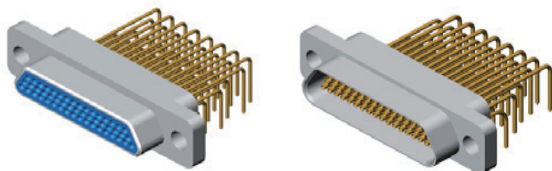


MIL-DTL-83513 Micro-D Connectors

R04J Series Right Angle to PCB Connectors

Brief Introduction

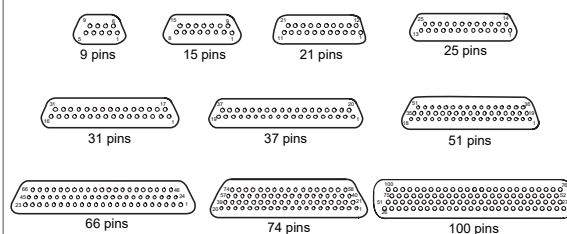


- Micro-D Connectors
- Twist Pin Contacts, High Density
- Metal Shell, Nickel or Cadmium Plating
- Right Angle to PCB Connectors
- Meets MIL-DTL-83513

Specifications

- Environment Temperature: -55°C~+125°C
- Vibration: 10Hz~2000Hz, 196m/s²
- Random Vibration: Power spectrum density 0.4G²/Hz
root mean square value of total acceleration 23.1G
- Shock: 735m/s² 11ms
- Rated Current: 3A
- Contact Resistance: ≤10mΩ
- Insulation Resistance: ≥5000MΩ
- Dielectric Strength: 800V
- Durability: 500 times

Contact Arrangements



How To Order

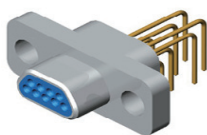
Sample Part Number	R04J	-25	PI	F	1	Q7	G	-J
Series: R04J—Standard Type R04JA—Fast Lock Type								
Contact Number: 9, 15, 21, 25, 31, 37, 51, 66, 74, 100pins								
Contact Type: PI—Pin in Plug RH—Socket in Receptacle								
Tail Termination Type: F—90° Right Angle to PCB								
Tail Length: 1—3.0mm 2—5.5mm								
Locking Hardware Type: Q7—Locking Hardware (See page 2) No Code—No Locking Hardware								
Shell Material and Finish: G—Aluminum Shell, Cadmium Plating No Code—Aluminum Shell, Nickel Plating								
PCB layout: J—1.27*2.54mm No Code—2.54*2.54mm								

Type	A	B	Outline Dimensions	Assembly Picture	Matched with Locking Hardware
W	M2-6h	7.1			Q,Q0,Q2,Q3,Q4,Q5,Q7,Q8,Q9,Q10,Q11, Q14,Q15,Q17,Q23,Q25,Q29,Q32,Q35, Q36,Q37,Q41,Q42,Q43,Q45,Q46
W8	#2-56UNC-2A	7.1			Q1
W7	M2-6h	7.1			Q,Q0,Q2,Q3,Q4,Q5,Q7,Q8,Q9,Q10,Q11, Q14,Q15,Q17,Q23,Q25,Q29,Q32,Q35, Q36,Q37,Q41,Q42,Q43,Q45,Q46
N	M2-6h				Q,Q0,Q2,Q3,Q4,Q5,Q7,Q8,Q9,Q10,Q11, Q14,Q15,Q17,Q23,Q25,Q29,Q32,Q35, Q36,Q37,Q41,Q42,Q43,Q45,Q46
N1	#2-56UNC-2A				Q1

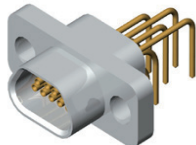
Type	Pin Count	A	B	C	D	E	Outline Dimensions	Assembly Picture	Matched with Locking Hardware
Q2	9~37	4.2	7.6	11.6	3.7	1			W, W7, W9, N Note: Use with rear panel mounting right angle to PCB connectors
	51	4.2	8.7	11.6	3.7	1			
	74	4.2	9.7	11.6	3.7	1			
	100	8.8	9.7	11.6	3.7	1			
Q14	9~37	4.2	7.6	10.7	1.7	3			W, W7, W9, N Note: Use with front panel mounting right angle to PCB connectors
	51	4.2	8.7	10.7	1.7	3			
	74	4.2	9.7	10.7	1.7	3			
	100	8.8	9.7	10.7	1.7	3			
Q7	9~37	4.2	7.6	10.7					W, W7, W9, N Note: Use with front panel mounting right angle to PCB connectors
	51	4.2	8.7	10.7					
	74	4.2	9.7	10.7					
	100	8.8	9.7	10.7					
Q42	9~37	4.2	7.6	9.7					W, W7, W9, N Note: Use with front panel mounting right angle to PCB connectors
	51	4.2	8.7	9.7					
	74	4.2	9.7	9.7					
	100	8.8	9.7	9.7					
Q15	9~37	7.6	1.9	2.5	9.7				W, W7, W9, N Note: Use with front panel mounting for R04J-9~51PI/RHF-Q8
	51	8.7	1.9	2.5	9.7				
Q35	9~37	7.6	2.4	1.8	9.5				W, W7, W9, N Note: Use with front panel mounting for R04J-9~51PI/RHF-Q8
	51	8.7	2.4	1.8	9.5				
V1	9~37	4.2	7.6	9.7					Note: No need to lock with free end locking hardware
	51	4.2	8.7	9.7					
	74	4.2	9.7	9.7					
	100	8.8	9.7	9.7					

2. All dimensions are in mm.

R04J Series Right Angle To PCB Connectors - Basic Type



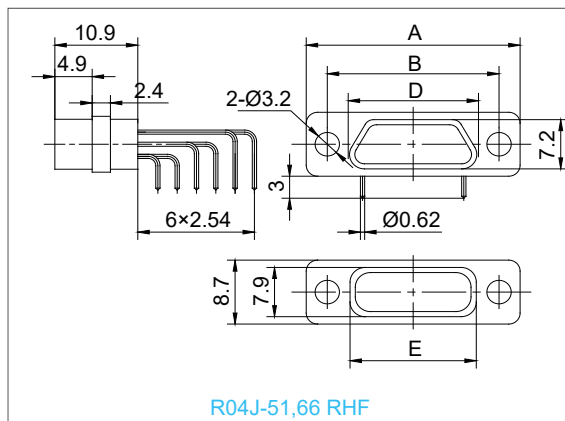
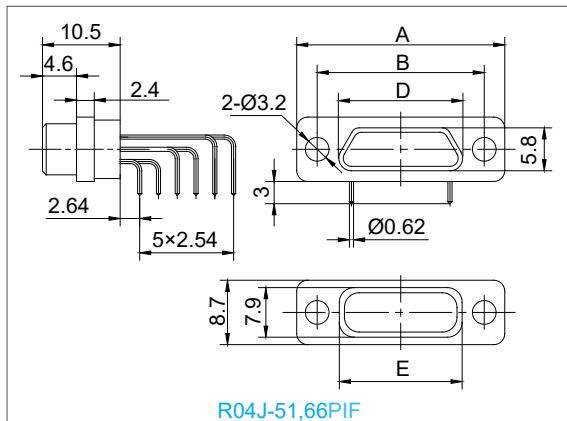
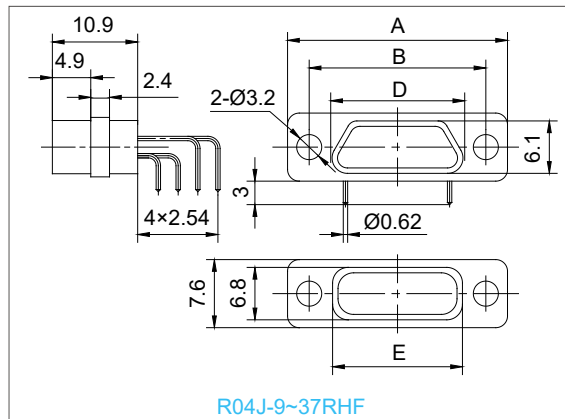
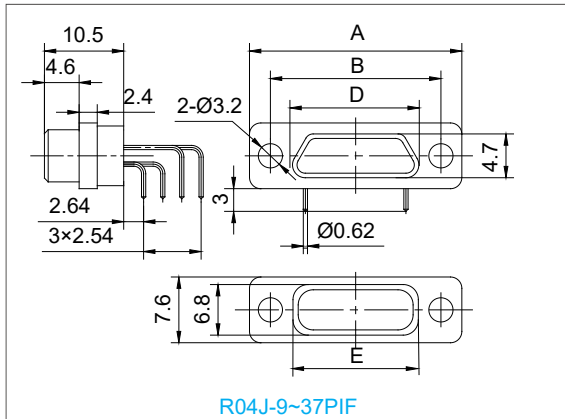
Plug:PIF



Receptacle:RHF

- **Shell Plating:** Nickel or Cadmium
- **PCB Layout:** 2.54*2.54mm
- **Contacts:**
R04J- 9, 15, 21, 25, 31, 37, 51, 66PI/RHF

Outline Dimensions

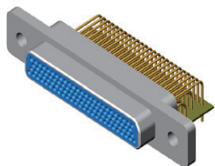


Part Number	A	B	D		E
			PIF	RHF	
R04J-9PI/RHF	19.6	14.3	8.3	9.8	9.9
R04J-15PI/RHF	23.5	18.2	12.3	13.7	13.8
R04J-21PI/RHF	27.4	22	16	17.4	17.6
R04J-25PI/RHF	29.8	24.5	18.6	20	20.2
R04J-31PI/RHF	33.6	28.3	22.4	23.8	24
R04J-37PI/RHF	37.4	32.2	26.3	27.7	27.8
R04J-51PI/RHF	36.4	30.86	25	26.5	26.6
R04J-66PI/RHF	42.9	37.3	31.4	32.9	33

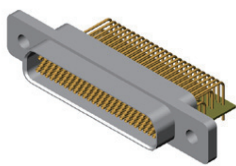
Remark: All dimensions are in mm.



R04J Series Right Angle To PCB Connectors - Type J



Plug:PIF-J



Receptacle:RHF-J

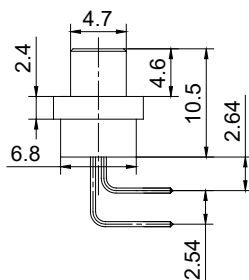
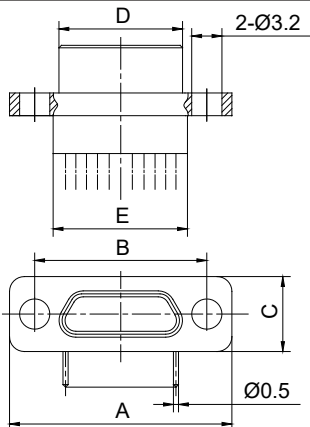
■ **Shell Plating:** Nickel or Cadmium

■ **PCB Layout:** 1.27*2.54mm

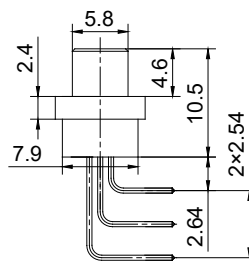
■ **Contacts:**

R04J- 9, 15, 21, 25, 31, 37, 51, 66, 74, 100PI/RHF-J

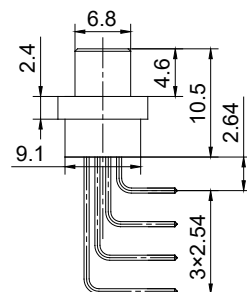
Outline Dimensions



R04J-9~37PIF-J

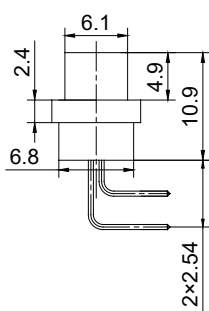
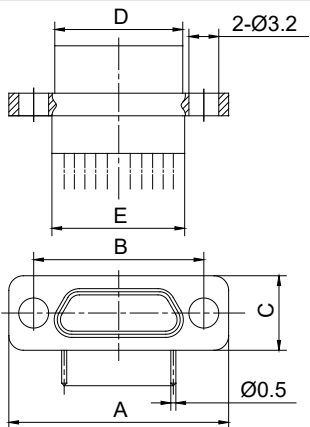


R04J-51,66PIF-J

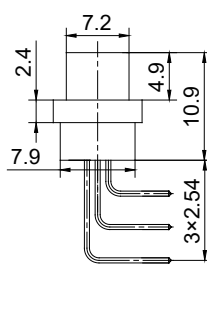


R04J-74,100PIF-J

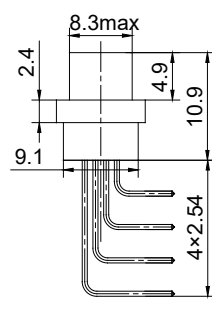
R04J-9~100PIF-J



R04J-9~37RHF-J



R04J-51,66RHF-J



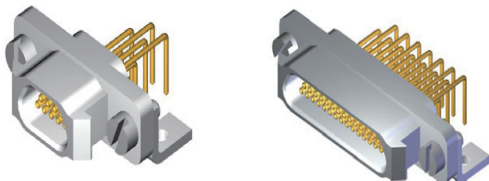
R04J-74,100RHF-J

R04J-9~100RHF-J

Part Number	A	B	C	D		E
				PIF-J	RHF-J	
R04J-9PI/RHF-J	19.6	14.3	7.6	8.3	9.8	9.9
R04J-15PI/RHF-J	23.5	18.2	7.6	12.3	13.7	13.8
R04J-21PI/RHF-J	27.4	22	7.6	16	17.4	17.6
R04J-25PI/RHF-J	29.8	24.5	7.6	18.6	20	20.2
R04J-31PI/RHF-J	33.6	28.3	7.6	22.4	23.8	24
R04J-37PI/RHF-J	37.4	32.2	7.6	26.3	27.7	27.8
R04J-51PI/RHF-J	36.4	30.86	8.7	25	26.5	26.6
R04J-66PI/RHF-J	42.9	37.3	8.7	31.4	32.9	33
R04J-74PI/RHF-J	38.8	33.5	9.7	27.5	29	29.1
R04J-100PI/RHF-J	54.7	45.7	9.7	35	36.6	36.6

Remark: All dimensions are in mm.

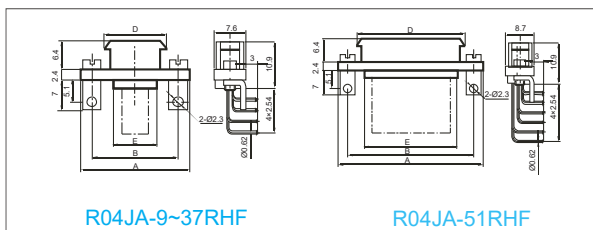
R04JA Series Right Angle To PCB Connectors - Basic Type



Receptacle: R04JA-*RHF

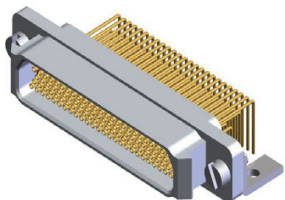
- With Fast Lock Function
- **Shell Plating:** Nickel or Cadmium
- **PCB Layout:** 2.54*2.54mm
- Receptacle Connectors
- **Contacts:**
R04JA- 9, 15, 21, 25, 31, 37, 51RHF

Outline Dimensions



Part Number	A	B	D	E
R04JA-9RHF	23.4	18.6	14.3	9.8
R04JA-15RHF	27.4	22.6	18.3	13.8
R04JA-21RHF	31.1	26.3	22	17.5
R04JA-25RHF	33.7	28.9	24.6	20.1
R04JA-31RHF	37.5	32.7	28.4	24.1
R04JA-37RHF	41.4	36.6	32.3	27.8
R04JA-51RHF	40.1	35.5	31	26.5

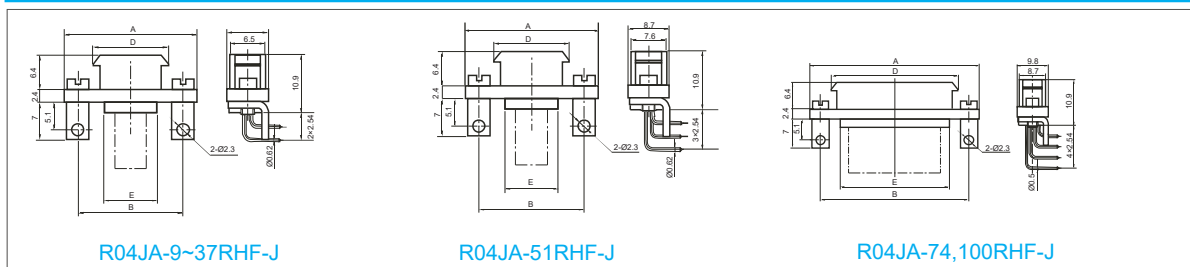
R04JA Series Right Angle To PCB Connectors - Type J



Receptacle: R04JA-*RHF-J

- With Fast Lock Function
- **Shell Plating:** Nickel or Cadmium
- **PCB Layout:** 1.27*2.54mm
- Receptacle Connectors
- **Contacts:**
R04JA- 9, 15, 21, 25, 31, 37, 51, 66, 74, 100RHF-J

Outline Dimensions



Part Number	A	B	D	E
R04JA-9RHF-J	23.4	18.6	14.3	9.8
R04JA-15RHF-J	27.4	22.6	18.3	13.8
R04JA-21RHF-J	31.1	26.3	22	17.5
R04JA-25RHF-J	33.7	28.9	24.6	20.1
R04JA-31RHF-J	37.5	32.7	28.4	24.1
R04JA-37RHF-J	41.4	36.6	32.3	27.8
R04JA-51RHF-J	40.1	35.3	31	26.5
R04JA-74RHF-J	42.6	37.8	33.5	29
R04JA-100RHF-J	50.1	45.3	41	36.5

Remark: All dimensions are in mm.

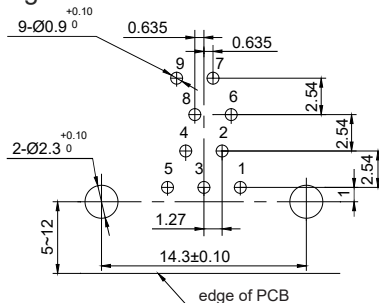


R04J Series Right Angle to PCB Connectors Basic Type--PCB Layout

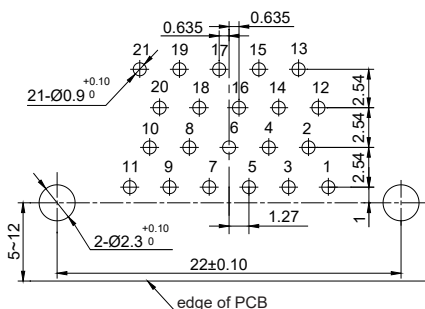
■ Patterns Shown are for Connectors Mounting Side of PC Board

■ PCB Layout: 2.54*2.54mm

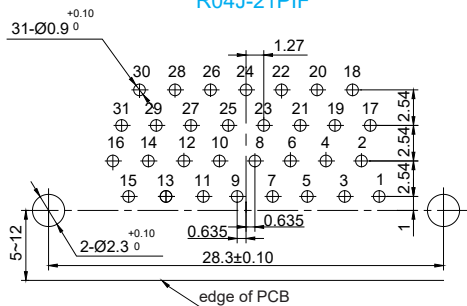
■ Plug Connectors: R04J-9~66PIF



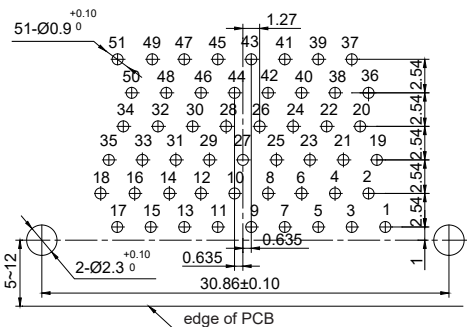
R04J-9PIF



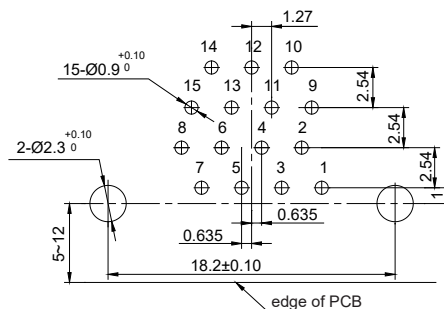
R04J-21PIF



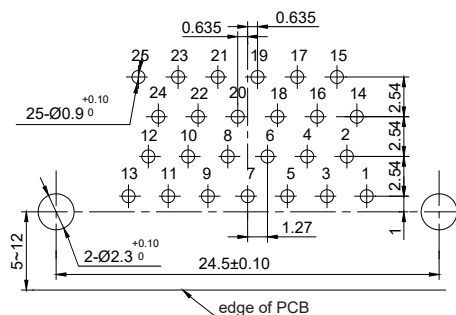
R04J-31PIF



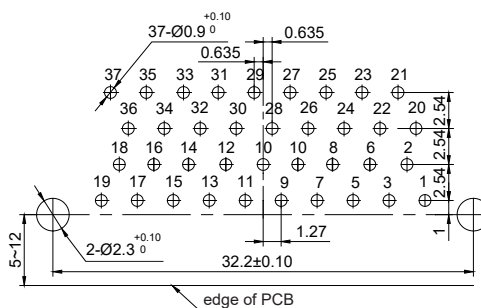
R04J-51PIF



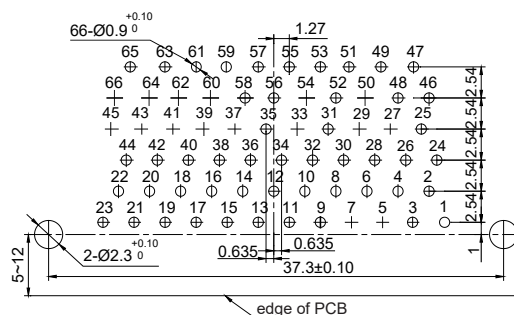
R04J-15PIF



R04J-25PIF



R04J-37PIF

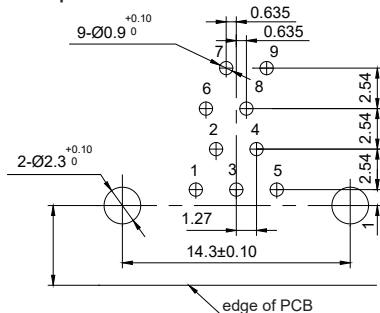


R04J-66PIF

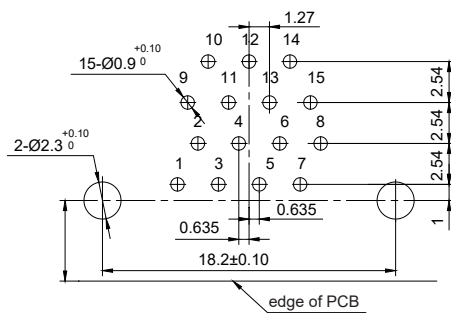
Remark: All dimensions are in mm.

R04J Series Right Angle to PCB Connectors Basic Type--PCB Layout

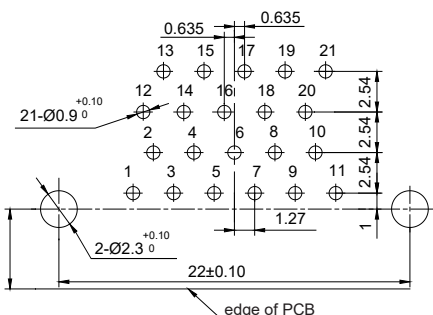
- Patterns Shown are for Connectors Mounting Side of PC Board
- PCB Layout: 2.54*2.54mm
- Receptacle Connectors: R04J-9~66RHF



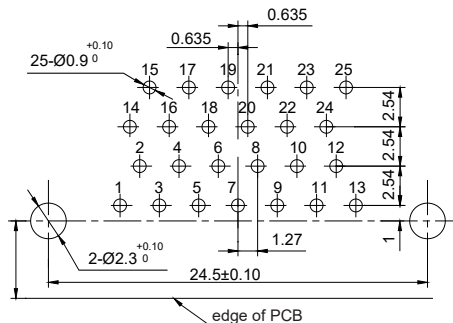
R04J-9RHF



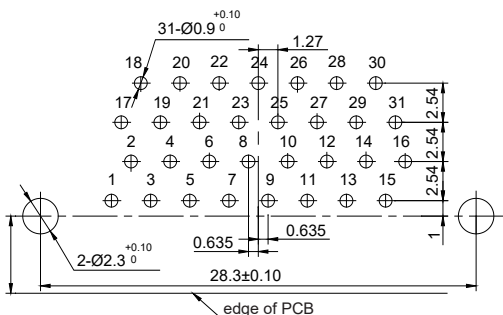
R04J-15RHF



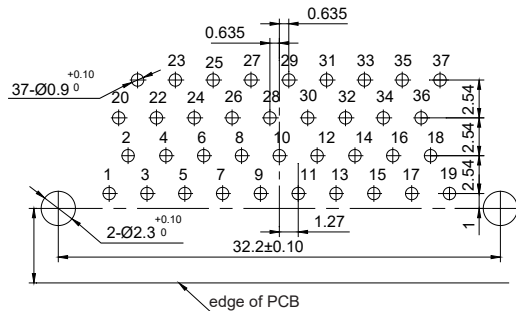
R04J-21RHF



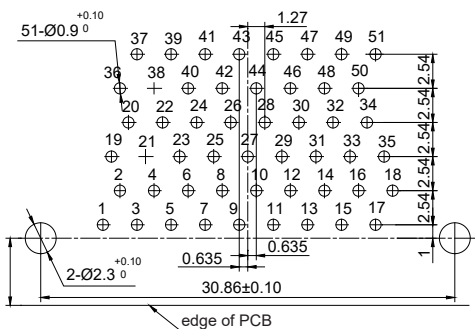
R04J-25RHF



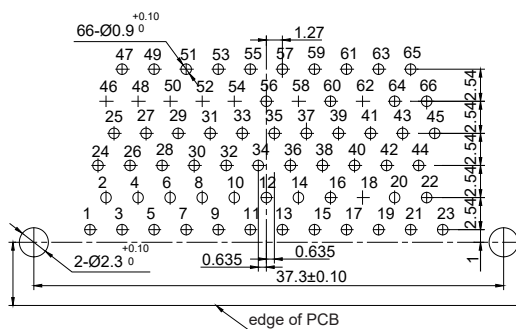
R04J-31RHF



R04J-37RHF



R04J-51RHF



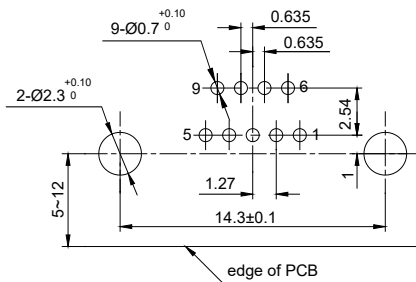
R04J-66RHF

Remark: All dimensions are in mm.

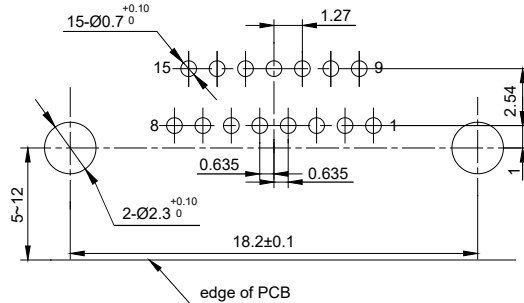


R04J Series Right Angle to PCB Connectors Type J--PCB Layout

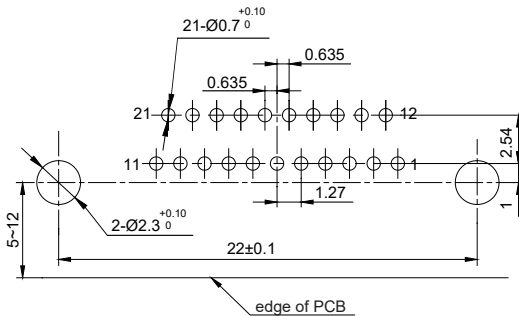
- Patterns Shown are for Connectors Mounting Side of PC Board
- PCB Layout: 1.27*2.54mm
- Plug Connectors: R04J-9~100PIF-J



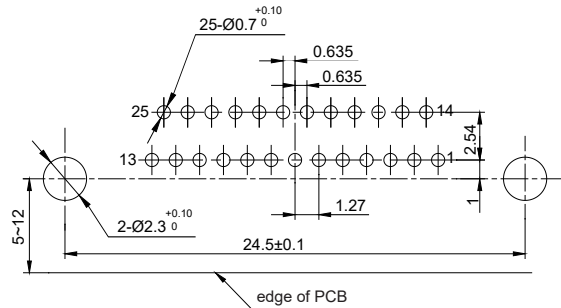
R04J-9PIF-J



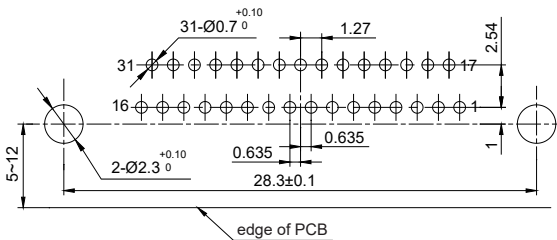
R04J-15PIF-J



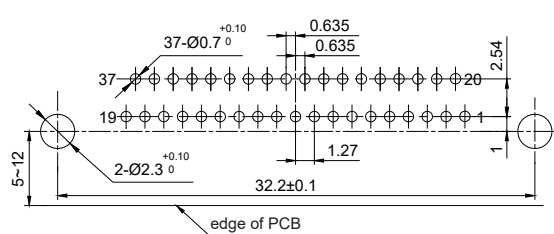
R04J-21PIF-J



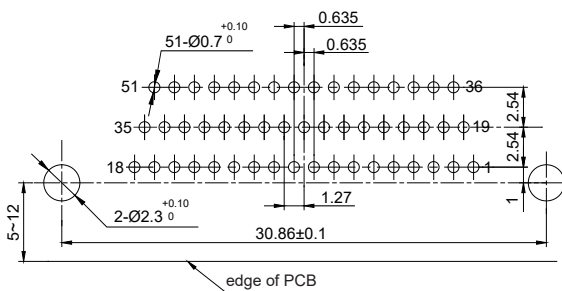
R04J-25PIF-J



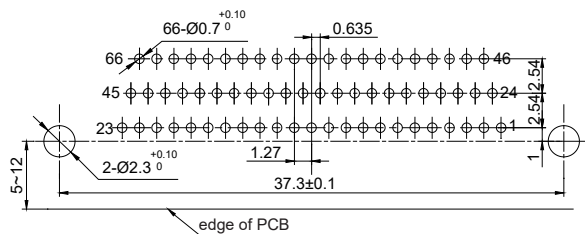
R04J-31PIF-J



R04J-37PIF-J

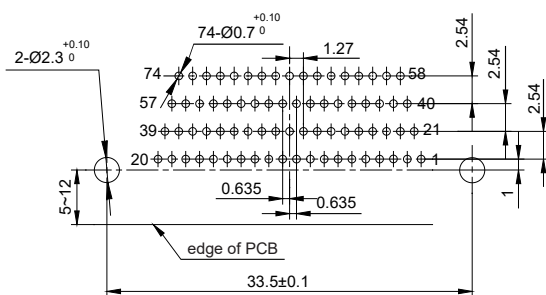


R04J-51PIF-J

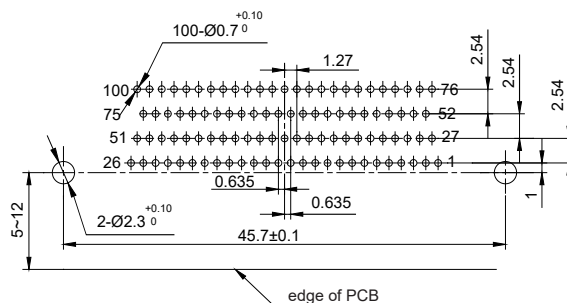


R04J-66PIF-J

Remark: All dimensions are in mm.



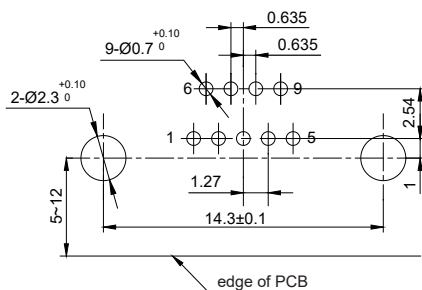
R04J-74PIF-J



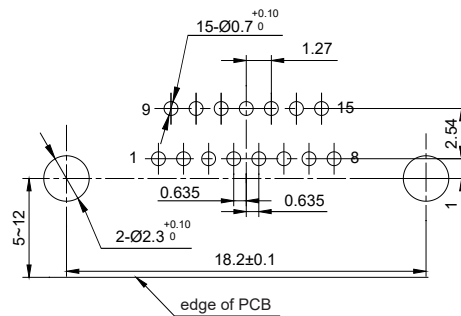
R04J-100PIF-J

R04J Series Right Angle to PCB Connectors Type J--PCB Layout

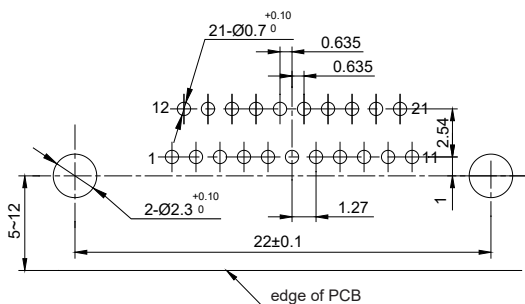
- Patterns Shown are for Connectors Mounting Side of PC Board
- PCB Layout: 1.27*2.54mm
- Receptacle Connectors: R04J-9~100RHF-J



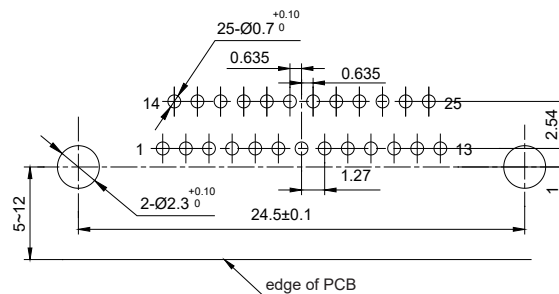
R04J-9RHF-J



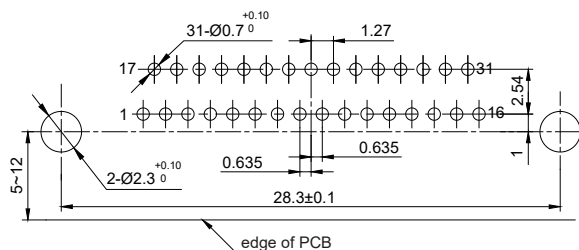
R04J-15RHF-J



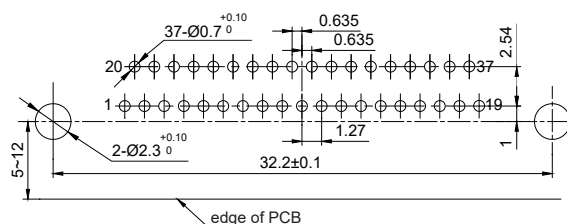
R04J-21RHF-J



R04J-25RHF-J

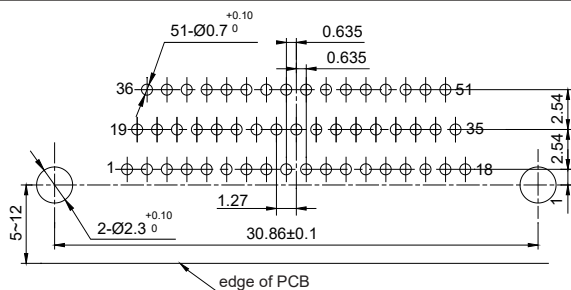


R04J-31RHF-J

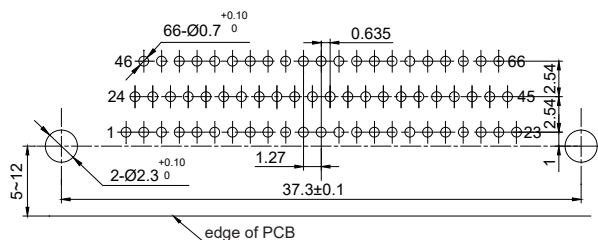


R04J-37RHF-J

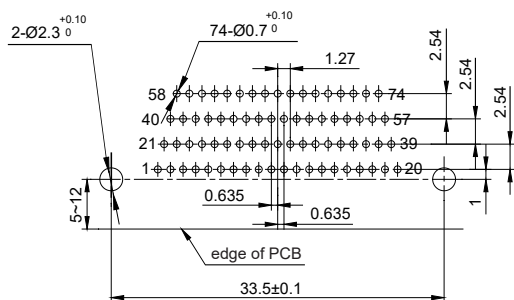
Remark: All dimensions are in mm.



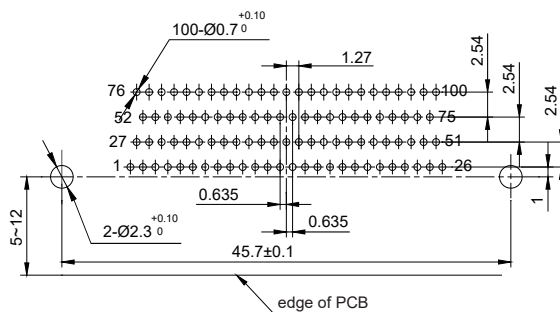
R04J-51RHF-J



R04J-66RHF-J



R04J-74RHF-J



R04J-100RHF-J

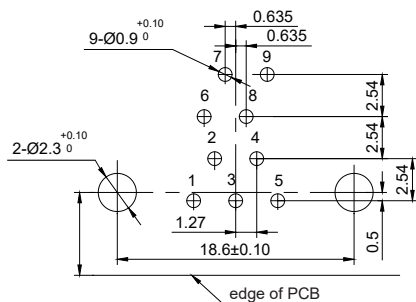
Remark: All dimensions are in mm.

R04JA Series Right Angle to PCB Connectors Basic Type--PCB Layout

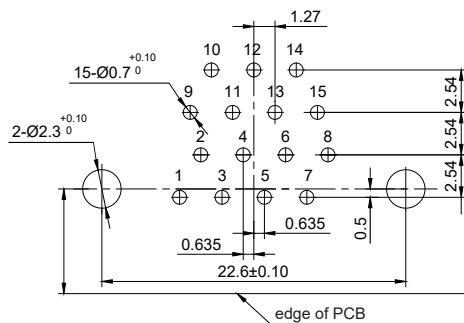
■ Patterns Shown are for Connectors Mounting Side of PC Board

■ PCB Layout: 2.54*2.54mm

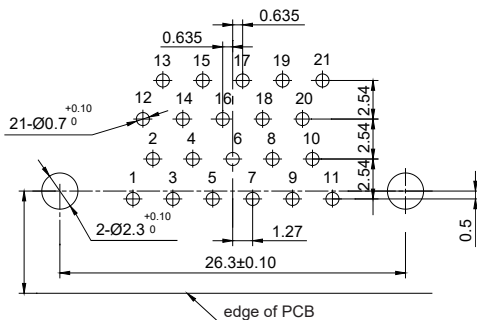
■ Receptacle Connectors: R04JA-9~51RHF



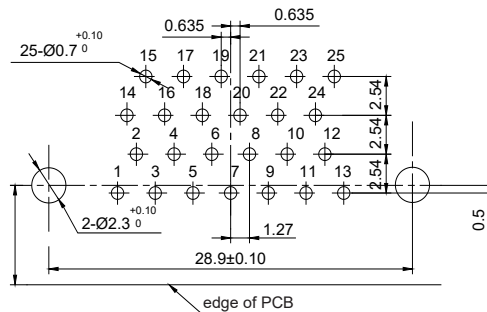
R04JA-9RHF



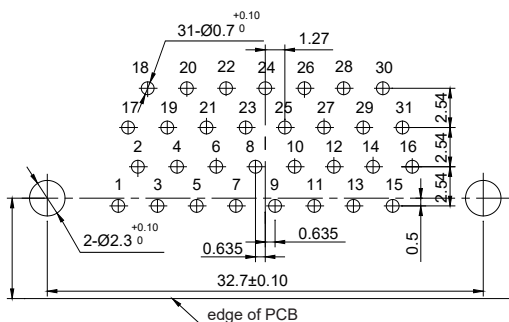
R04JA-15RHF



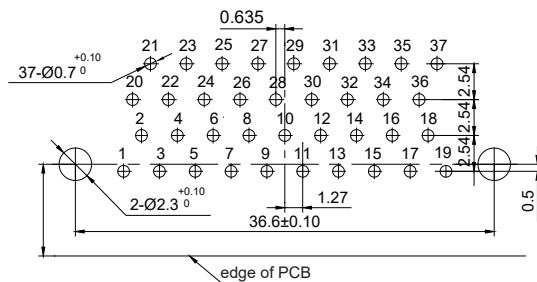
R04JA-21RHF



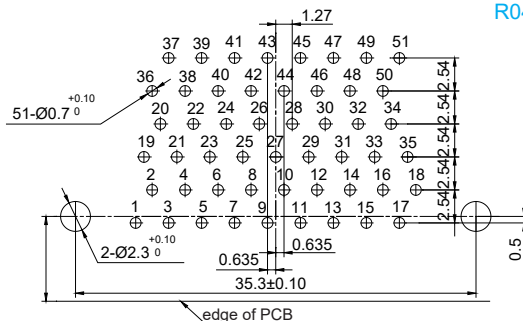
R04JA-25RHF



R04JA-31RHF



R04JA-37RHF



R04JA-51RHF

Remark: All dimensions are in mm.