RAINEON

南京睿宁电子科技有限公司

NANJING RAINEON ELECTRONIC TECHNOLOGY CO., LTD

PRODUCT CATALOGUE

Aviation Connectors | Interconnect Technology



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No. 100 Weiliuying, Xiaolingwei Street, Xuanwu District,

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Features

- Contact counts: 9, 15, 21, 25, 31, 37 and 51 ways (seven sizes)
- Twisted-wire hyperboloid spring contacts give high contact density
- Conductor 0.1 mm² to 0.15 mm²; 0.07 mm² special type.
- Performance meets the requirements of GJB2446
- Locking kits for this series are ordered separately; if they must be supplied assembled to the connector, state this in the contract
- Applicable standard:

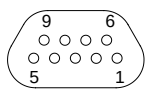
Q/Ln. J6-69A-2003

Detail specification for J30 series micro-rectangular electrical connectors

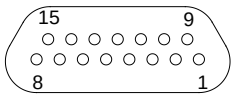
Technical Characteristics

- Ambient temperature: -55 °C to +125 °C
- Vibration: 10-2000 Hz, 196 m/s²
- Random vibration: 0.4 G²/Hz, rms 23.1 G
- Shock: 735 m/s² 11ms
- Rated current: 3 A
- Contact resistance: <= 10 mOhm
- Insulation resistance: >= 5000 MOhm
- Dielectric withstanding voltage: 800 V
- Mechanical life: 500 cycles

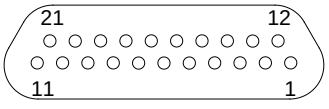
Contact Arrangements



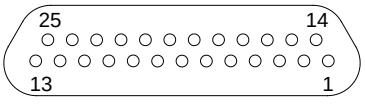
J30-9 way



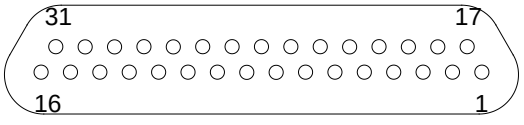
J30-15 way



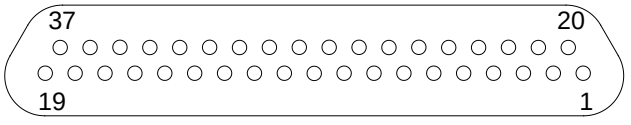
J30-21 way



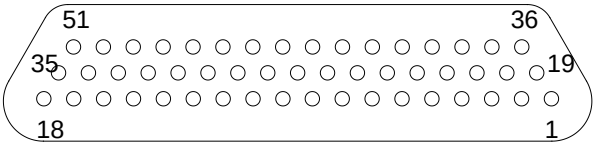
J30-25 way



J30-31 way



J30-37 way



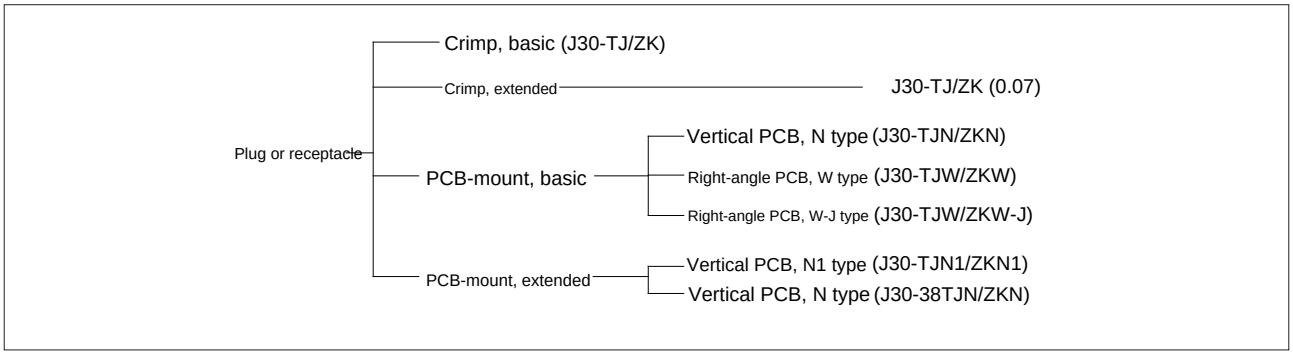
J30-51 way

Note: viewed from the plug mating end

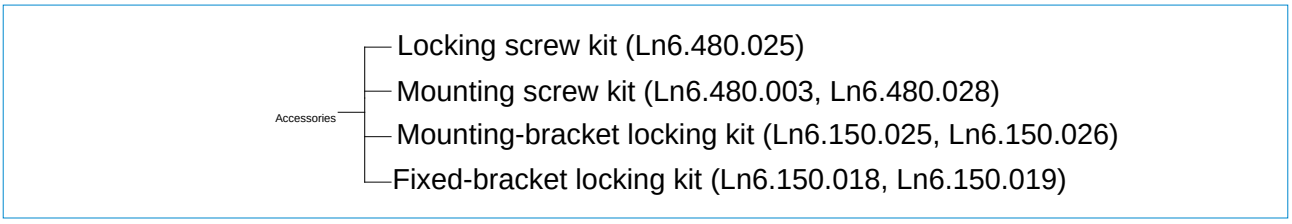
Product Family Tree

Plug (receptacle) family tree

The J30 family tree is given separately for the plugs (receptacles) and the accessories, as follows:



Accessory family tree



Points to Know Before Selection

When ordering J30 products you normally specify the accessories needed for locking or mounting, quoting only the accessory part number.

Ordering Code

J30 × − × TJ/ZK × − × (accessory note)

1. 2. 3. 4. 5. 6.

(1) Series designation: J30

(2) Shell variant: three shell styles - basic (no letter), A and B

(3) Contact count: 9, 15, 21, 25, 31, 37, 51

(4) TJ/ZK - connector and contact type:

TJ - plug fitted with pins;
ZK - receptacle fitted with sockets;
TJ and ZK are a fixed combination

(5) Tail termination:

No letter - crimp;
N - vertical PCB mount;
W - right-angle PCB mount;

(6) Modification or tail change:

J - right-angle PCB connector with tail pin grid changed to 1.27 x 2.54 (columns x rows)

Note: the supplement is not part of the ordering code; state the wire specs (area, length, colour, etc.); for special wiring, describe it.

Marking example

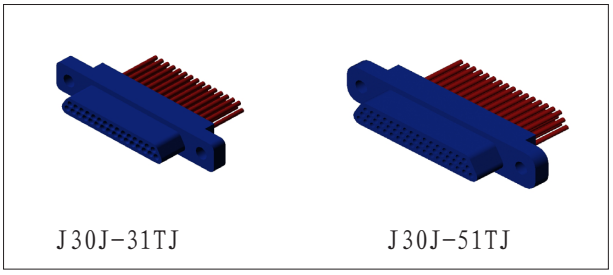
J30 37 TJ W–J

The marking above denotes a right-angle PCB plug with a 37-way contact arrangement, pin contacts and W-J type tail terminations.

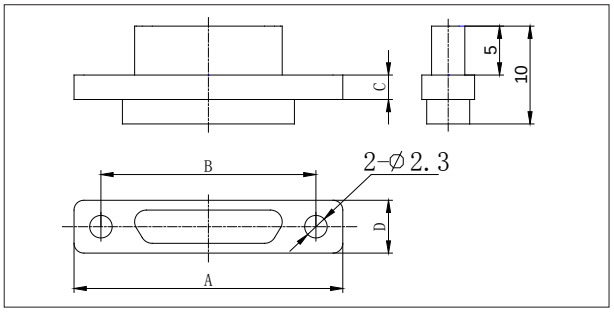
J30 crimp, basic \ J30-TJ & J30-ZK

Plug
J30-9, 15, 21, 25, 31, 37, 51TJ

Product View

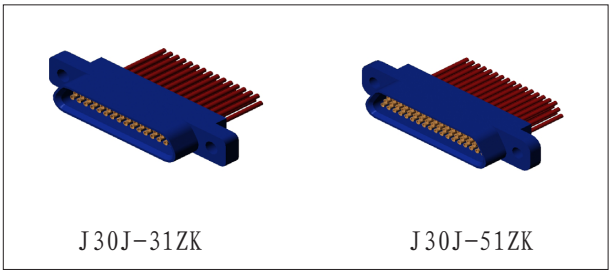


Outline Dimensions

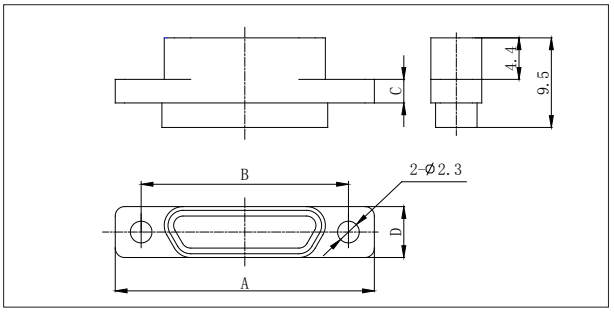


Plug
J30-9, 15, 21, 25, 31, 37, 51ZK

Product View

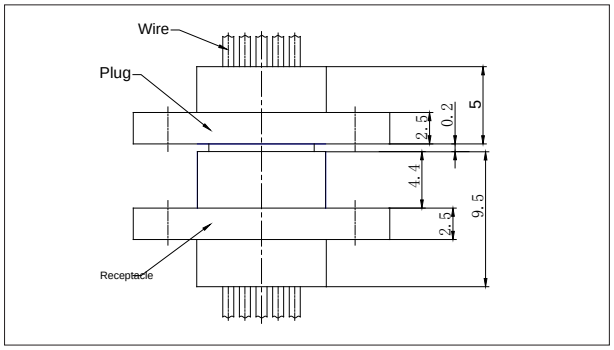


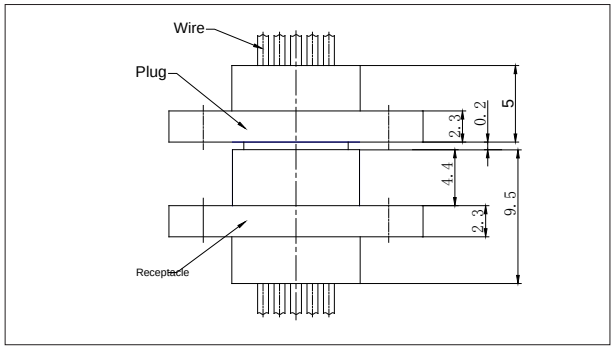
Outline Dimensions



Ordering Code	A	B	C	D	Ordering Code	A	B	C	D
J30-9TJ	19.8	14.3	2.5	5.4	J30-9ZK	19.8	14.3	2.5	5.4
J30-15TJ	23.6	18.2	2.5	5.4	J30-15ZK	23.6	18.2	2.5	5.4
J30-21TJ	27.5	22	2.5	5.4	J30-21ZK	27.5	22	2.5	5.4
J30-25TJ	30	24.5	2.5	5.4	J30-25ZK	30	24.5	2.5	5.4
J30-31TJ	33.7	28.3	2.5	5.4	J30-31ZK	33.7	28.3	2.5	5.4
J30-37TJ	37.5	32.2	2.5	5.4	J30-37ZK	37.5	32.2	2.5	5.4
J30-51TJ	36.3	30.8	2.3	6.5	J30-51ZK	36.3	30.8	2.3	6.5

Outline after Mating





J30 crimp, extended \ J30-TJ (0.07) and J30-ZK (0.07)

This type crimps 0.07 mm² wire; other specs as J30-TJ/ZK.

Plug: J30-9, 15, 21, 25, 31, 37, 51TJ (0.07) Receptacle: J30-9, 15, 21, 25, 31, 37, 51ZK (0.07)

J30 PCB-mount, basic \ J30 vertical PCB, N type

Contacts terminate to the PCB vertically; the spacing between adjacent columns is 2.54, and the row pitch is shown in the figure.

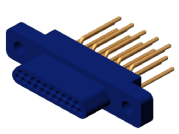
Plug

J30-9, 15, 21, 25, 31, 37, 51TJN

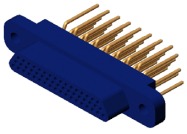
Plug

J30-9, 15, 21, 25, 31, 37, 51ZKN

Product View

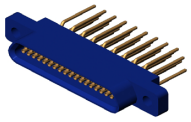


J30-21TJN

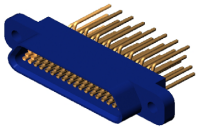


J30-51TJN

Product View

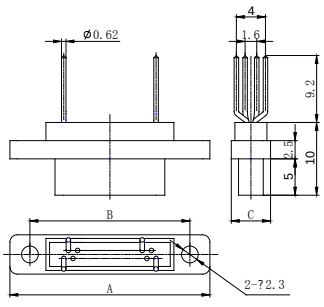


J30-21ZKN

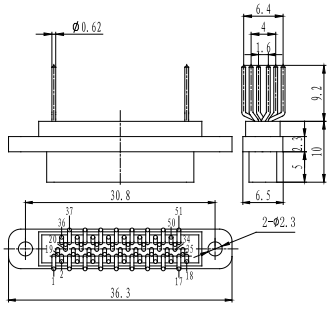


J30-51ZKN

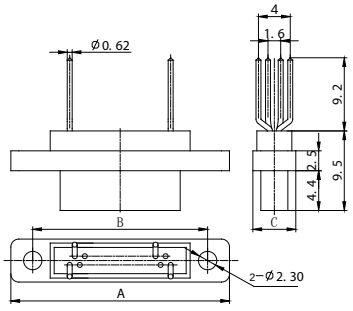
Outline Dimensions



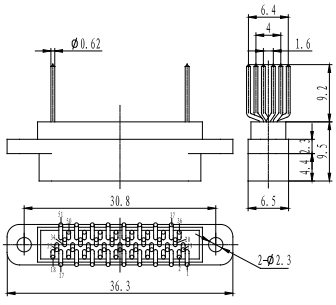
J30-9-37TJN



J30-51TJN



J30-9-37ZKN



J30-51ZKN

Ordering Code	A	B	C	Ordering Code	A	B	C
J30-9TJN	19.8	14.3	5.4	J30-9ZKN	19.8	14.3	5.4
J30-15TJN	23.6	18.2	5.4	J30-15 ZKN	23.6	18.2	5.4
J30-21TJN	27.5	22	5.4	J30-21 ZKN	27.5	22	5.4
J30-25TJN	30	24.5	5.4	J30-25 ZKN	30	24.5	5.4
J30-31TJN	33.7	28.3	5.4	J30-31 ZKN	33.7	28.3	5.4
J30-37TJN	37.5	32.2	5.4	J30-37 ZKN	37.5	32.2	5.4

J30 PCB-mount, basic \ J30 vertical PCB, N1 type

Contacts terminate to the PCB vertically, with a grid of 2.54 x 2.54 (columns x rows).

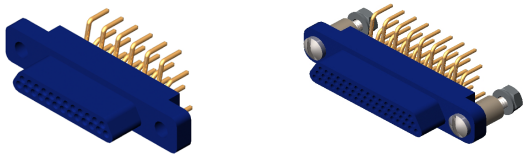
Plug

J30-9, 15, 21, 25, 31, 37, 51TJN1

Plug

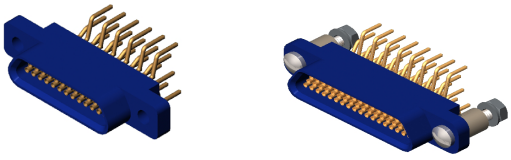
J30-9, 15, 21, 25, 31, 37, 51ZKN1

Product View



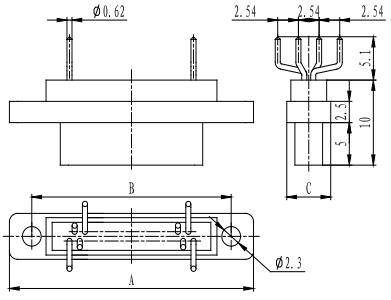
J30-25TJN1 J30-51TJN1

Product View

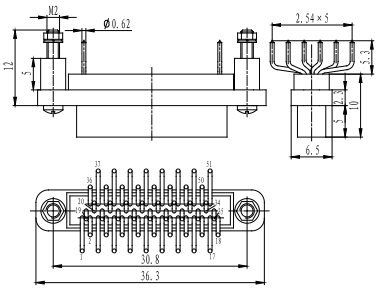


J30-25ZKN1 J30-51ZKN1

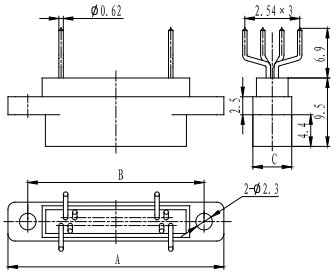
Outline Dimensions



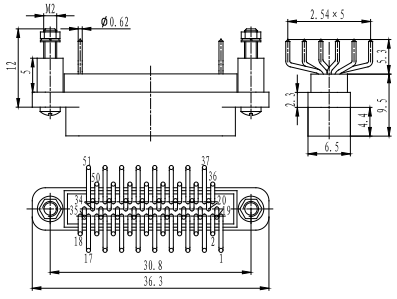
J30-9-37TJN1



J30-51TJN1



J30-9-37ZKN1



J30-51ZKN1

Ordering Code	A	B	C	Ordering Code	A	B	C
J30-9TJN1	19.8	14.3	5.4	J30-9ZKN1	19.8	14.3	5.4
J30-15TJN1	23.6	18.2	5.4	J30-15 ZKN1	23.6	18.2	5.4
J30-21TJN1	27.5	22	5.4	J30-21 ZKN1	27.5	22	5.4
J30-25TJN1	30	24.5	5.4	J30-25 ZKN1	30	24.5	5.4
J30-31TJN1	33.7	28.3	5.4	J30-31 ZKN1	33.7	28.3	5.4
J30-37TJN1	37.5	32.2	5.4	J30-37 ZKN1	37.5	32.2	5.4

J30 PCB-mount, basic \ J30 right-angle PCB, W type

Contacts terminate to the PCB at right angles, with a grid of 2.54 x 2.54 (columns x rows).

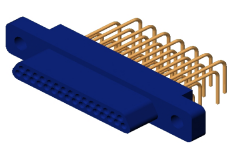
Plug

J30-9, 15, 21, 25, 31, 37, 51TJW

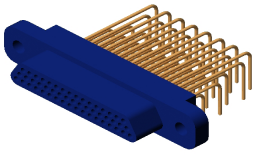
Plug

J30-9, 15, 21, 25, 31, 37, 51ZKW

Product View

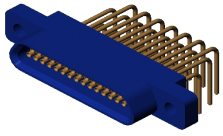


J30-31TJW

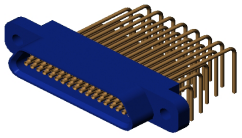


J30-51TJW

Product View

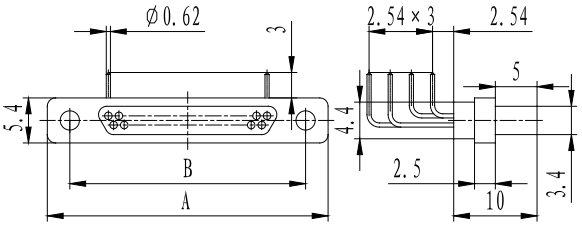


J30-31ZKW

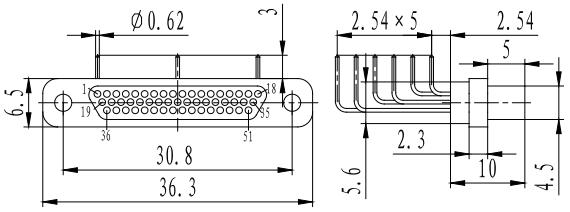


J30-51ZKW

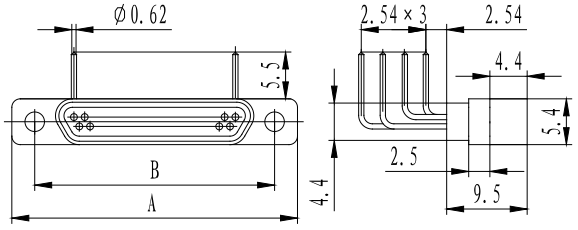
Outline Dimensions



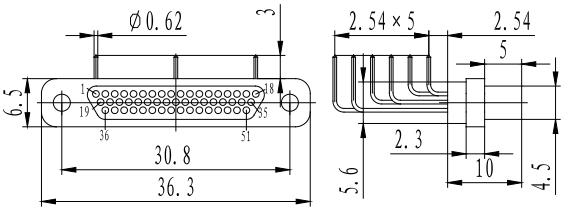
J30-9-37TJW



J30-51TJW



J30-9-37ZKW



J30-51ZKW

Ordering Code	A	B	Ordering Code	A	B
J30-9TJW	19.8	14.3	J30-9ZKW	19.8	14.3
J30-15TJW	23.6	18.2	J30-15ZKW	23.6	18.2
J30-21TJW	27.5	22	J30-21ZKW	27.5	22
J30-25TJW	30	24.5	J30-25ZKW	30	24.5
J30-31TJW	33.7	28.3	J30-31ZKW	33.7	28.3
J30-37TJW	37.5	32.2	J30-37ZKW	37.5	32.2

J30 PCB-mount, basic \ J30 right-angle PCB, W-J type

Contacts terminate to the PCB at right angles, with a column x row grid of 1.27 x 2.54.

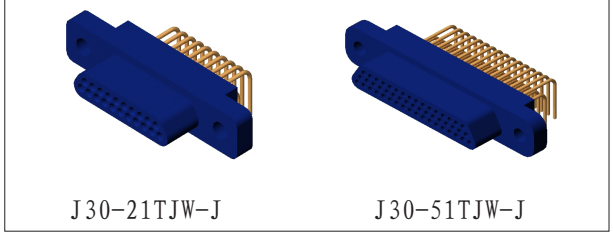
Plug

J30-9, 15, 21, 25, 31, 37, 51TJW-J

Plug

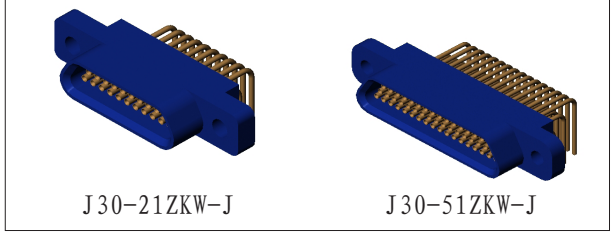
J30-9, 15, 21, 25, 31, 37, 51ZKW-J

Product View



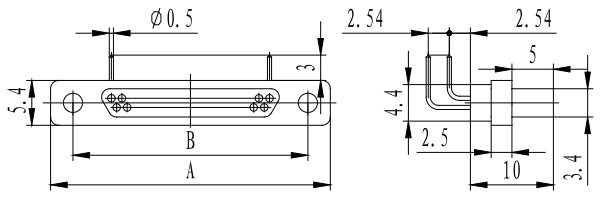
J30-21TJW-J J30-51TJW-J

Product View

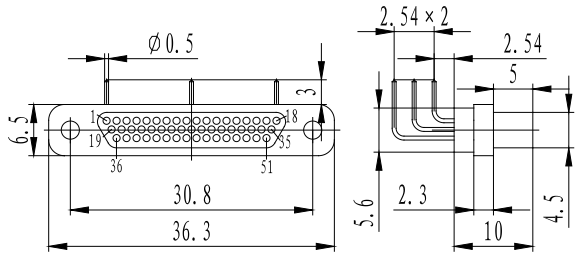


J30-21ZKW-J J30-51ZKW-J

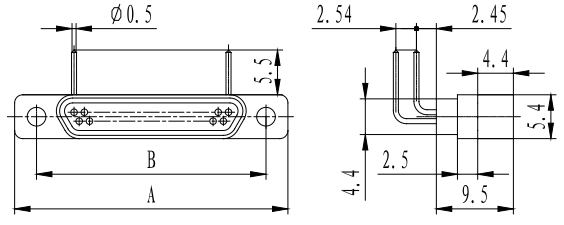
Outline Dimensions



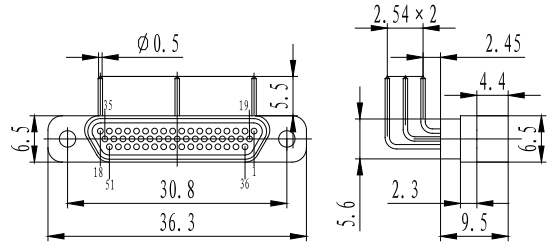
J30-9-37TJW-J



J30-51TJW-J



J30-9-37ZKW-J



J30-51ZKW-J

Ordering Code	A	B	Ordering Code	A	B
J30-9TJW-J/ZKW-J	19.8	14.3	J30-25TJW-J/ZKW-J	30	24.5
J30-15TJW-J/ZKW-J	23.6	18.2	J30-31TJW-J/ZKW-J	33.7	28.3
J30-21TJW-J/ZKW-J	27.5	22	J30-37TJW-J/ZKW-J	37.5	32.2

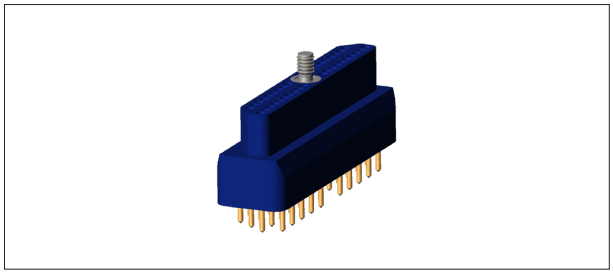
J30 PCB-mount, extended \ J30-38TJN and J30J-38ZKN

The product locks by a central screw and is mainly used for PCB wiring. Mounting: the plug is a vertical PCB type and the receptacle is a right-angle PCB type with surface mount.

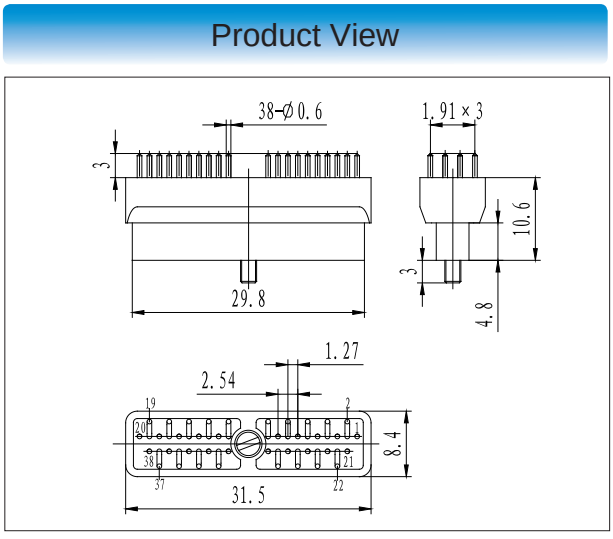
Plug

■ J30-38TJN

Product View



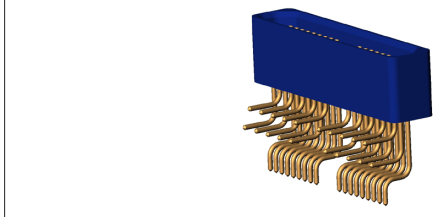
Product View



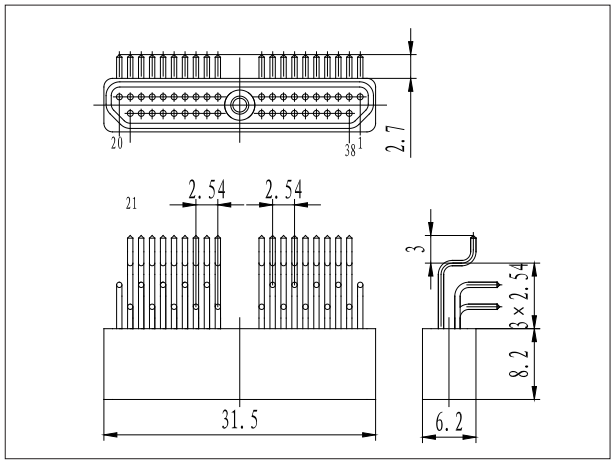
Plug

■ J30-38ZKN

Product View



Product View

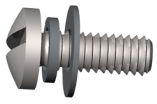


J30 Accessories

- J30 accessories come in several styles for mounting and locking the connector; order them separately as required.
- By function, J30 accessories fall into two groups: locking kits and mounting kits.
- Locking kits lock mated pairs reliably; fitted at the flying-lead free end, basic crimp series products.
- Mounting kits fix connectors to panels or PCBs; at the flying-lead fixed end, for series products.

Ln6.480.025 locking screw kit

Product View



Before fitting



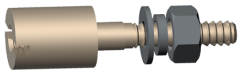
After fitting

used with Ln6.480.025 locking screw kit

Ordering Code	Main features	Mating part
Ln6. 480. 025	Made entirely of standard parts (screw M2 x 6)	Ln6. 480. 003 Ln6. 480. 028

Ln6.480.003 mounting screw kit

Product View

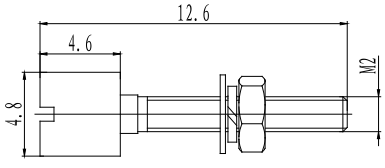


Before fitting



After fitting

Outline Dimensions



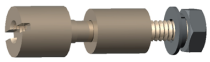
used with Ln6.480.003 mounting screw kit

Ordering Code	Main features	Mating part
Ln6. 480. 003	For front-panel mounting products	Ln6. 480. 025

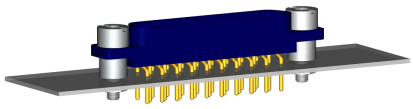
J30 Accessories

Ln6.480.028 mounting screw kit

Product View

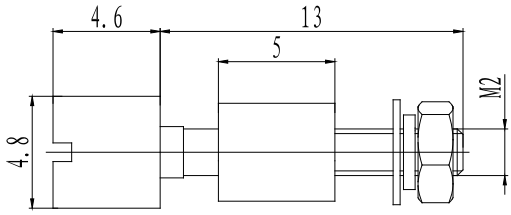


Before fitting



After fitting

Outline Dimensions

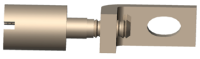


used with Ln6.480.028 mounting screw kit

Ordering Code	Main features	Mating part
Ln6. 480. 028	For vertical PCB-mount products; not more than 2.5 mm behind the board.	Ln6. 480. 025

Ln6.150.025, Ln6.150.026 mounting-bracket locking kit

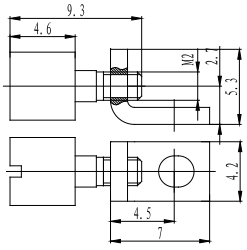
Product View



Before fitting

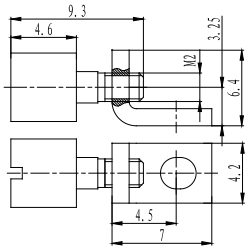
After fitting

Outline Dimensions



Ln6. 150. 025

Outline Dimensions



Ln6. 150. 026

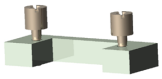
Used with Ln6.150.025, Ln6.150.026 mounting-bracket locking kit

Ordering Code	Application	Mating part
Ln6. 150. 025	J30-9, 15, 21, 25, 31, 37TJW / TJW-J / ZKW / ZKW-J	Ln6. 480. 025
Ln6. 150. 026	J30-51TJW/TJW-J/ZKW/ZKW-J	Ln6. 480. 025

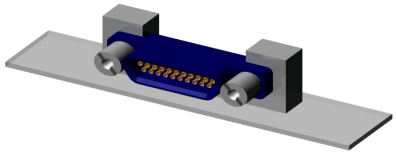
J30 Accessories

Ln6.150.0018, Ln6.150.0019 fixed-bracket locking kit

Product View

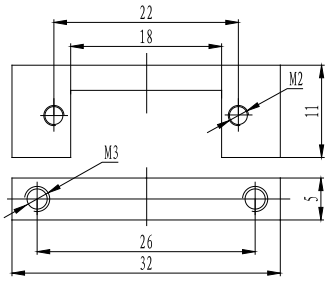


Before fitting



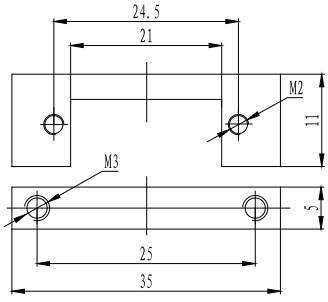
After fitting

Outline Dimensions



Ln6.150.0018

Outline Dimensions



Ln6.150.0019

Special note:

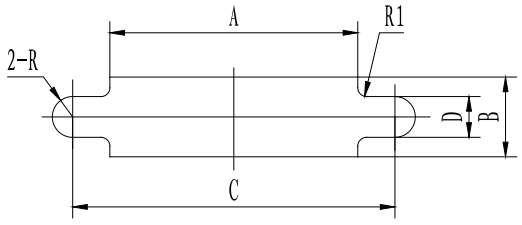
The fixed mounting-bracket locking kits above already include the Ln6.480.025 locking kit (not in the figure) plus Ln8.919.012 screws (not shown).

Used with Ln6.150.018, Ln6.150.019 fixed-bracket locking kit

Ordering Code	Application
Ln6.150.018	J30-9, 15, 21, 25, 31, 37TJW / TJW-J / ZKW / ZKW-J
Ln6.150.019	J30-51TJW/TJW-J/ZKW/ZKW-J

J30 Series Mounting Hole Dimensions
J30 Crimp Series Front-Panel Mounting Plate Hole Dimensions

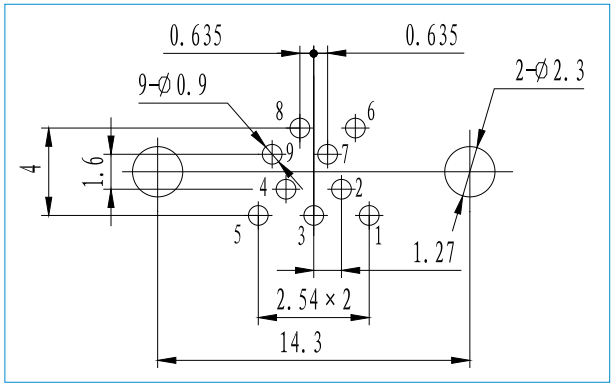
Crimp Series Front-Panel Mounting Plate Hole Dimensions



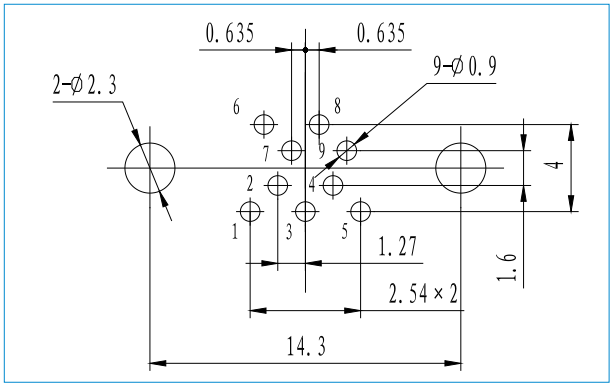
Arrangement	A	B	C	D
9-way	10.1	4.6	14.3	2.3
15-way	14.2	4.6	18.2	2.3
21-way	17.9	4.6	22	2.3
25-way	20.8	4.6	24.5	2.3
31-way	24.2	4.6	28.3	2.3
37-way	28.2	4.6	32.2	2.3
51-way	26.9	5.9	30.8	2.3

J30 Series PCB Hole Dimensions
J30— × TJN/ × ZKN

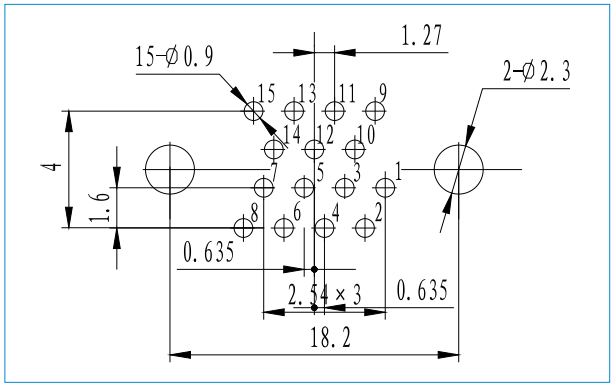
■ J30-9TJN



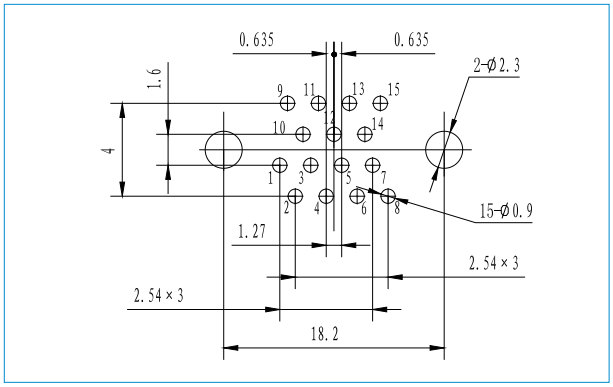
■ J30-9ZKN



■ J30-15TJN



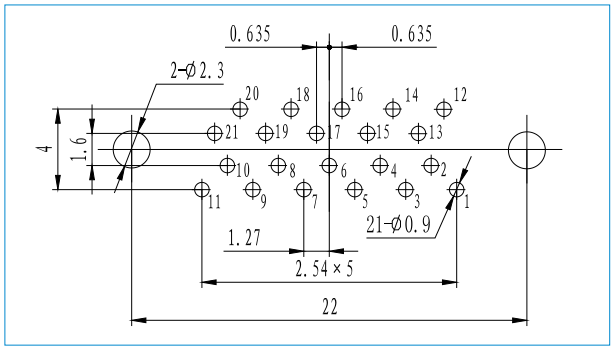
■ J30-15ZKN



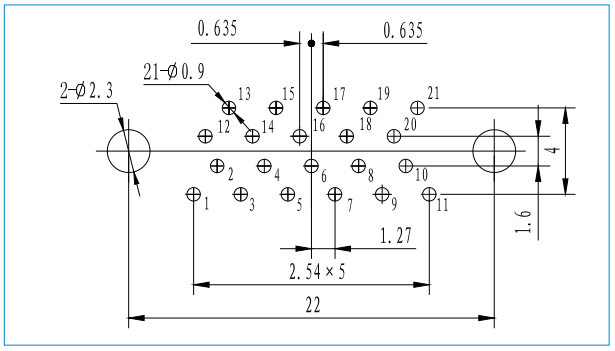
J30 Series PCB Hole Dimensions

J30— × TJN/ × ZKN

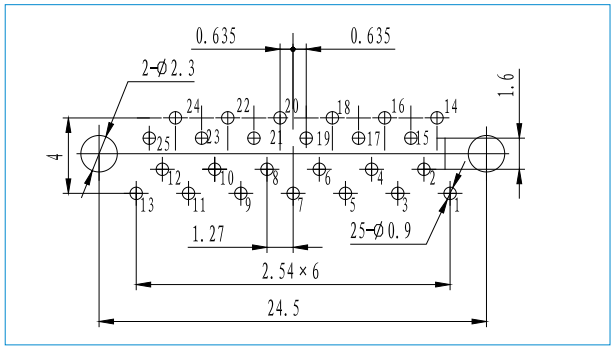
■ J30-21TJN



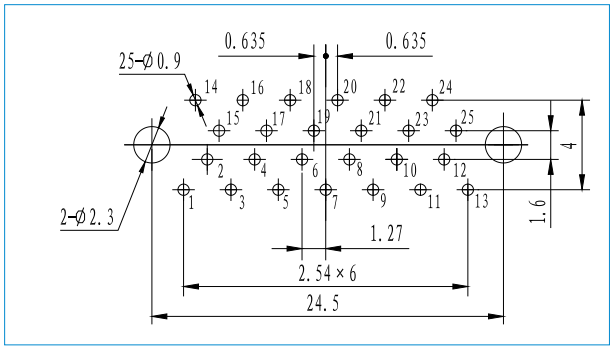
■ J30-21ZKN



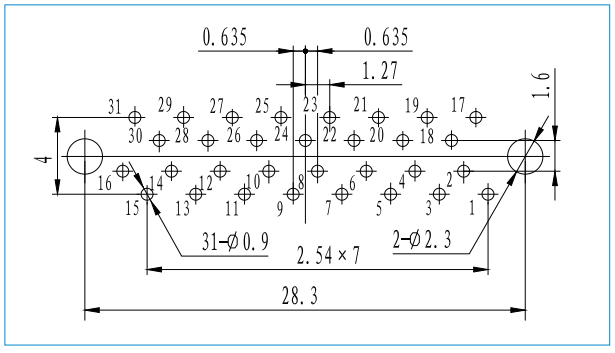
■ J30-25TJN



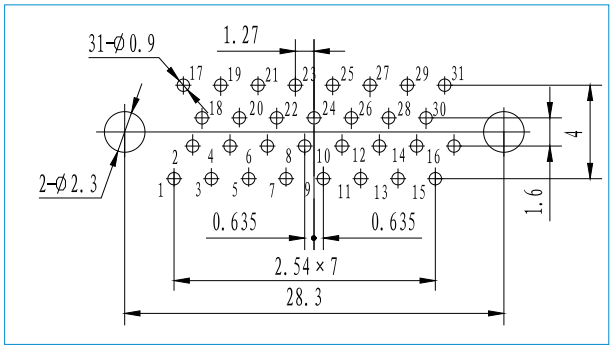
■ J30-25ZKN



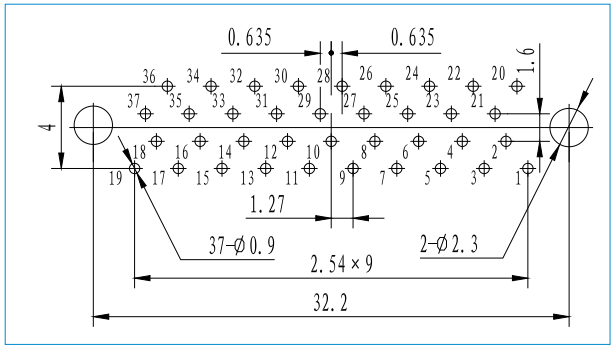
■ J30-31TJN



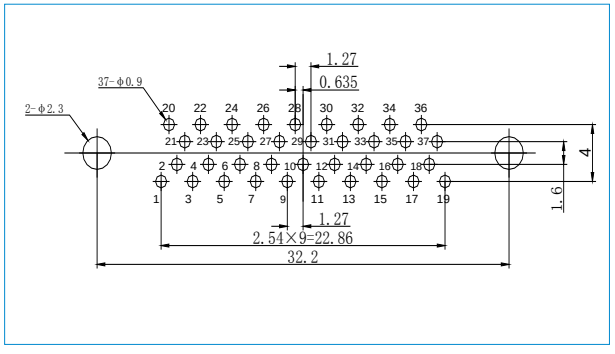
■ J30-31ZKN



■ J30-37TJN



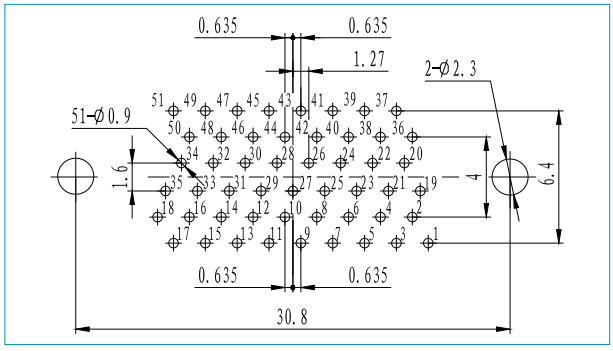
■ J30-37ZKN



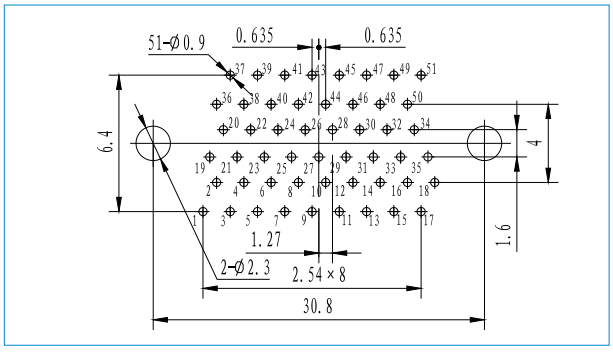
J30 Series PCB Hole Dimensions

J30— × TJN/ × ZKN

■ J30-51TJN

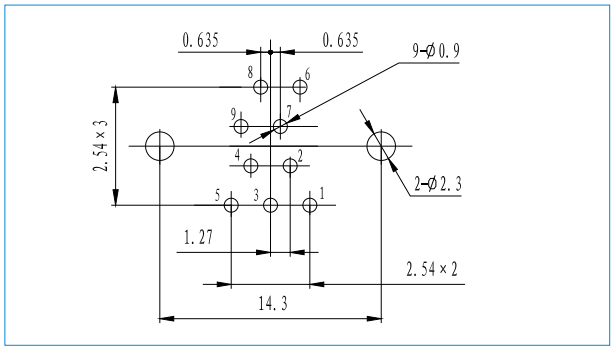


■ J30-51ZKN

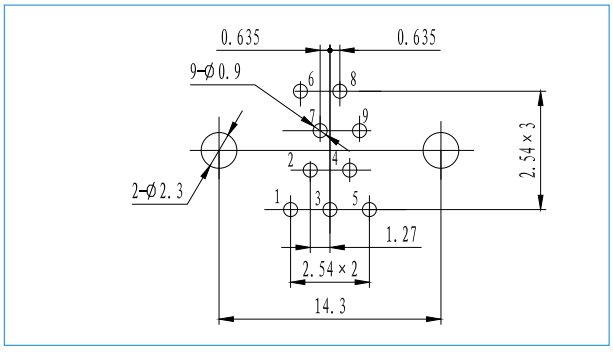


J30-xTJN1/xZKN1 (grid pitch 2.54 x 2.54)

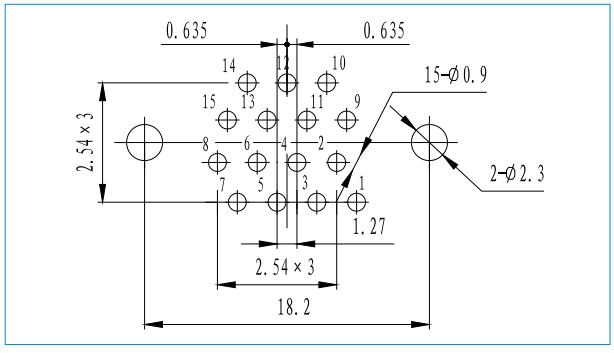
■ J30-9TJN1



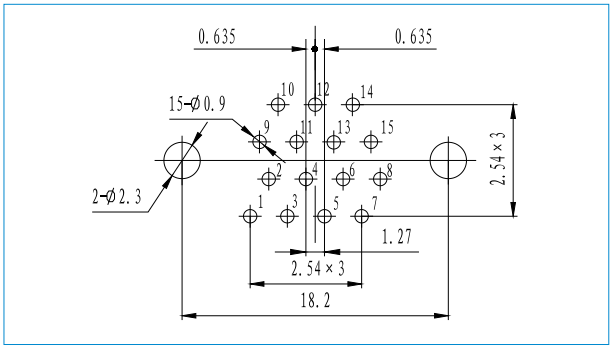
■ J30-9ZKN1



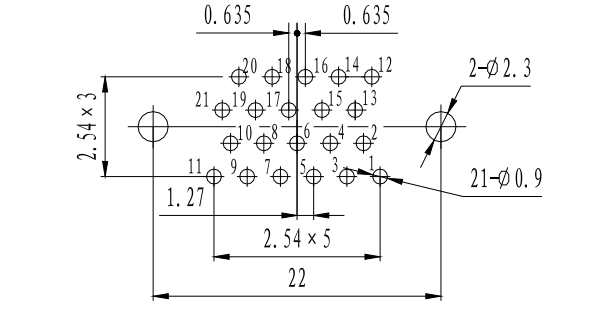
■ J30-15TJN1



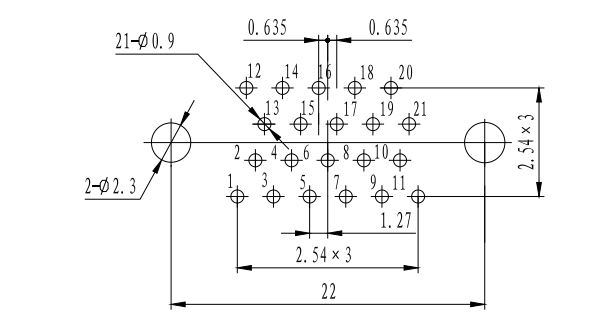
■ J30-15ZKN1



■ J30-21TJN1

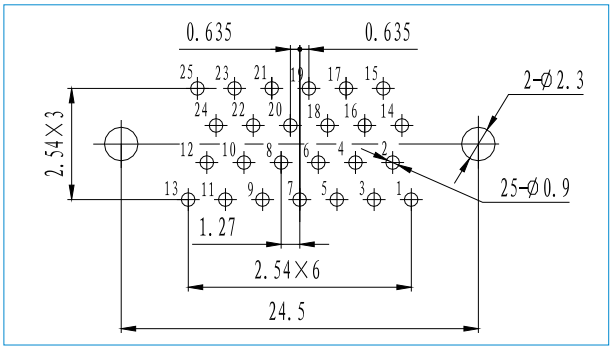


■ J30-21ZKN1

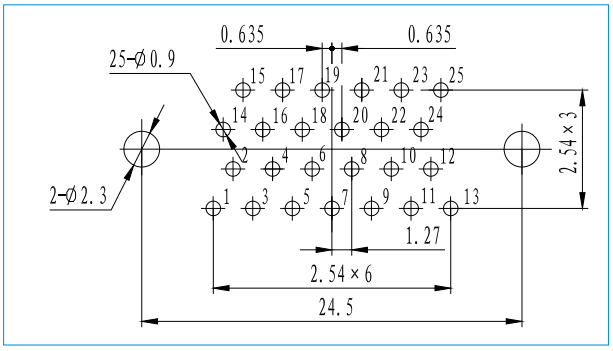


J30 Series PCB Hole Dimensions
J30-xTJN1/xZKN1 (grid pitch 2.54 x 2.54)

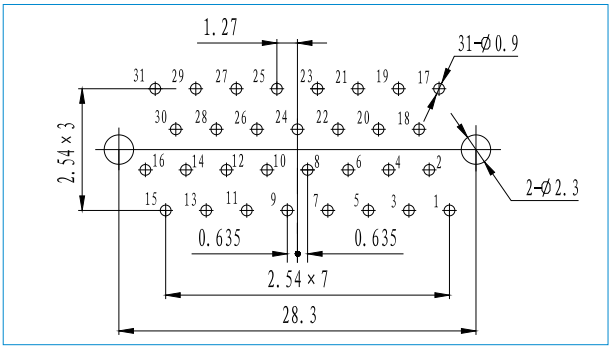
■ J30-25TJN1



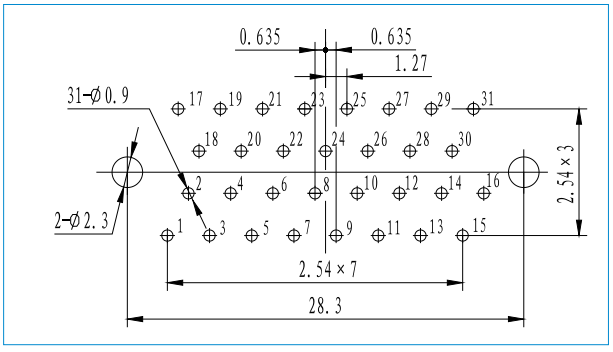
■ J30-25ZKN1



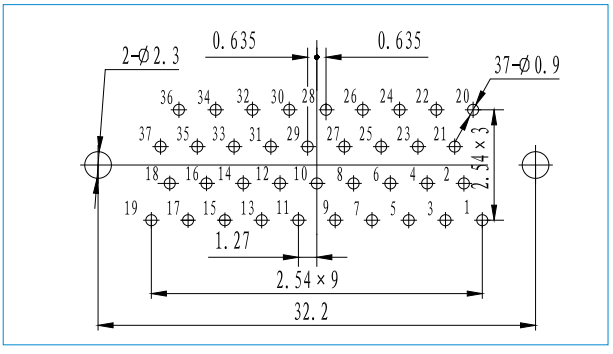
■ J30-31TJN1



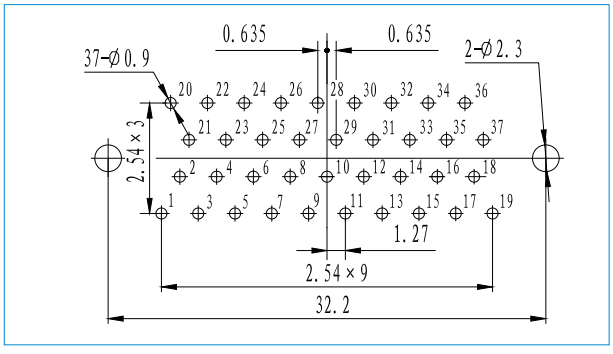
■ J30-31ZKN1



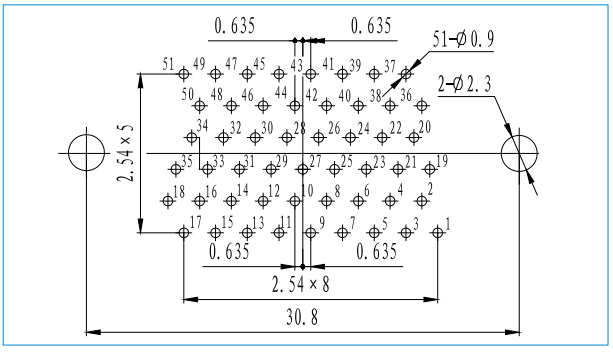
■ J30-37TJN1



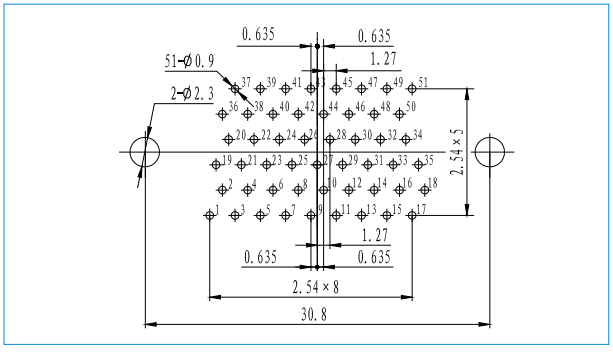
■ J30-37ZKN1



■ J30-51TJN1

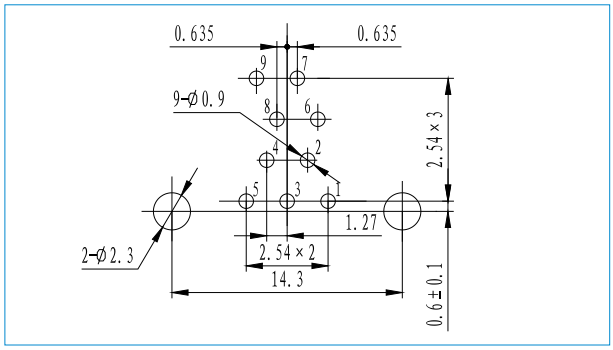


■ J30-51ZKN1

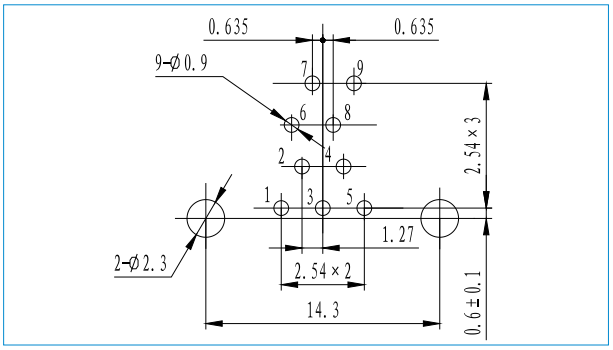


J30 Series PCB Hole Dimensions
J30-xTJW/xZKW (grid pitch 2.54 x 2.54)

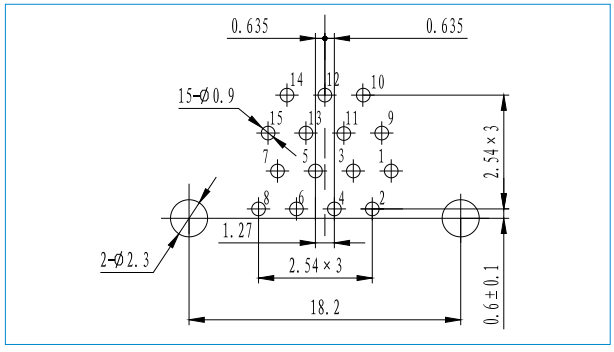
■ J30-9TJW



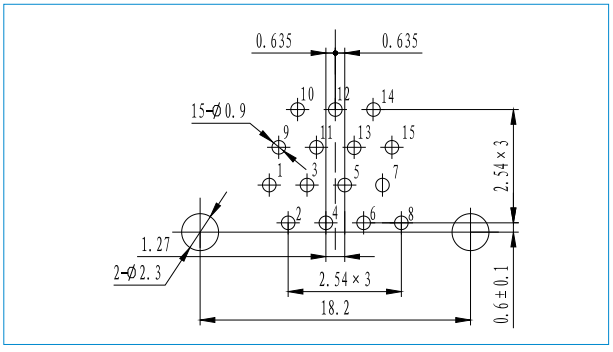
■ J30-9ZKW



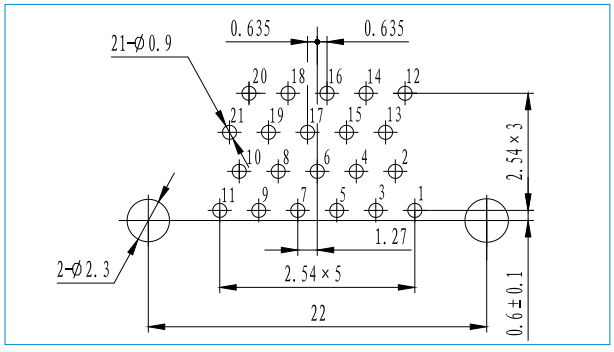
■ J30-15TJW



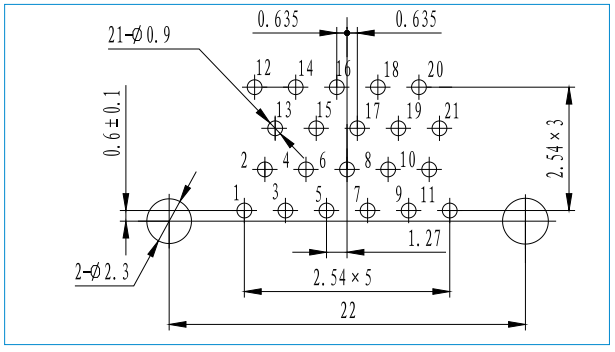
■ J30-15ZKW



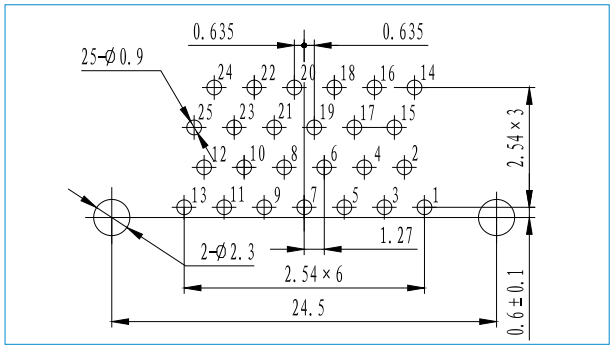
■ J30-21TJW



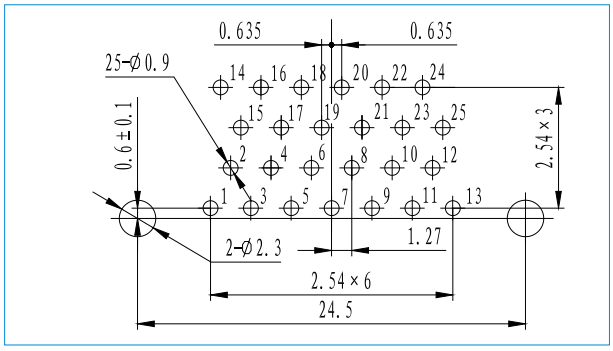
■ J30-21ZKW



■ J30-25TJW

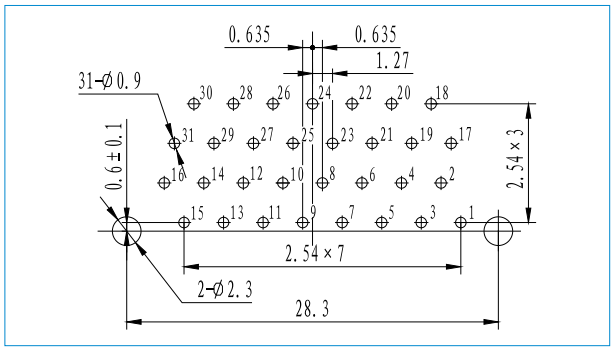


■ J30-25ZKW

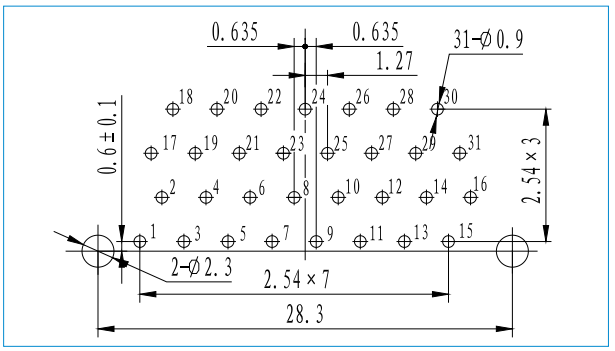


J30 Series PCB Hole Dimensions
J30-xTJW/xZKW (grid pitch 2.54 x 2.54)

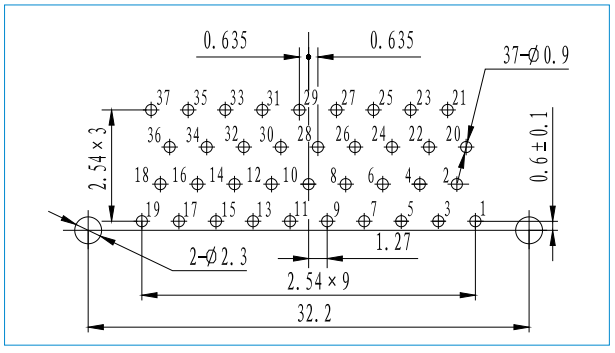
■ J30-31TJW



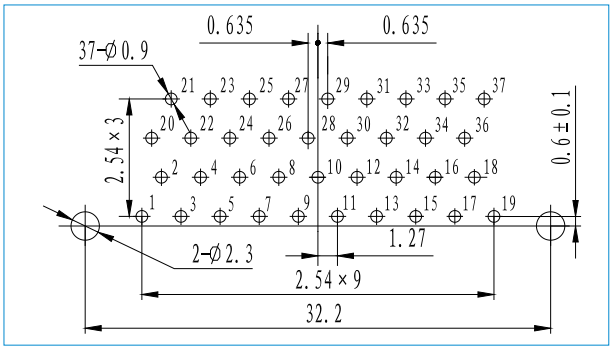
■ J30-31ZKW



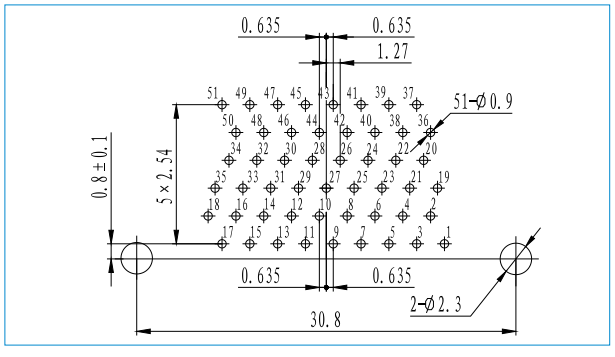
■ J30-37TJW



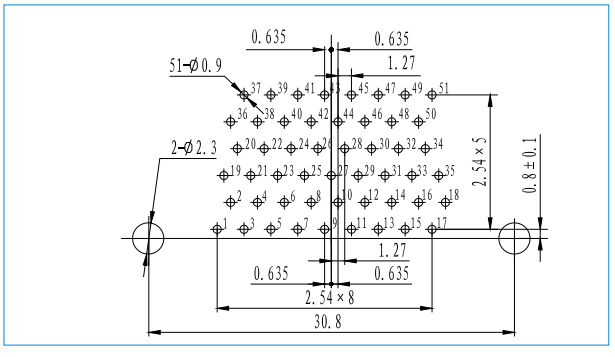
■ J30-37ZKW



■ J30-51TJW

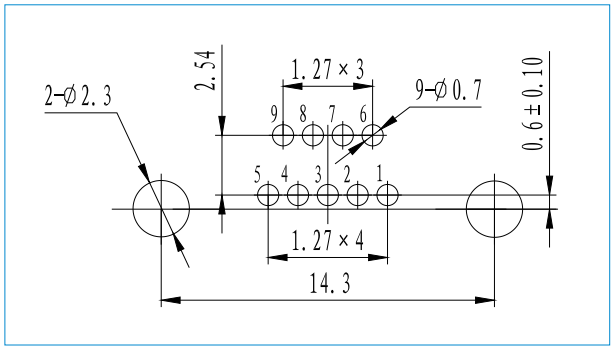


■ J30-51ZKW

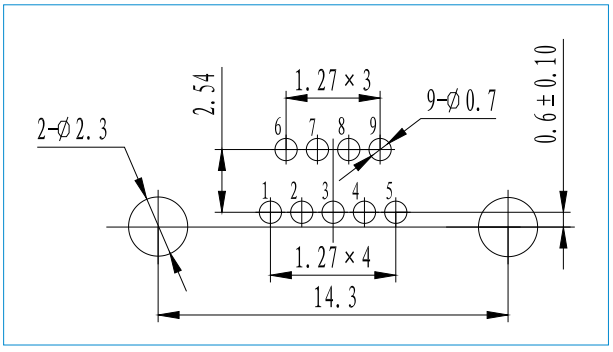


J30 Series PCB Hole Dimensions
J30-xTJW-J/xZKW-J (grid pitch 2.54 x 2.54)

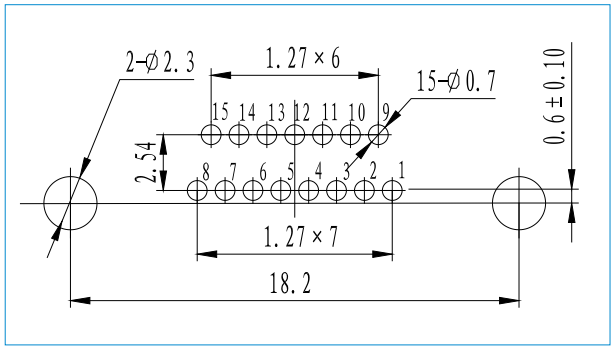
■ J30-9TJW-J



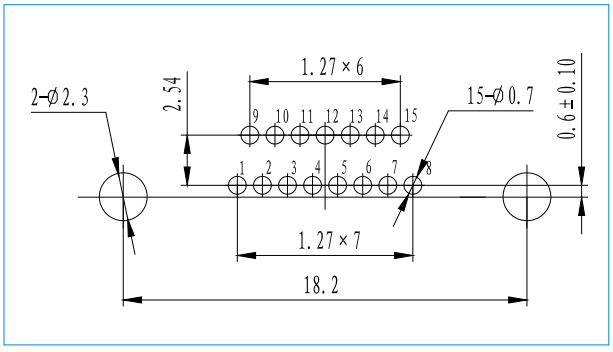
■ J30-9ZKW-J



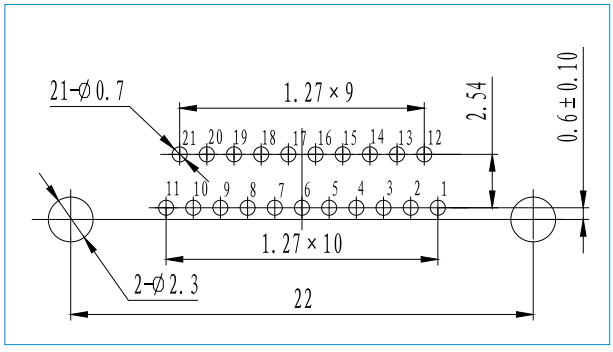
■ J30-15TJW-J



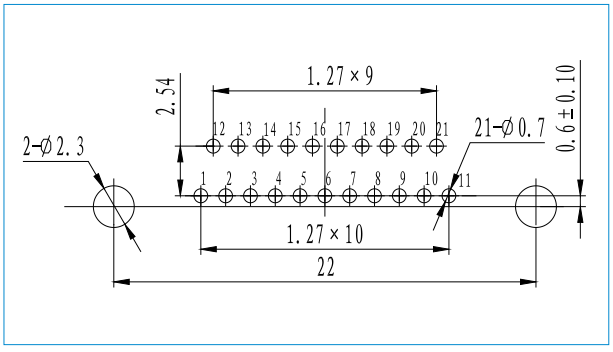
■ J30-15ZKW-J



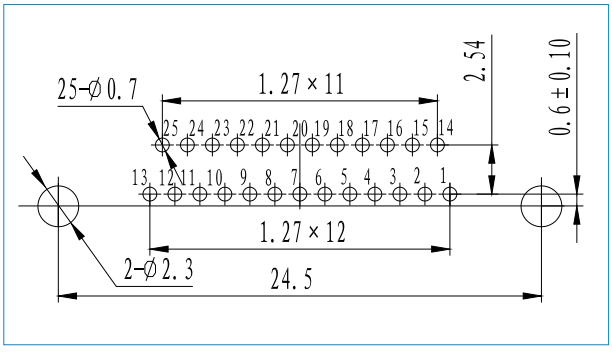
■ J30-21TJW-J



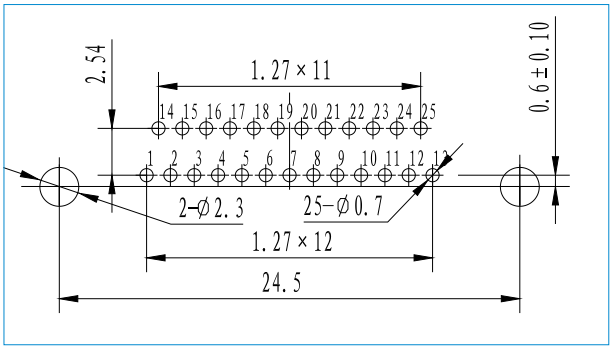
■ J30-21ZKW-J



■ J30-25TJW-J

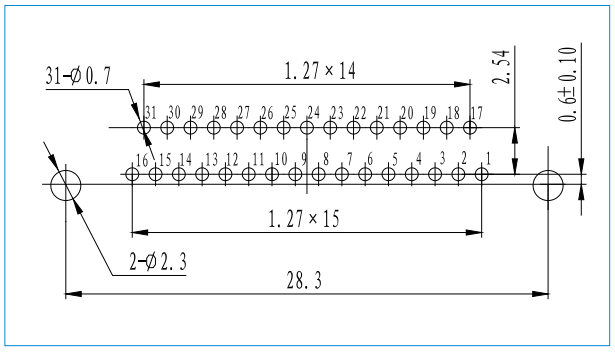


■ J30-25ZKW-J

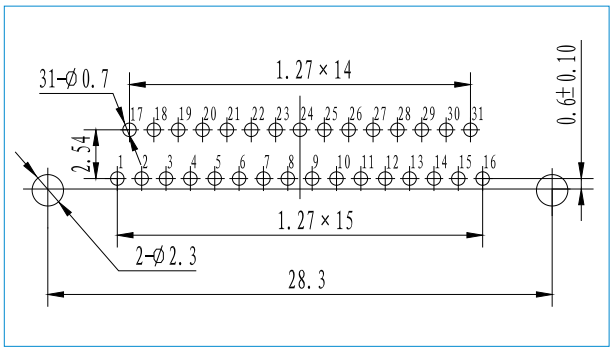


J30 Series PCB Hole Dimensions
J30-xTJW-J/xZKW-J (grid pitch 2.54 x 2.54)

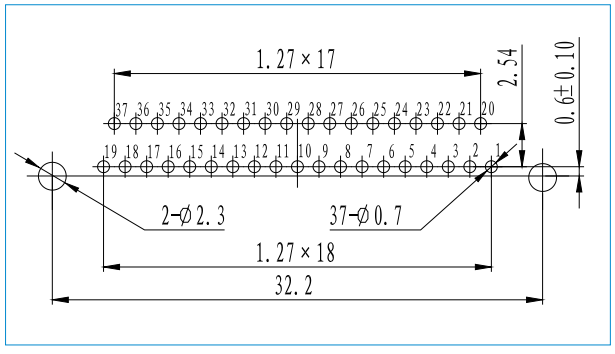
■ J30-31TJW-J



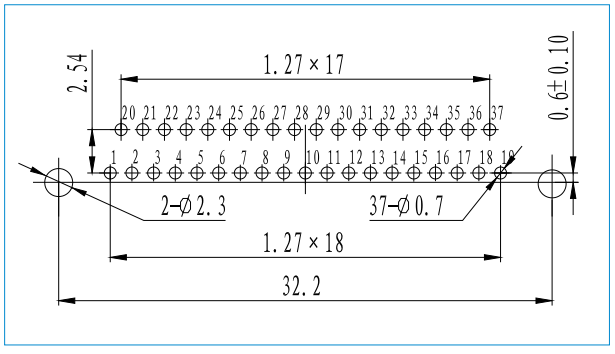
■ J30-31ZKW-J



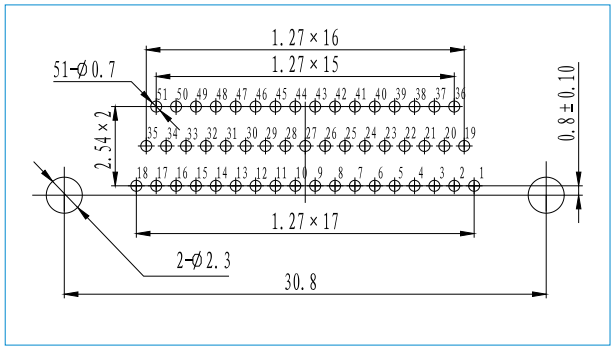
■ J30-37TJW-J



■ J30-37ZKW-J



■ J30-51TJW-J



■ J30-51ZKW-J

