

MIL-DTL-83513 Micro-D Connectors

R04A Series Right Angle To PCB Connectors



Brief Introduction

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

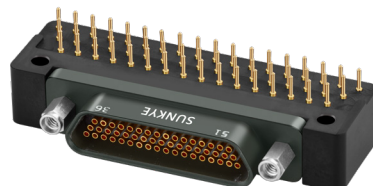
Specifications

Environment Temperature:	-55°C ~+125°C
Vibration:	10Hz~2000Hz, 196m/s ²
Random Vibration:	Power spectrum density 0.4G ² /Hz, root square value of total acceleration of 23.1G
Shock:	735m/s ² 11ms
Rated Current:	3A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥5000MΩ
Dielectric Strength:	800V
Durability:	500 times

Product Stereogram



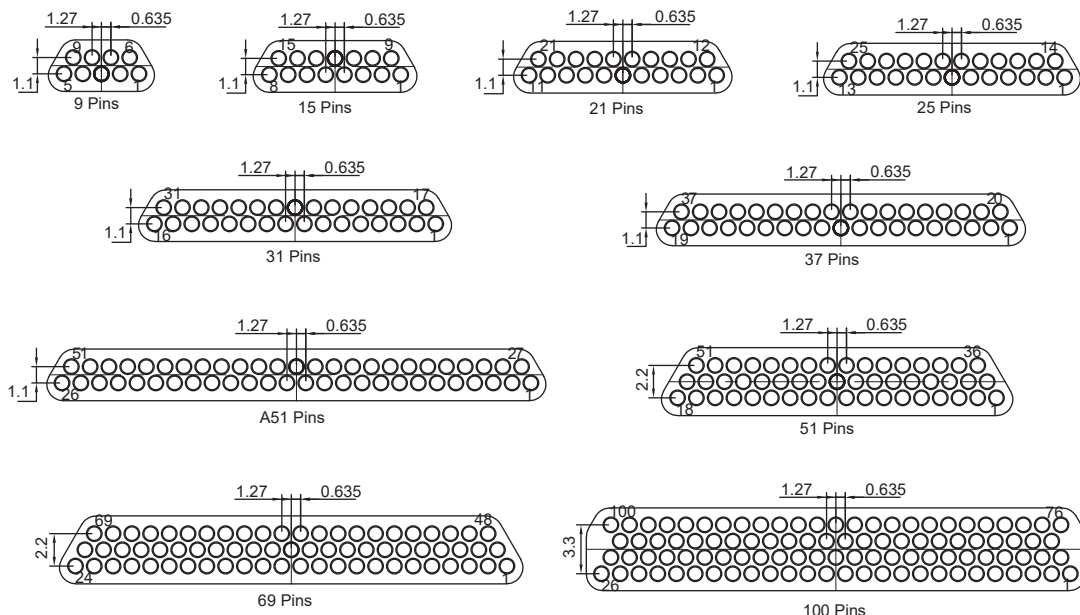
FA Style



FB Style



Contact Arrangements



Mating Face of Male Connectors

How To Order

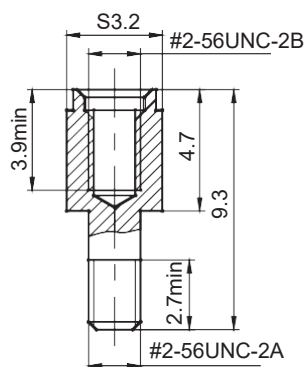
Sample Part Number	R04A	-31	PI	FB	3	N02	G
Series:							
R04A—Micro-D Connectors for MIL-DTL-83513							
Contact Number:							
9, 15, 21, 25, 31, 37, 51, 100pins							
Contact Type:							
PI—Pin in Plug RH—Socket in Receptacle							
Termination Type:							
FA—FA Style and The PCB Layout is 2.54*2.54mm							
FB—FB Style and The PCB Layout is 2.54*2.54mm							
Tail Length:							
1—2.77mm 2—3.56mm 3—4.37mm							
Locking Hardware:							
N02—Locking Hardware Type (See page 3) No Code—No Locking Hardware							
Shell Material and Finish :							
G—Aluminum Shell, Cadmium Plating No Code—Aluminum Shell, Nickel Plating							
U—Aluminum Shell, Gold Plating							



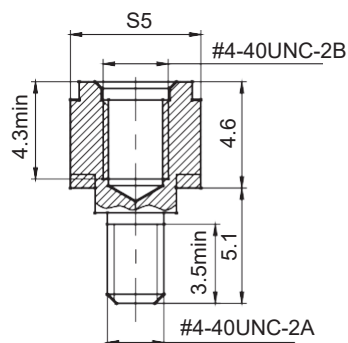
Locking Hardware

Code	Feature	Panel Thickness	Stereogram	Outline Dimensions
N02	Hex Head	/		Please See Below
N08	Hex Head Rear Panel Mounting Only	1.5 ⁰ _{-0.10} mm		

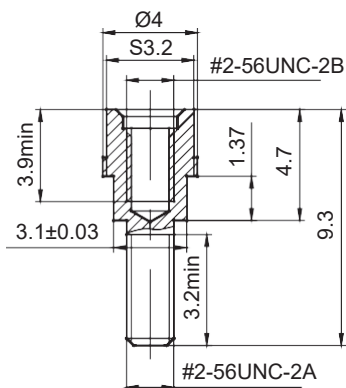
Outline Dimensions



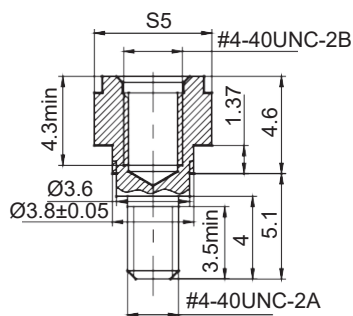
N02 for 9~69pins



N02 for 100pins



N08 for 9~69pins



N08 for 100pins

Tail Lengths

Tail Code	Tail Length	Recommend The Thickness Of PCB
1	2.77	1.2~2.2
2	3.56	2.0~3.0
3	4.37	2.8~3.8

Remark: All dimensions are in mm.

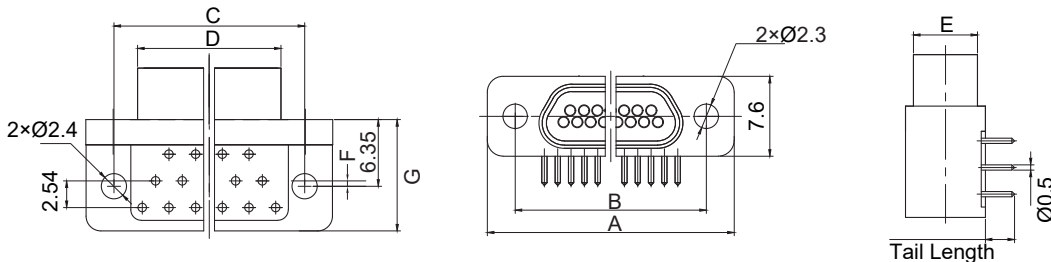


R04A Series Right Angle To PCB Connectors-FA Style

Product Stereogram



Outline Dimensions



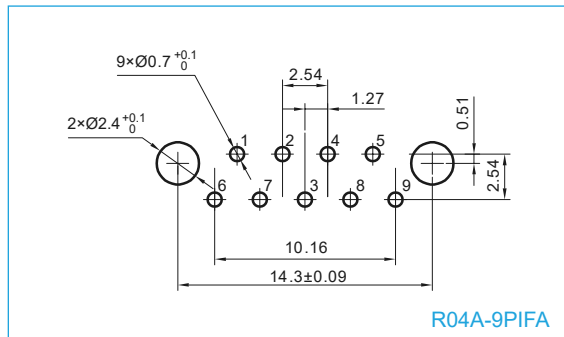
Part Number	A ±0.10	B ±0.10	C ±0.10	D ±0.10		E ±0.10		F ±0.10		G ±0.10	
				PI	RH	PI	RH	PI	RH	PI	RH
R04A-9PI/RHFA	19.6	14.3	14.3	8.4	10.16	4.7	6.1	0.51	0.51	10.7	10.7
R04A-15PI/RHFA	23.5	18.2	18.2	12.3	14	4.7	6.1	3.05	3.05	10.7	10.7
R04A-21PI/RHFA	27.3	22	22	16.1	17.8	4.7	6.1	3.05	3.05	10.7	10.7
R04A-25PI/RHFA	29.8	24.5	24.5	18.6	20.3	4.7	6.1	3.05	3.05	10.7	10.7
R04A-31PI/RHFA	33.6	28.3	28.3	22.4	24.12	4.7	6.1	3.05	3.05	13.1	13.1
R04A-37PI/RHFA	37.4	32.1	32	26.3	27.9	4.7	6.1	3.05	3.05	13.1	13.1
R04A-51PI/RHFA	36.45	30.86	30.86	25.02	26.67	5.79	7.52	3.81	3.81	16.76	16.76

Remark: All dimensions are in mm.

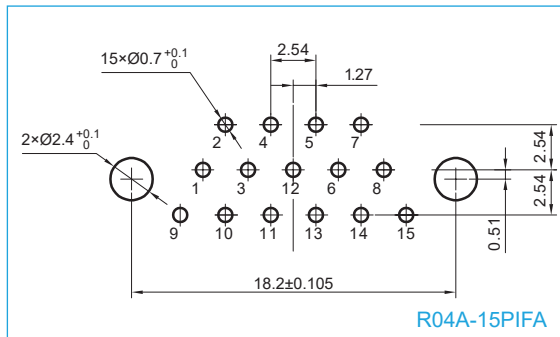


R04A Series Right Angle to PCB Connectors FA Style-PCB Layout

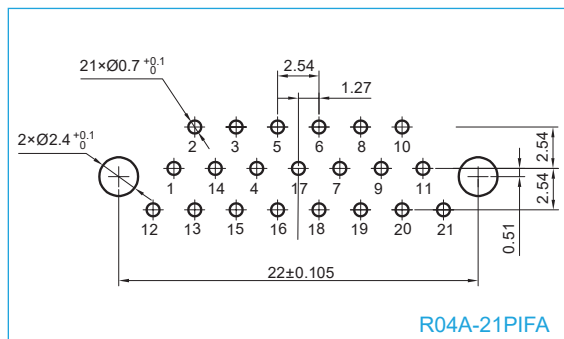
■ Plug Connectors



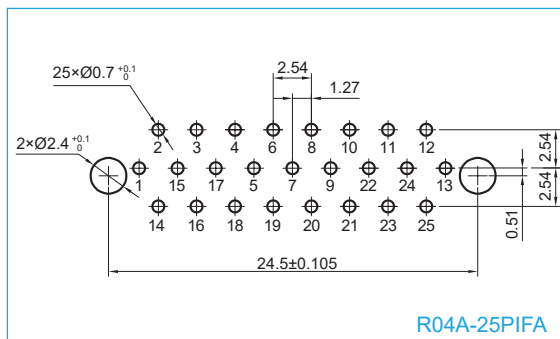
R04A-9PIFA



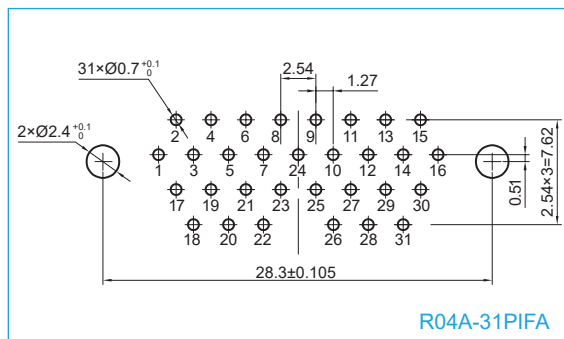
R04A-15PIFA



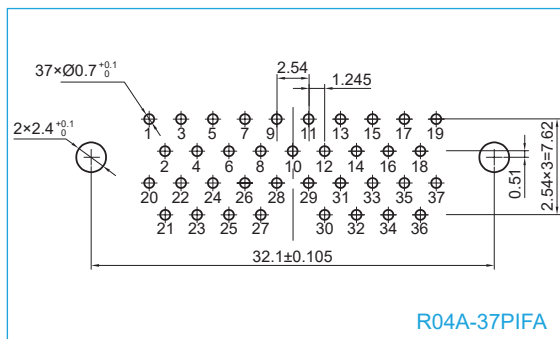
R04A-21PIFA



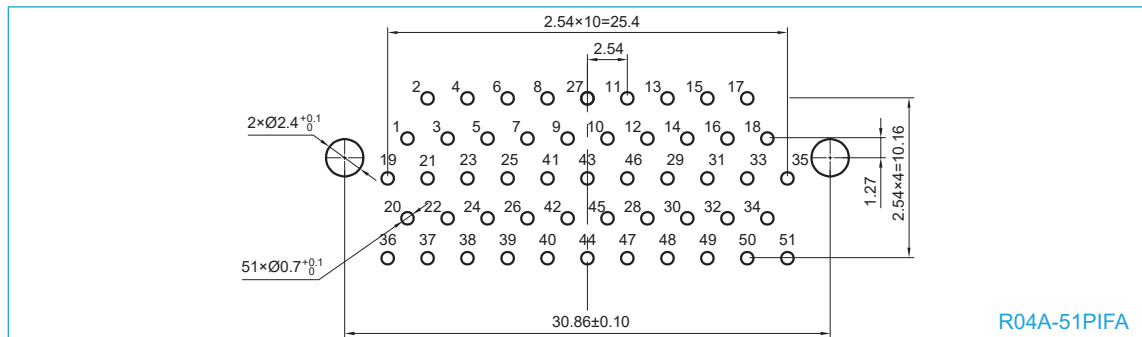
R04A-25PIFA



R04A-31PIFA



R04A-37PIFA



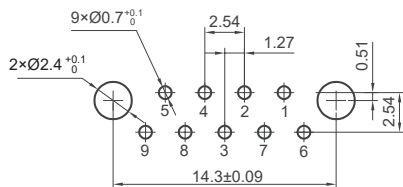
R04A-51PIFA

Remark: 1. All dimensions are in mm.
2. View top side from PCB board.

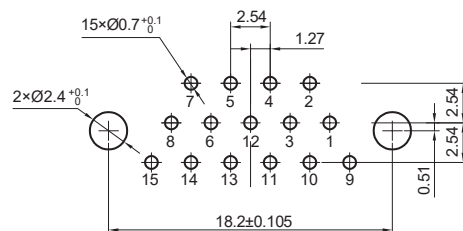


R04A Series Right Angle to PCB Connectors FA Style-PCB Layout

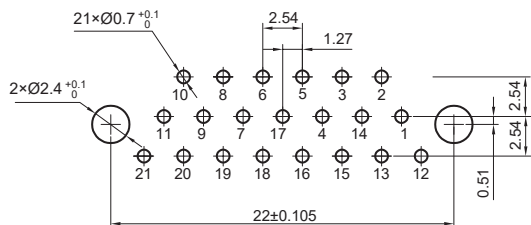
Receptacle Connectors



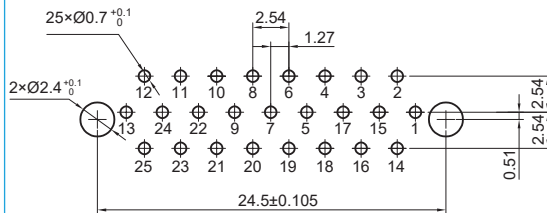
R04A-9RHFA



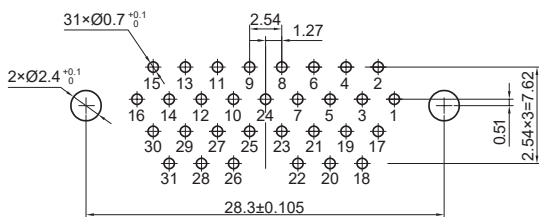
R04A-15RHFA



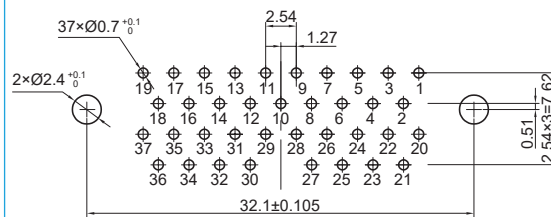
R04A-21RHFA



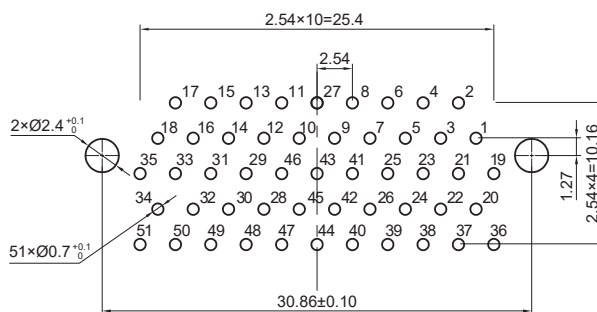
R04A-25RHFA



R04A-31RHFA



R04A-37RHFA



R04A-51RHFA

Remark: 1. All dimensions are in mm.

2. View top side from PCB board.

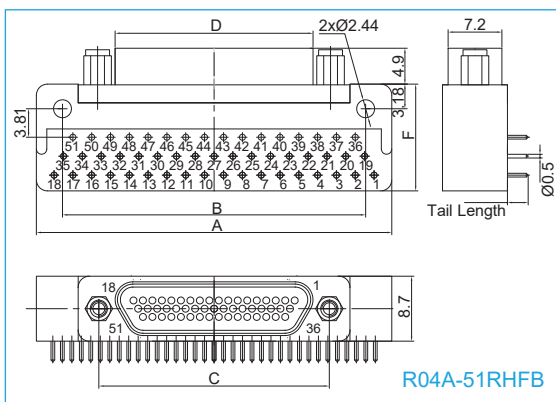
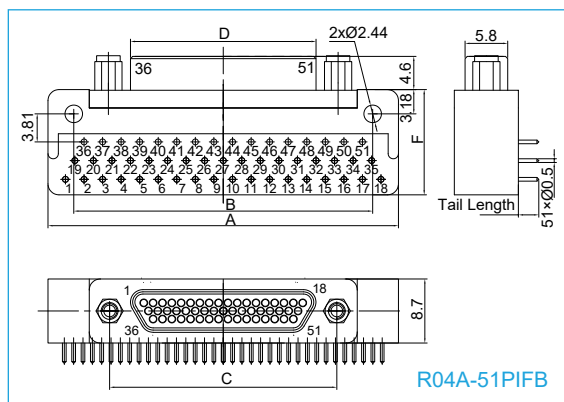
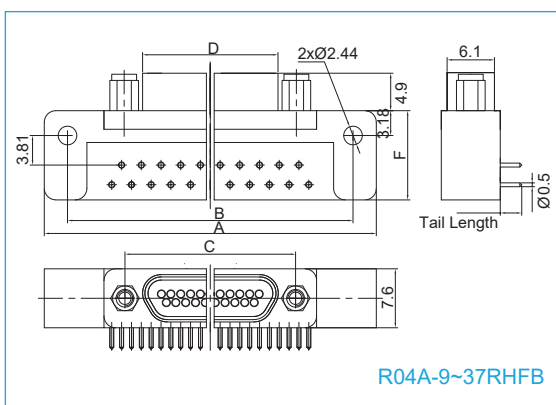
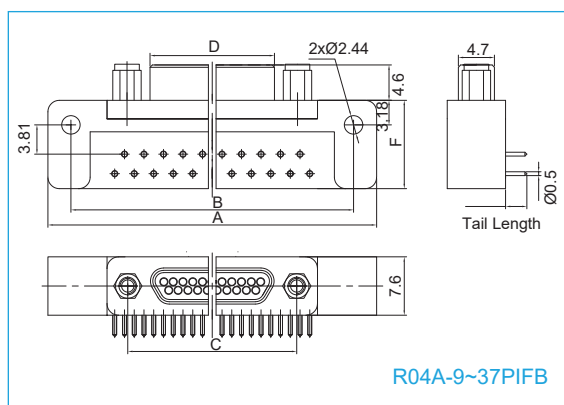


R04A Series Right Angle To PCB Connectors-FB Style

Product Stereogram



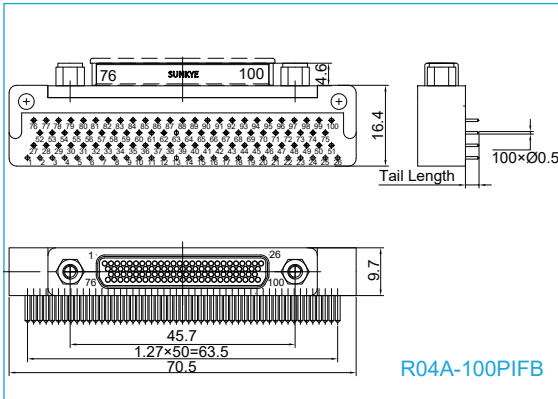
Outline Dimensions



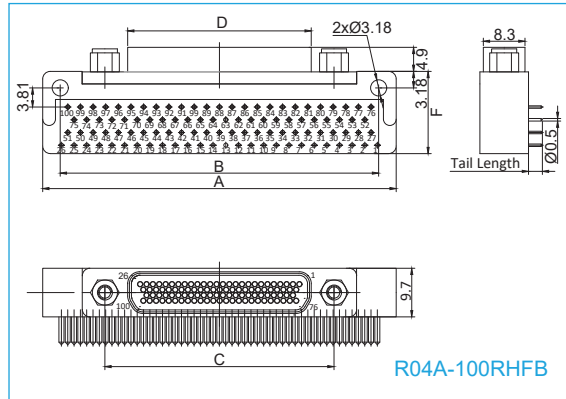
Remark: All dimensions are in mm.



Outline Dimensions



R04A-100PIFB



R04A-100RHFB

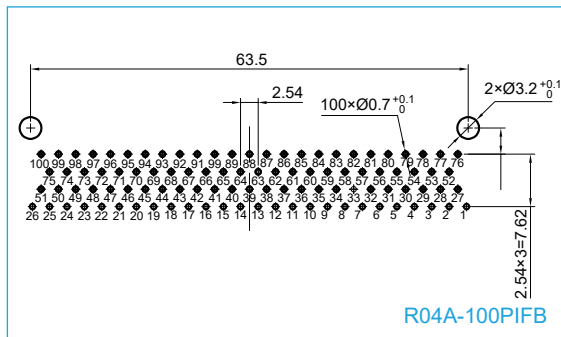
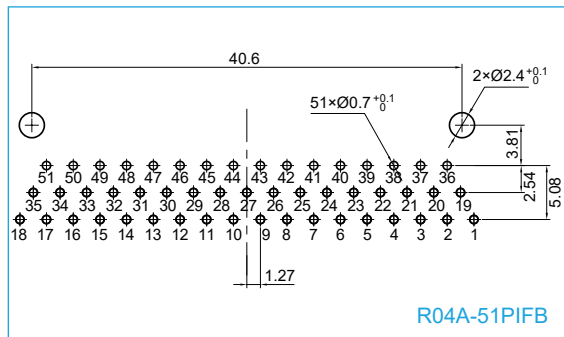
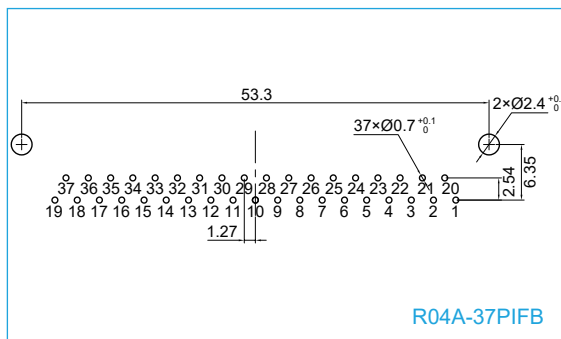
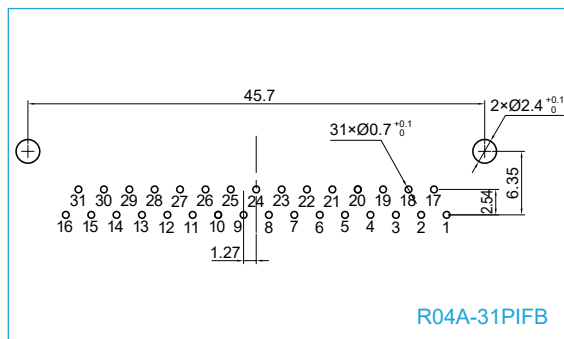
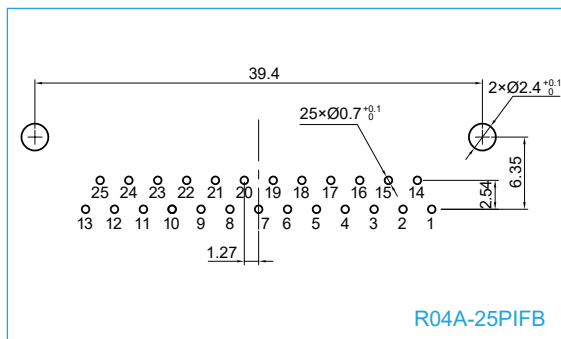
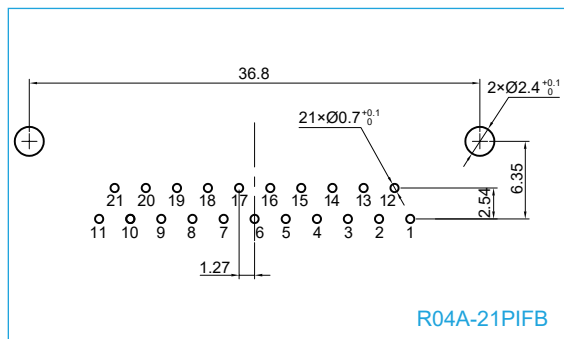
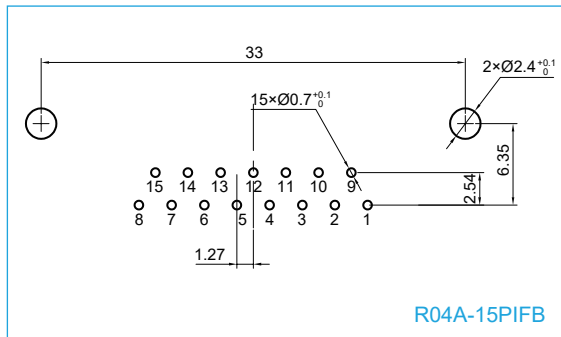
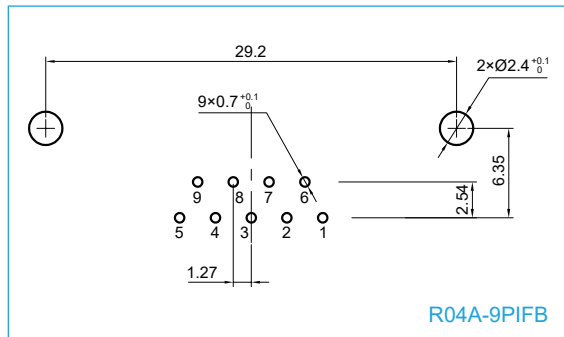
Part Number	Outline Dimensions				
	A ±0.10	B ±0.10	C ±0.10	D ±0.10	F ±0.10
R04A-9PIFB	35.2	29.2	14.3	8.4	11.5
R04A-15PIFB	39	33	18.2	12.3	11.5
R04A-21PIFB	42.8	36.8	22	16.1	11.5
R04A-25PIFB	45.4	39.4	24.5	18.6	11.5
R04A-31PIFB	51.7	45.7	28.3	22.4	11.5
R04A-37PIFB	59.3	53.3	32.1	26.2	11.5
R04A-51PIFB	47.6	40.6	30.9	25	14.3
R04A-100PIFB	70.5	63.5	45.7	35.1	16.8
R04A-9RHFB	35.2	29.2	14.3	8.4	11.5
R04A-15RHFB	39	33	18.2	12.3	11.5
R04A-21RHFB	42.8	36.8	22	16.1	11.5
R04A-25RHFB	45.4	39.4	24.5	18.6	11.5
R04A-31RHFB	51.7	45.7	28.3	22.4	11.5
R04A-37RHFB	59.3	53.3	32.1	26.2	11.5
R04A-51RHFB	47.6	40.6	30.9	25	14.3
R04A-100RHFB	70.5	63.5	45.7	35.1	16.8

Remark: All dimensions are in mm.



R04A Series Right Angle to PCB Connectors FB Style-PCB Layout

■ Plug Connectors

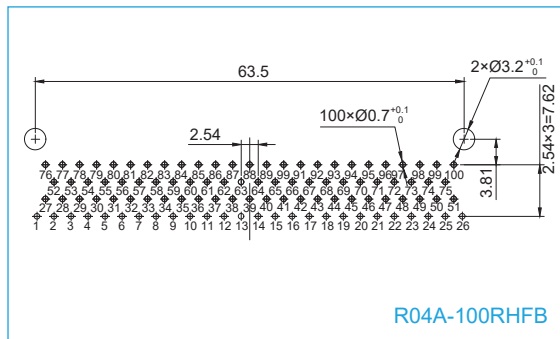
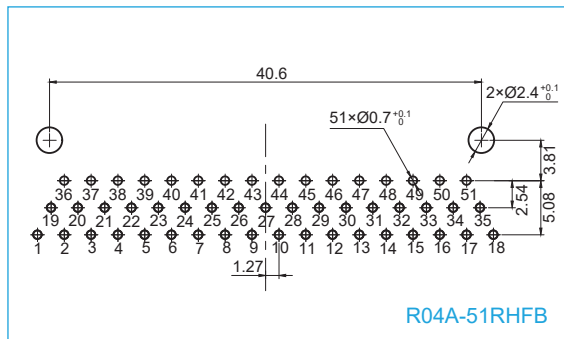
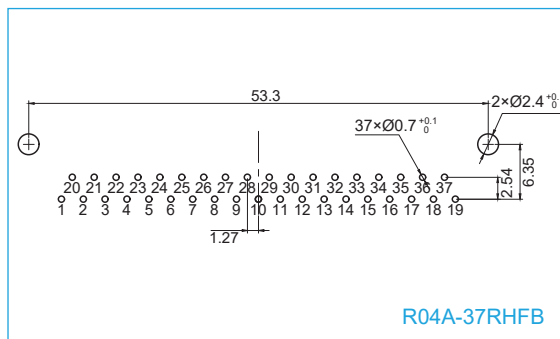
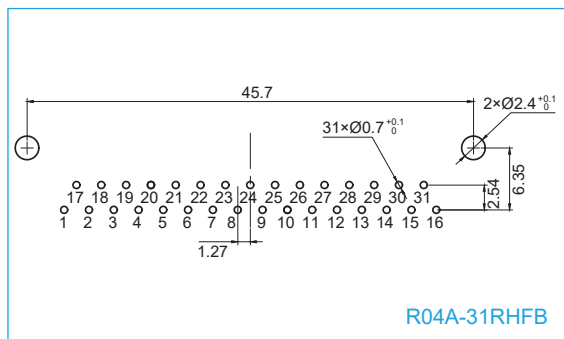
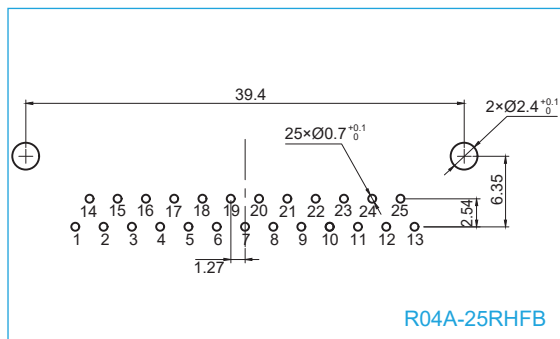
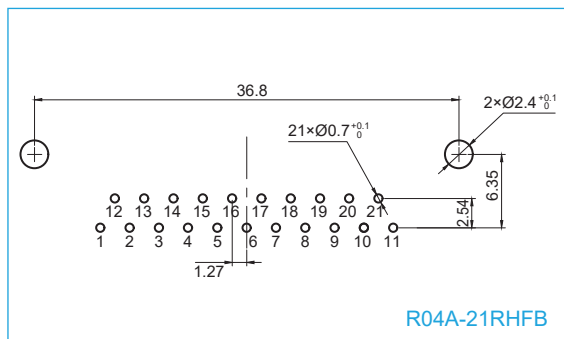
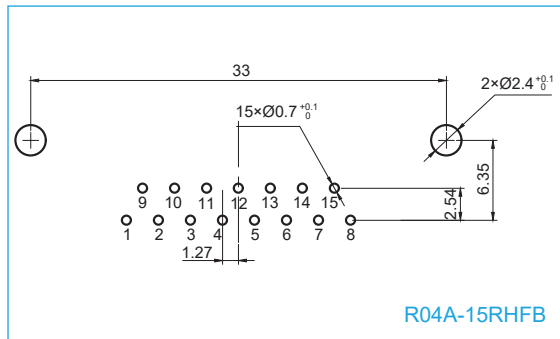
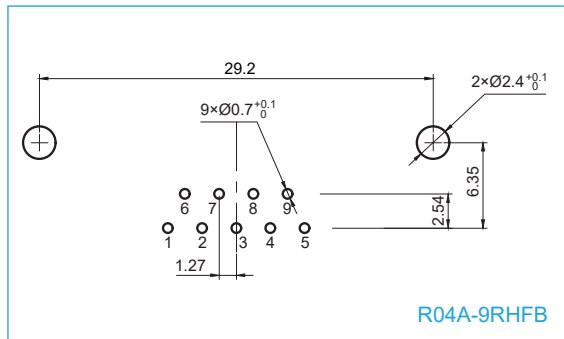


Remark: 1. All dimensions are in mm.
2. View top side from PCB board.



R04A Series Right Angle to PCB Connectors FB Style-PCB Layout

■ Receptacle Connectors



Remark: 1. All dimensions are in mm.
2. View top side from PCB board.