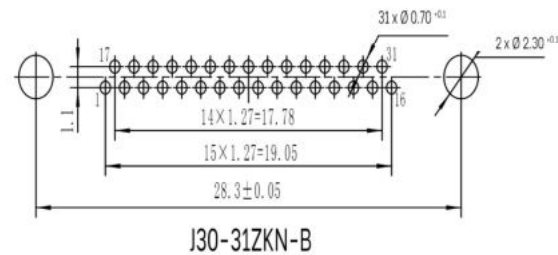
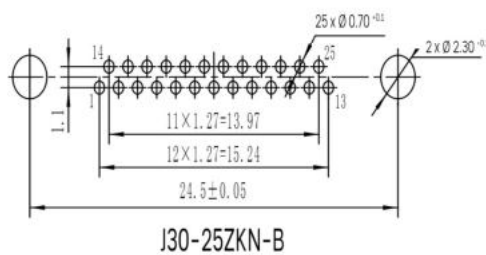
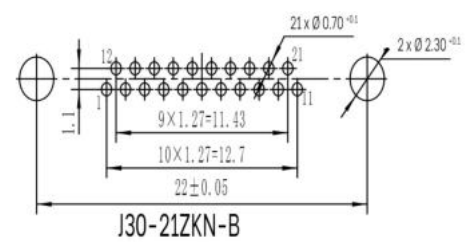
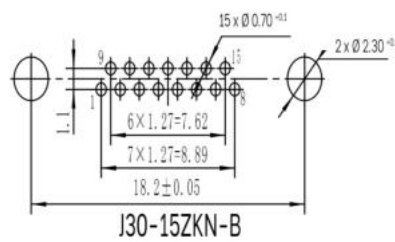
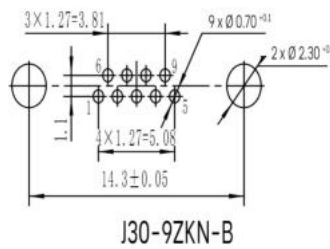


J30-74TJN-B

J30 series twisted pin micro rectangular electrical connectors

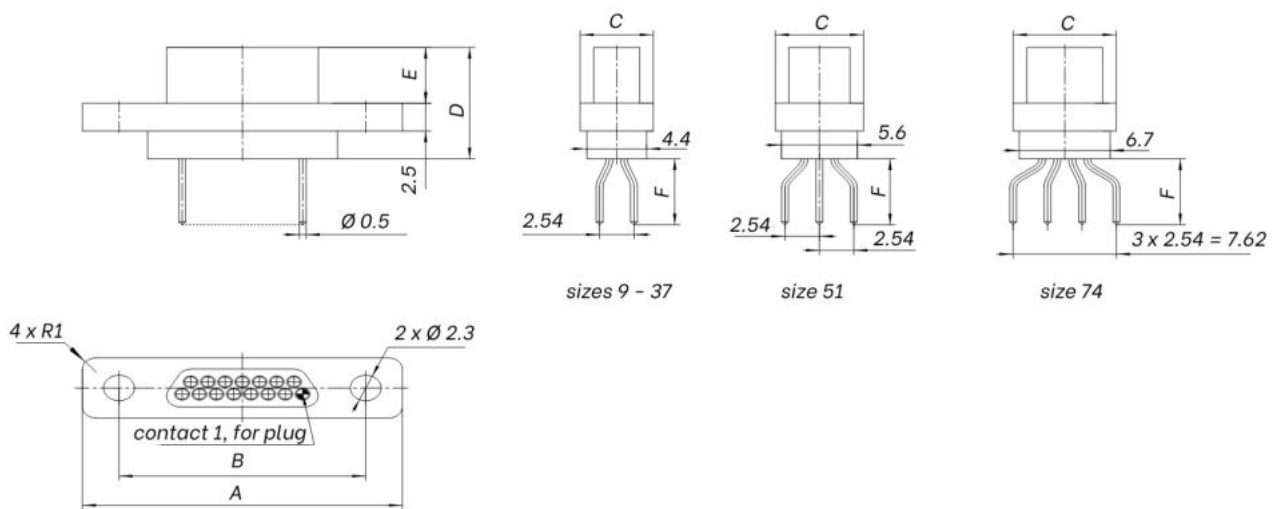
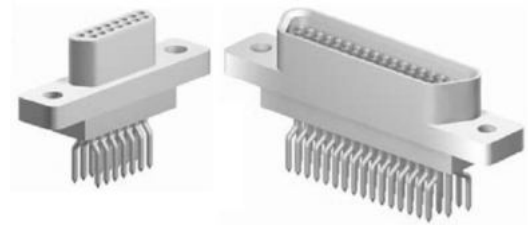


PCB Layouts



Dimensions

Vertical Mount thru-hole (N-J Type)

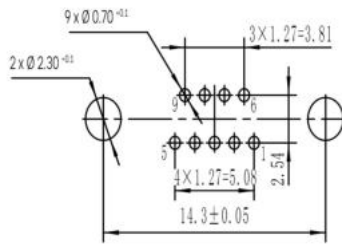


Connector type	A	B	C	D	E	F
J30-9TJN-J	19.6	14.3	5.4	10	5	5.9
J30-15TJN-J	23.5	18.2	5.4	10	5	5.9
J30-21TJN-J	27.4	22	5.4	10	5	5.9
J30-25TJN-J	29.8	24.5	5.4	10	5	5.9
J30-31TJN-J	33.7	28.3	5.4	10	5	5.9
J30-37TJN-J	37.5	32.2	5.4	10	5	5.9
J30-51TJN-J	36.3	30.8	6.5	10	5	5.9
J30-74TJN-J	38.8	33.5	7.6	10	5	5.9
J30-9ZKN-J	19.6	14.3	5.4	9.5	4.4	7.1
J30-15ZKN-J	23.5	18.2	5.4	9.5	4.4	7.1
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J30-25ZKN-J	29.8	24.5	5.4	9.5	4.4	7.1
J30-31ZKN-J	33.7	28.3	5.4	9.5	4.4	7.1
J30-37ZKN-J	37.5	32.2	5.4	9.5	4.4	7.1
J30-51ZKN-J	36.3	30.8	6.5	9.5	4.4	7.1
J30-74ZKN-J	38.8	33.5	7.6	9.5	4.4	7.1

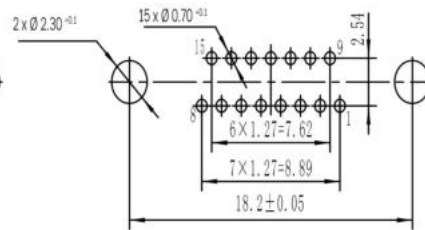
J30 series twisted pin micro rectangular electrical connectors



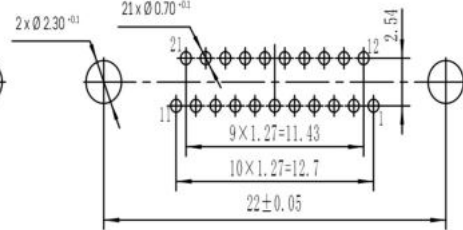
PCB Layouts



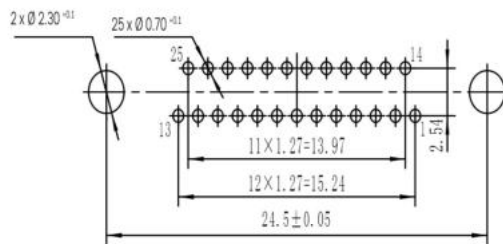
J30-9TJN-J



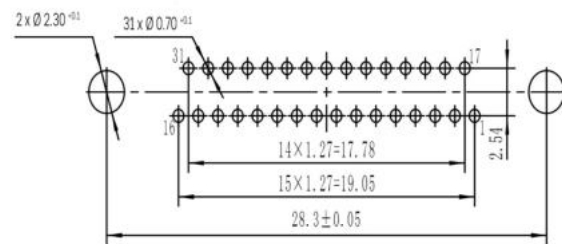
J30-15TJN-J



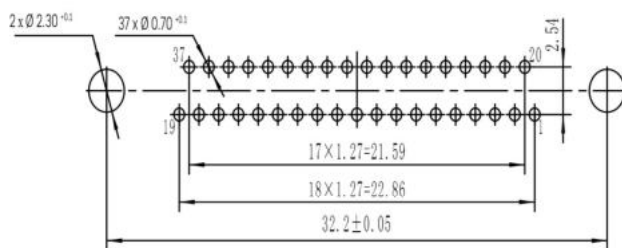
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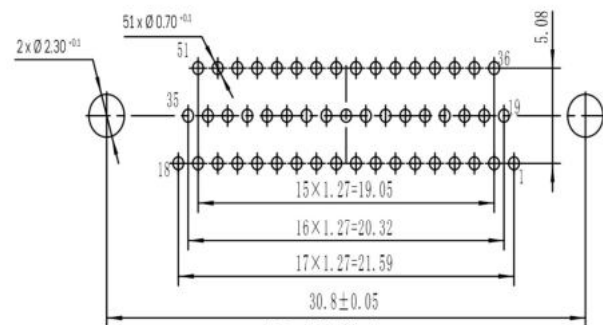
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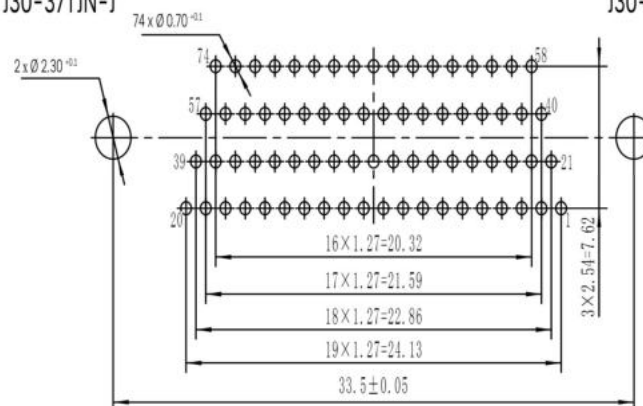
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J30-37TJN-J

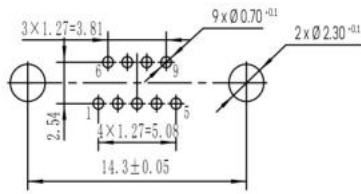


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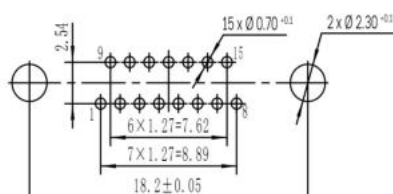


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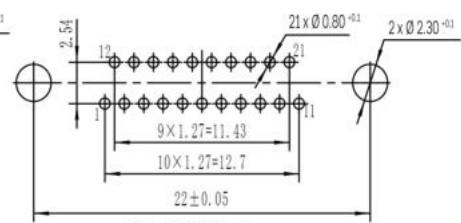
PCB Layouts



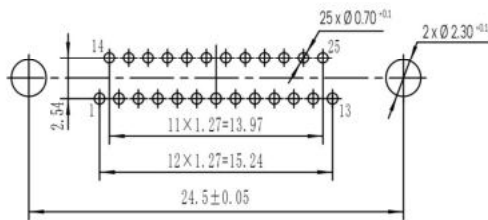
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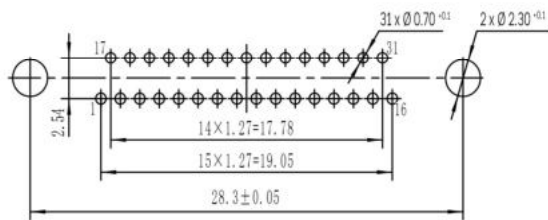
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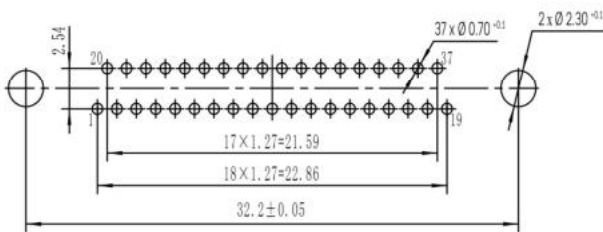
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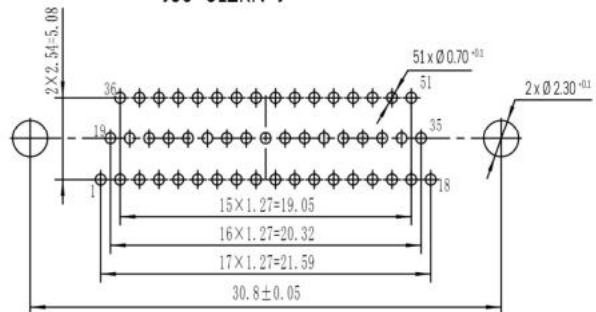
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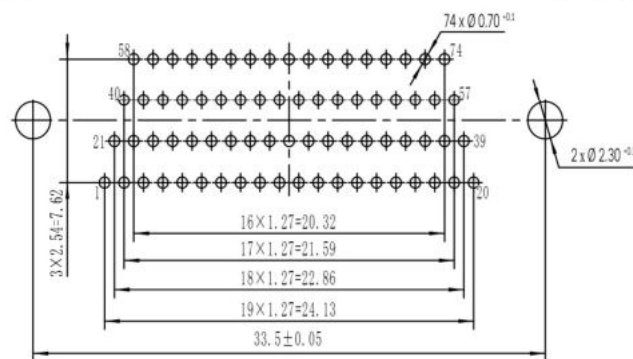
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J30-37ZKN-J



J30-51ZKN-J



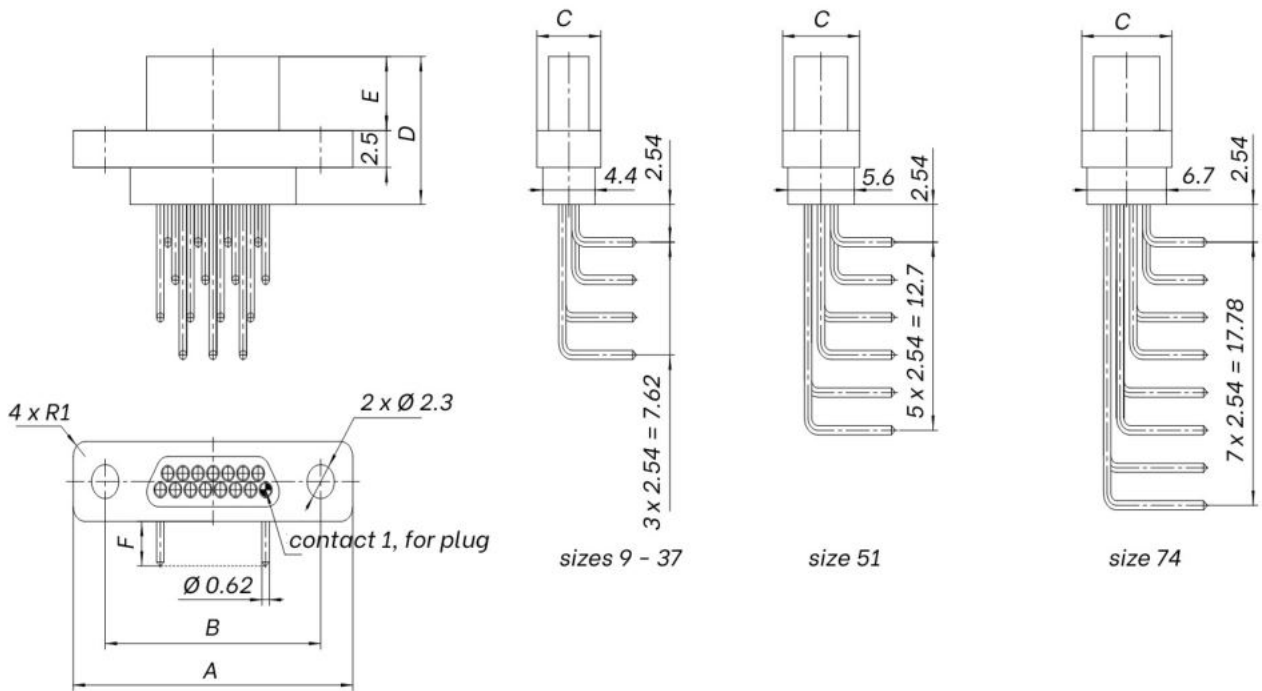
J30-74ZKN-J

J30 series twisted pin micro rectangular electrical connectors



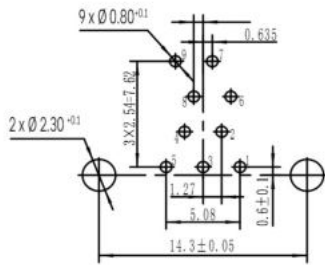
Dimensions

Right Angle Thru-Hole (W Type)

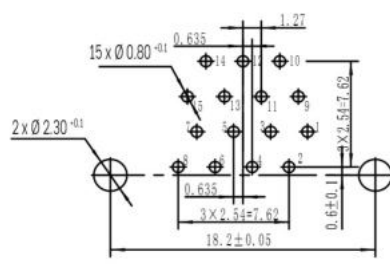


Connector type	A	B	C	D	E	F
J30-9TJW	19.6	14.3	5.4	10	5	5.1
J30-15TJW	23.5	18.2	5.4	10	5	5.1
J30-21TJW	27.4	22	5.4	10	5	5.1
J30-25TJW	29.8	24.5	5.4	10	5	5.1
J30-31TJW	33.7	28.3	5.4	10	5	5.1
J30-37TJW	37.5	32.2	5.4	10	5	5.1
J30-51TJW	36.3	30.8	6.5	10	5	5.1
J30-74TJW	38.8	33.5	7.6	10	5	5.1
J30-9ZKW	19.6	14.3	5.4	9.5	4.4	6.9
J30-15ZKW	23.5	18.2	5.4	9.5	4.4	6.9
J30-21ZKW	27.4	22	5.4	9.5	4.4	6.9
J30-25ZKW	29.8	24.5	5.4	9.5	4.4	6.9
J30-31ZKW	33.7	28.3	5.4	9.5	4.4	6.9
J30-37ZKW	37.5	32.2	5.4	9.5	4.4	6.9
J30-51ZKW	36.3	30.8	6.5	9.5	4.4	5.3
J30-74ZKW	38.8	33.5	7.6	9.5	4.4	5.3

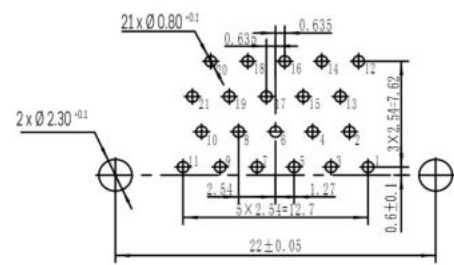
PCB Layouts



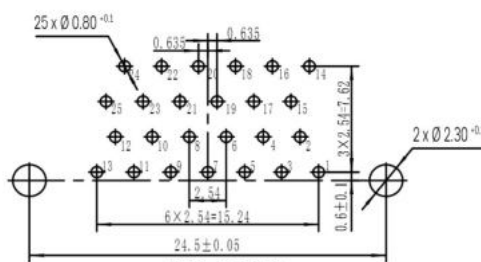
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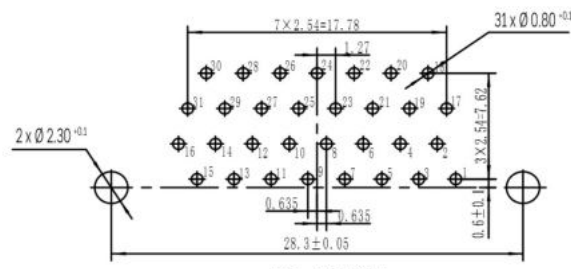
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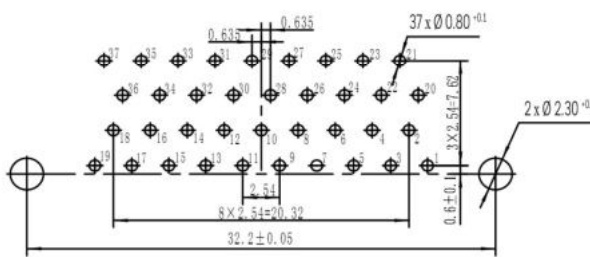
J30-21TJW



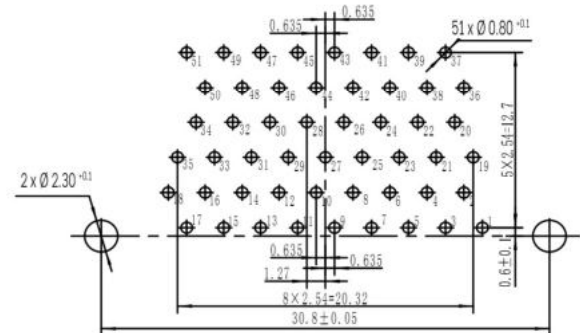
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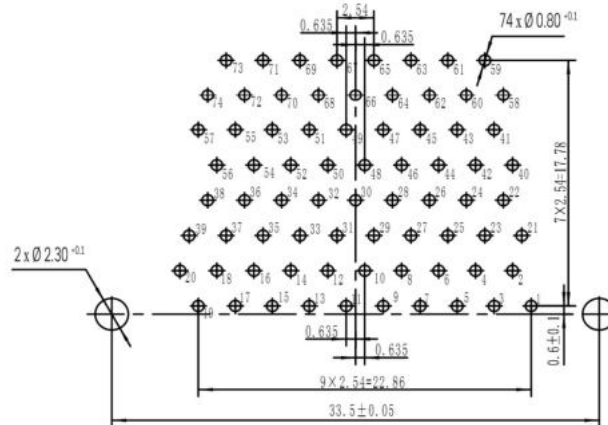
J30-31TJW



J30-37TJW



J30-51TJW

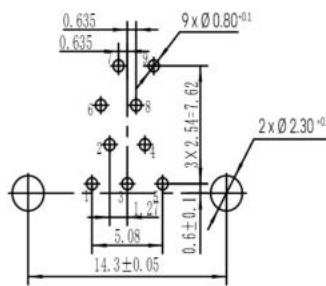


J30-74TJW

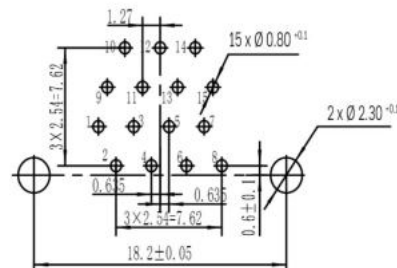
J30 series twisted pin micro rectangular electrical connectors



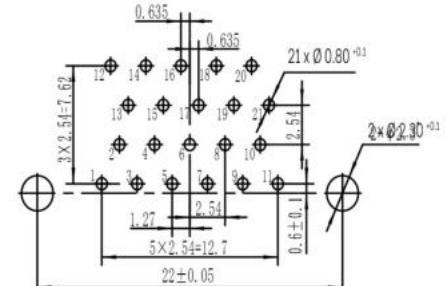
PCB Layouts



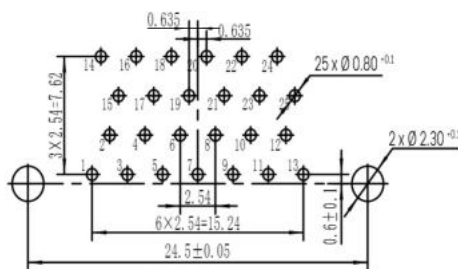
J30-9ZKW



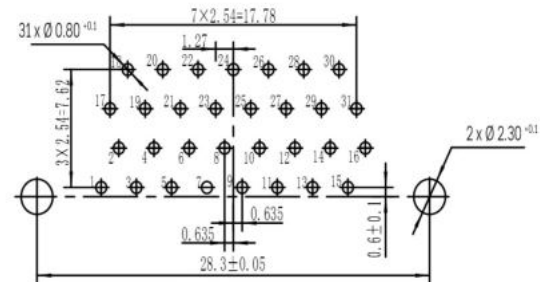
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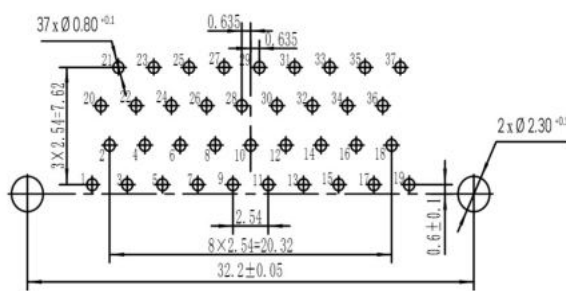
J30-21ZKW



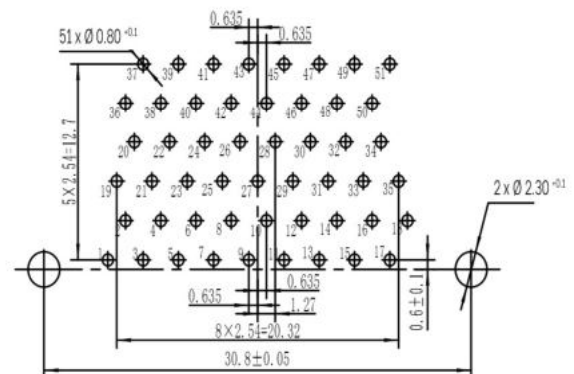
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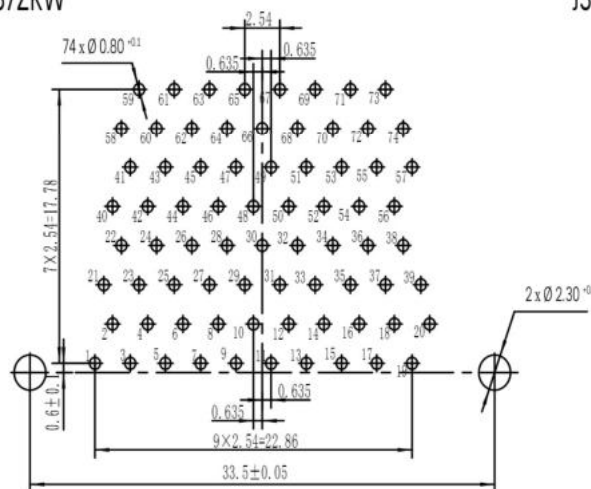
J30-31ZKW



J30-37ZKW



J30-51ZKW



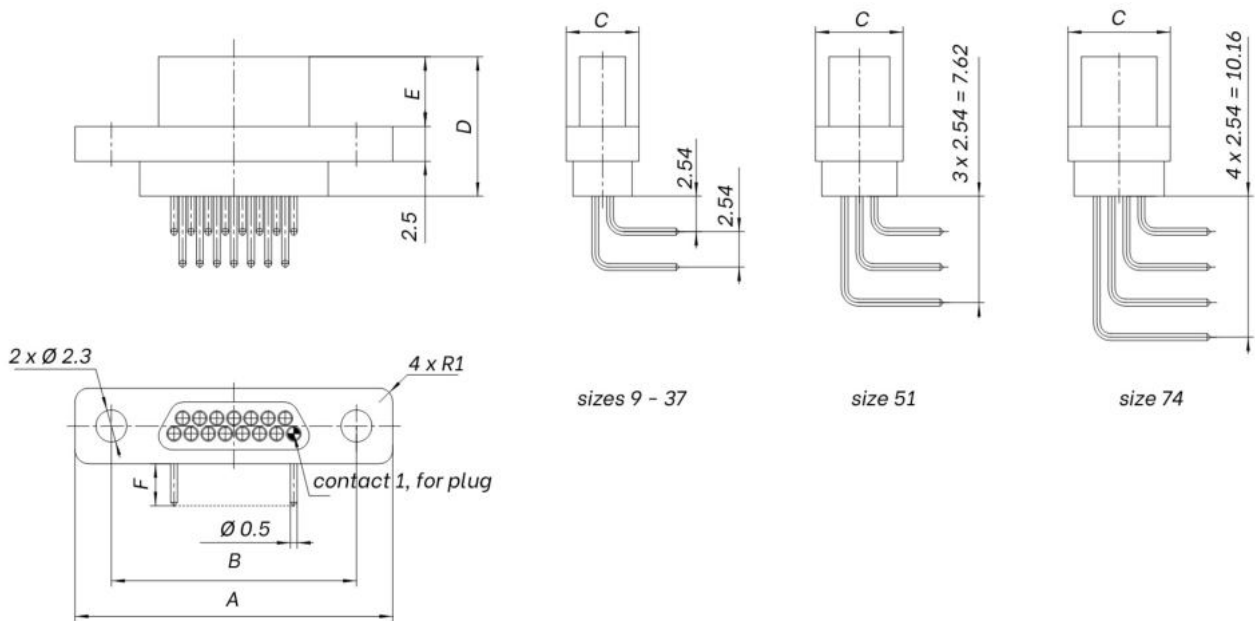
J30-74ZKW



J30 series twisted pin micro rectangular electrical connectors

Dimensions

Right Angle Thru-Hole (W-J Type)

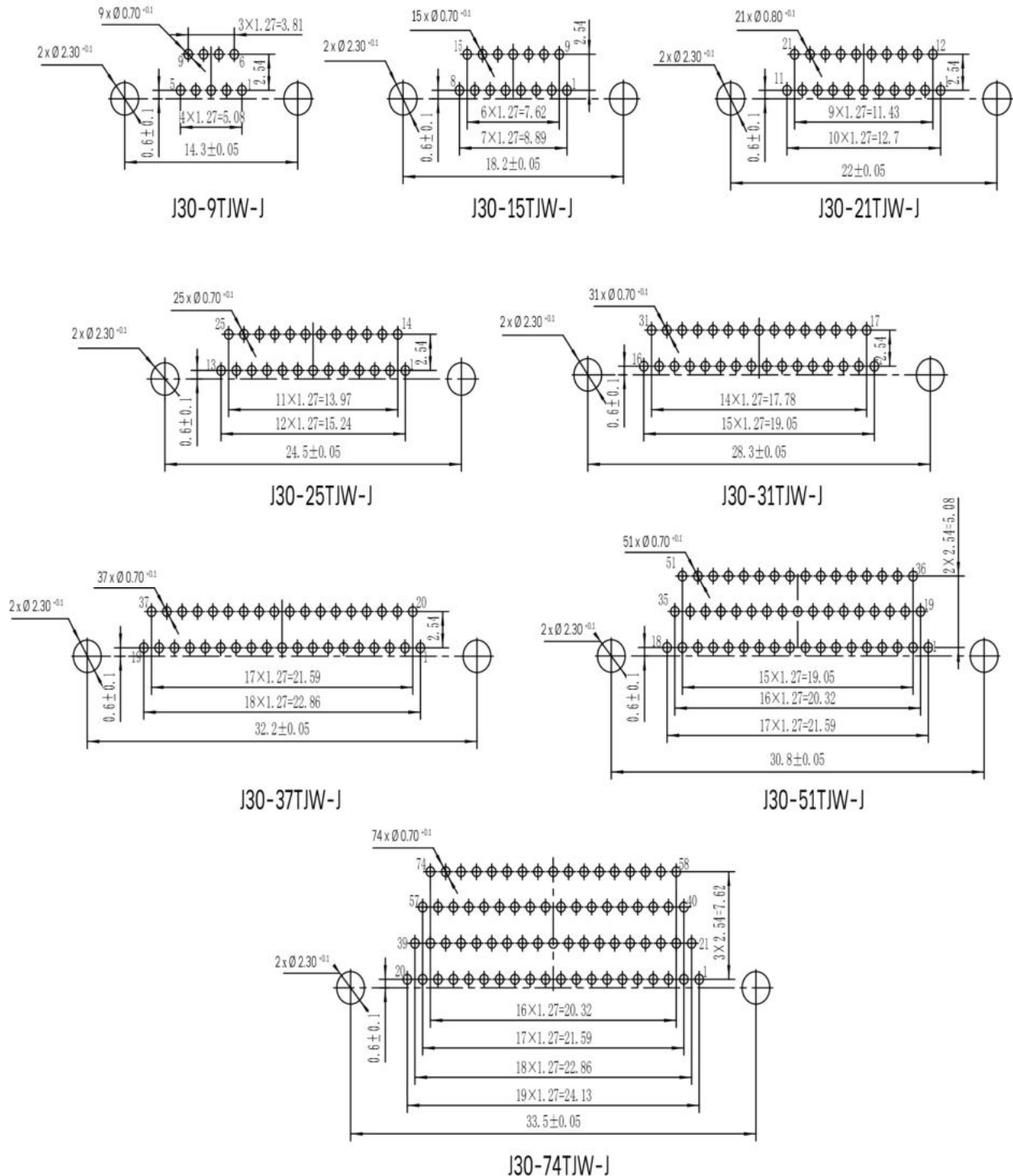


Connector type	A	B	C	D	E	F
J30-9TJW-J	19.6	14.3	5.4	10	5	5.1
J30-15TJW-J	23.5	18.2	5.4	10	5	5.1
J30-21TJW-J	27.4	22	5.4	10	5	5.1
J30-25TJW-J	29.8	24.5	5.4	10	5	5.1
J30-31TJW-J	33.7	28.3	5.4	10	5	5.1
J30-37TJW-J	37.5	32.2	5.4	10	5	5.1
J30-51TJW-J	36.3	30.8	6.5	10	5	5.1
J30-74TJW-J	38.8	33.5	7.6	10	5	5.1
J30-9ZKW-J	19.6	14.3	5.4	9.5	4.4	6.9
J30-15ZKW-J	23.5	18.2	5.4	9.5	4.4	6.9
J30-21ZKW-J	27.4	22	5.4	9.5	4.4	6.9
J30-25ZKW-J	29.8	24.5	5.4	9.5	4.4	6.9
J30-31ZKW-J	33.7	28.3	5.4	9.5	4.4	6.9
J30-37ZKW-J	37.5	32.2	5.4	9.5	4.4	6.9
J30-51ZKW-J	36.3	30.8	6.5	9.5	4.4	5.3
J30-74ZKW-J	38.8	33.5	7.6	9.5	4.4	5.3

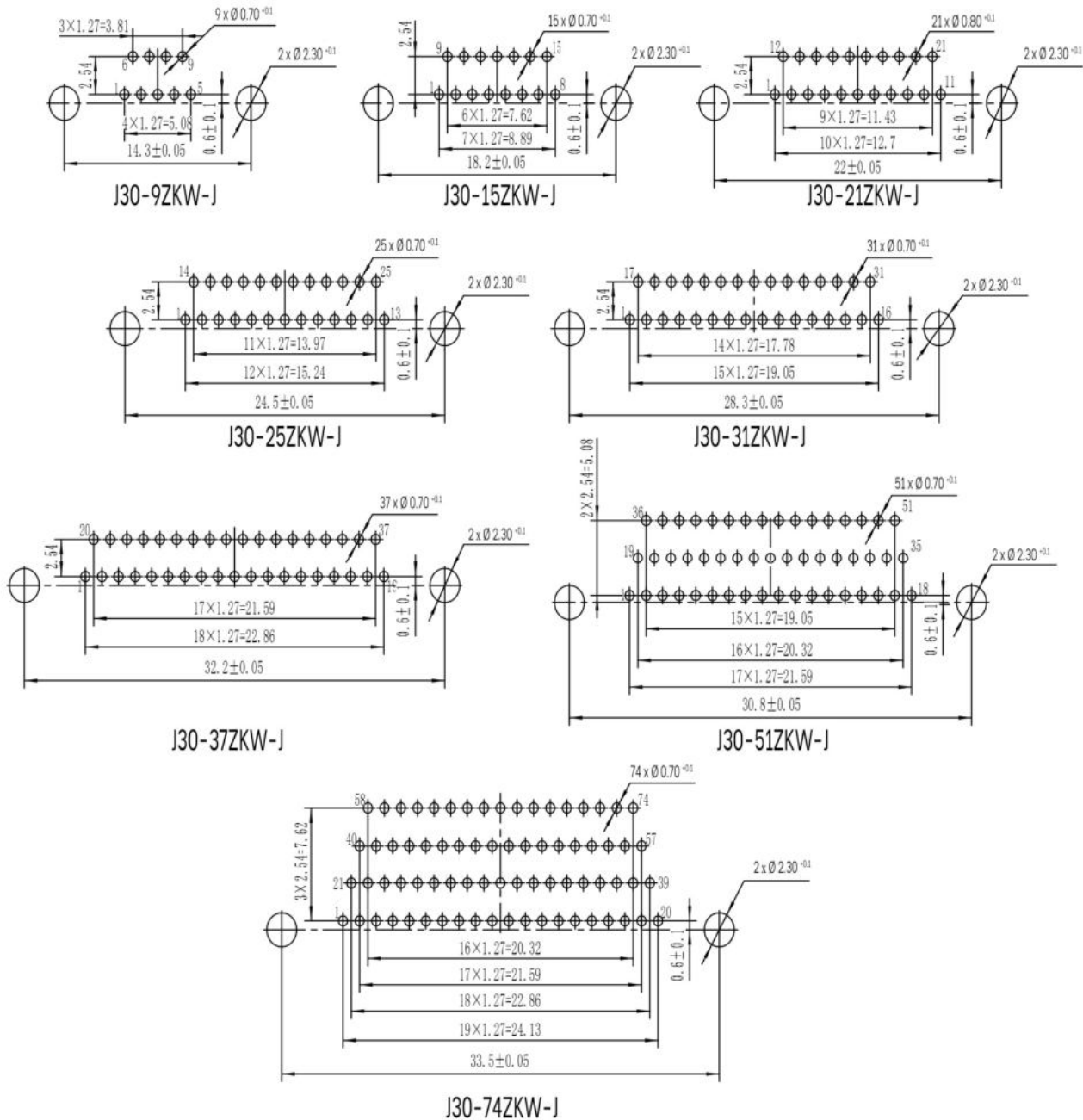
J30 series twisted pin micro rectangular electrical connectors



PCB Layouts



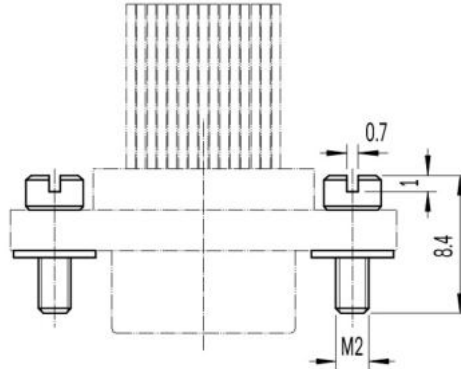
PCB Layouts



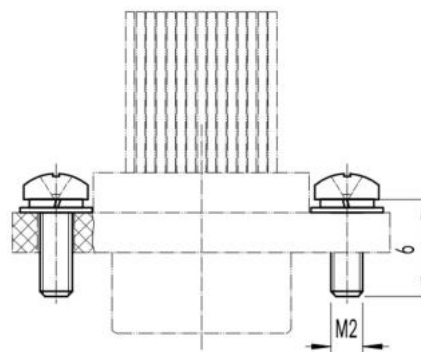
J30 series twisted pin micro rectangular electrical connectors



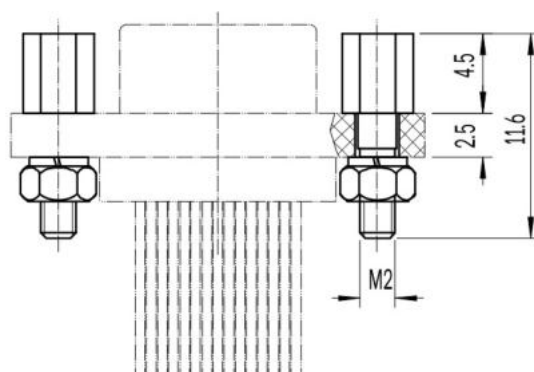
Hardware Kits



Hardware Type	Kit	Application
21E6-040-022-B1	2 Slot Head Jackscrews + 2 E-Rings	Pre-Wired Connectors



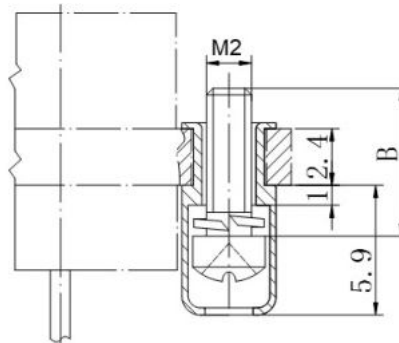
Hardware Type	Kit	Application
21E6-040-076-B1	2 Slot Head Jackscrews + 2 washers + 2 lockwashers	Pre-Wired Connectors
Ln6.480.025	2 Slot Head Jackscrews + 2 washers + 2 lockwashers	Pre-Wired Connectors



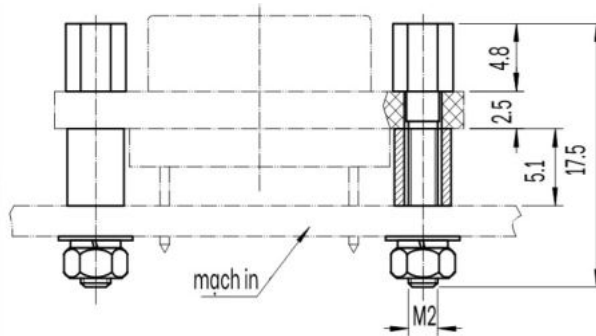
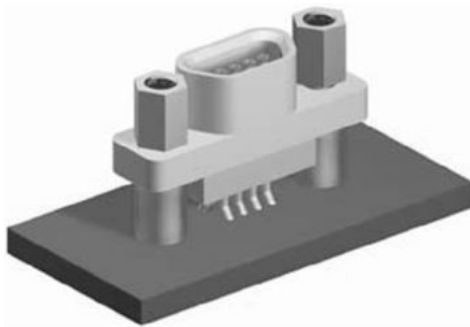
Hardware Type	Kit	Application
21E6-040-023-B1	2 Female Jackposts + 2 nuts + 2 lockwashers	Pre-Wired Connectors
Ln6.480.003	2 Jackscrews + 2 nuts + 2 nuts + 2 lockwashers	Pre-Wired Connectors



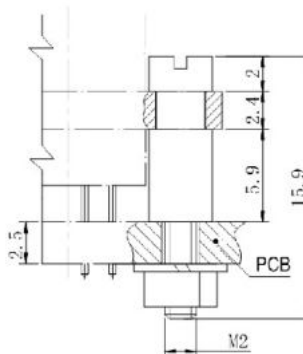
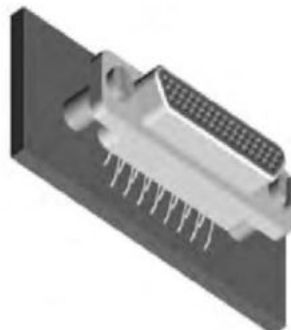
J30 series twisted pin micro rectangular electrical connectors



Hardware Type	Kit	Application
L Type	2 Slot Head Jackscrew Non-Removable + 2 lockwashers	Pre-Wired Connectors
	2 Slot Head Jackscrew Non-Removable + 2 lockwashers	Pre-Wired Connectors

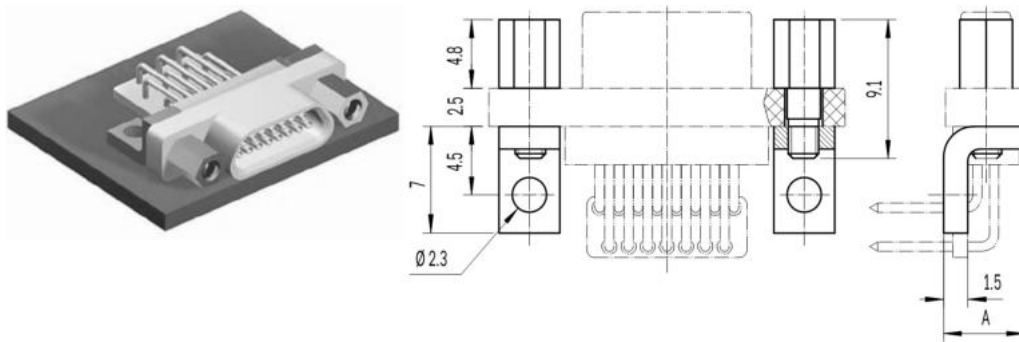


Hardware Type	Kit	Application
21E6-040-025-B1	2 Female Jackposts + 2 nuts + 2 washers + 2 lockwashers+ 2 support sleeves	Vertical Mount PCB Connectors
Ln6.480.028	2 Female Jackposts + 2 nuts + 2 washers + 2 lockwashers+ 2 support sleeves	Vertical Mount PCB Connectors



Hardware Type	Kit	Application
V Type	2 Slot Head Jackscrews + 2 nuts + 2 lockwashers+ 2 support sleeves	Vertical Mount PCB Connectors
21E6-040-305-B1	2 Slot Head Jackscrews + 2 nuts + 2 lockwashers+ 2 support sleeves	Vertical Mount PCB Connectors

J30 series twisted pin micro rectangular electrical connectors



Hardware Type	A	Kit	Application
21E6-040-024-B1	5.3	2 Female Jackposts + 2 mounting brackets	Right Angle PCB Connectors sizes 9 - 37
Ln6.150.025	5.3	2 Female Jackposts + 2 mounting brackets	Right Angle PCB Connectors sizes 9 - 37
21E6-040-303-B1	6.5	2 Female Jackposts + 2 mounting brackets	Right Angle PCB Connectors size 51
Ln6.150.026	6.5	2 Female Jackposts + 2 mounting brackets	Right Angle PCB Connectors for size 51
21E6-040-304-B1	9.7	2 Female Jackposts + 2 mounting brackets	Right Angle PCB Connectors size 74

CÔNG TY TNHH RỒNG VÀNG TECHNOLOGY

**Địa chỉ: 48/5 Vĩnh Xuân, Phường Vĩnh thái,
Thành Phố Nha Trang, Tỉnh Khánh Hòa**

SĐT: +84 79.219.2707

www.rong-vang-technology.vn

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