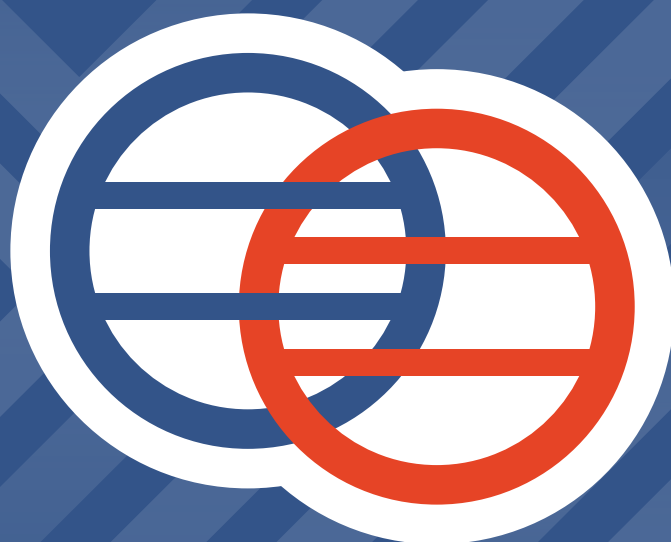




MATENG

YW SERIES

CATALOG

YW SERIES CIRCULAR CONNECTOR

This family of connector are integrated on RJ45, USB, Mini USB and 1394 in the standard circular connector. Their size and performance conform to MIL-C-26482, MIL-DTL-38999.



ELECTRICAL PERFORMANCE

- Operating voltage:
 - 150 V (RJ45)
 - 30 V (USB, Mini USB)
 - 40 V (1394)
- Operating current:
 - 1.5 A (RJ45)
 - 1 A (USB, Mini USB)
 - 1.5 A (1394)
- Contact resistance:
 - $\leq 20 \text{ M}\Omega$ (RJ45)
 - $\leq 30 \text{ M}\Omega$ (USB)
 - $\leq 50 \text{ M}\Omega$ (1394, Mini USB)
- Insulation resistance:
 - $\geq 5000 \text{ M}\Omega$
- Withstanding voltage:
 - 1000v (RJ45)
 - 500v (USB, Mini USB, 1394)
- Data transferring:
 - RJ45:
 - Loss: 0.3dB (100MHz)
 - Crosstalk: 40dB (100MHz)
 - Impedance: 100 Ω
 - Transferring speed: 1000Mbps
 - USB and 1394:
 - Conform to USB2.0 and IEEE1394

PERFORMANCE SPECIFICATION

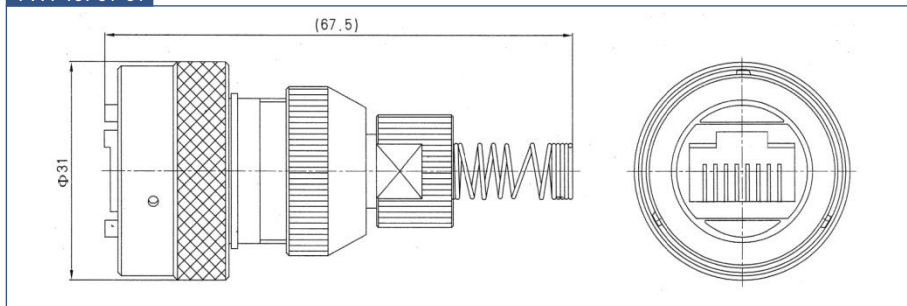
- Temperature Rating: -55 oC ~ +125 oC
- Relative humidity: at 40 oC, 90% ~ 95%
- Vibration: 10 HZ ~ 2000 Hz, acceleration 147 m/s²
- Shock: 490 m/s²
- Endurance: ≥ 500 cycles



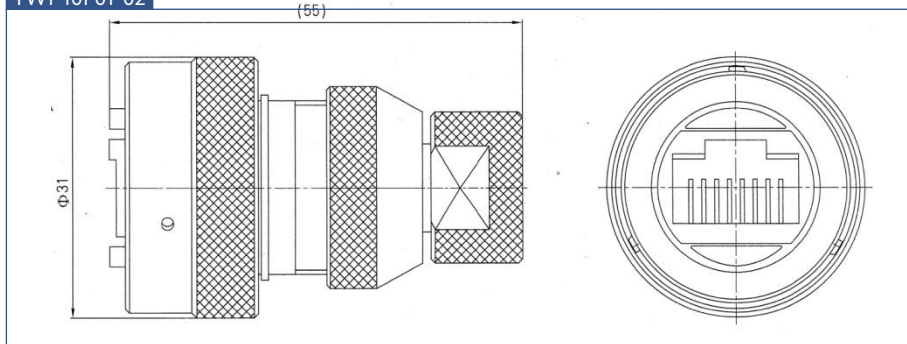
Basic series	YW	1	-10	F	01	S	01
Style	1 = Bayonet coupling 3 = Triple start thread						
Type of plug and receptacle	10 = Straight plug 20 = Flange receptacle 22 = Double bayonet coupling, flange mounting with thru bulkhead receptacle 23 = Nut receptacle 24 = Single bayonet coupling,screw mounting receptacle						
Finish	F = Electroless nickel plating B = Cadmium plating E = Stainless steel passivated H = Black L = Olive green						
Type of Internal Interface	01 = RJ45 02 = USB 03 = 1394 04 = Mini USB						
Terminal of supporting the wire bundle	B = Straight solder W = 90o elbow solder S = Solder by cable Omit = Crimp						
Back shell	01 = Straight spring guard hermetic 02 = Straight heat shrinkable sleeve and hermetic						

SHELL SIZE (J45)

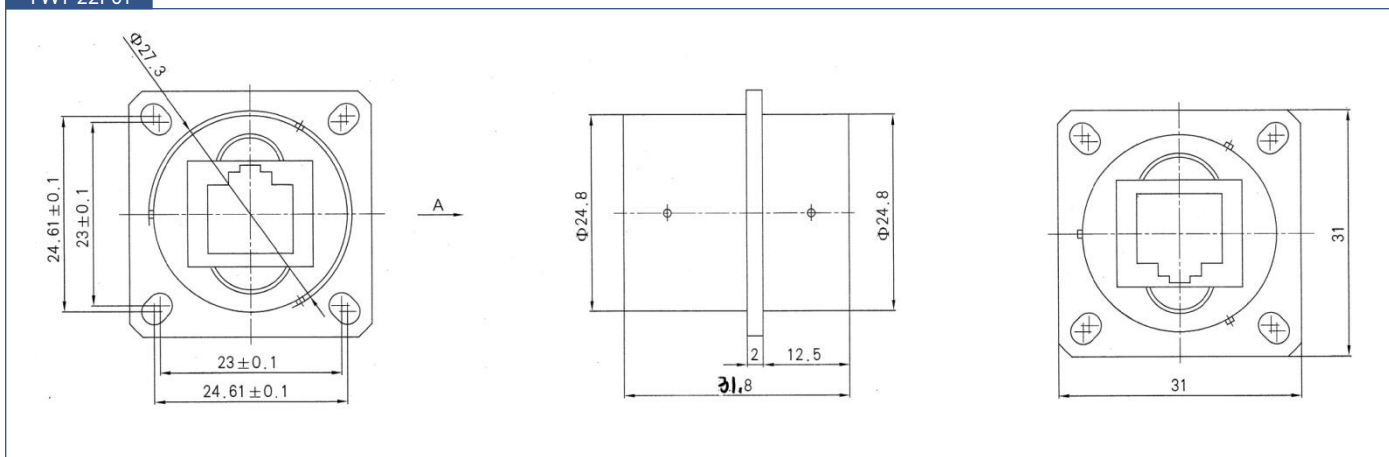
YW1-10F01-01

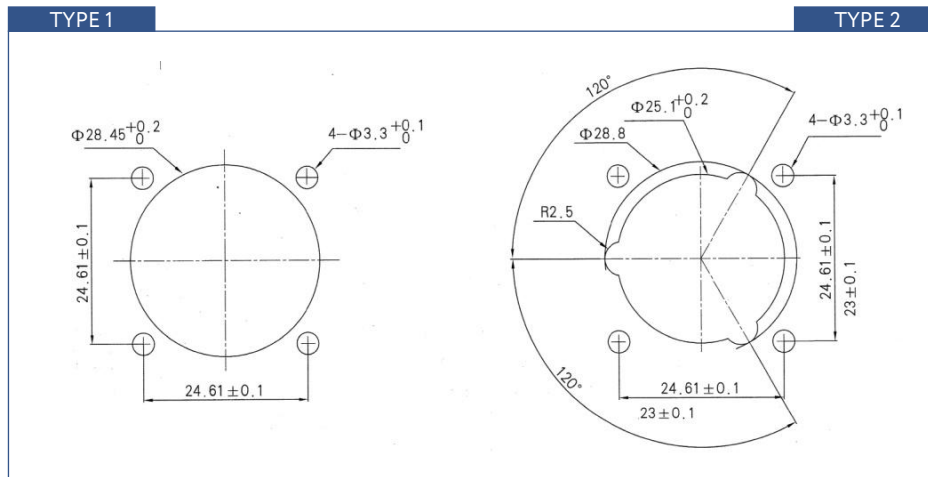


YW1-10F01-02

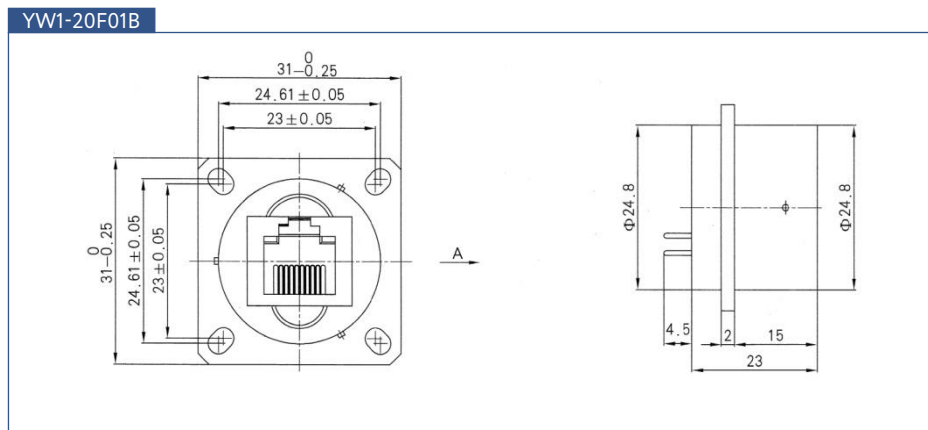


YW1-22F01

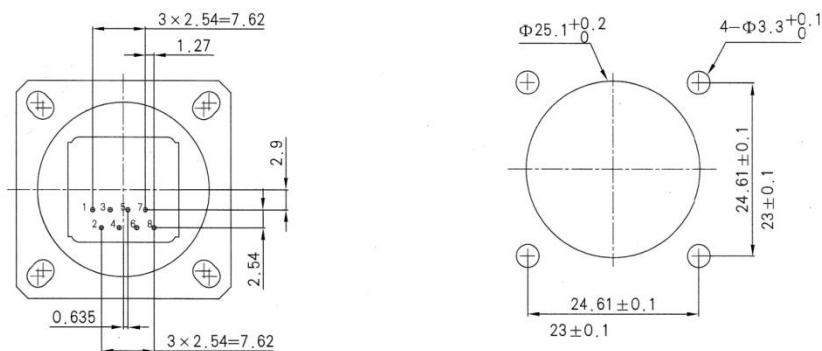




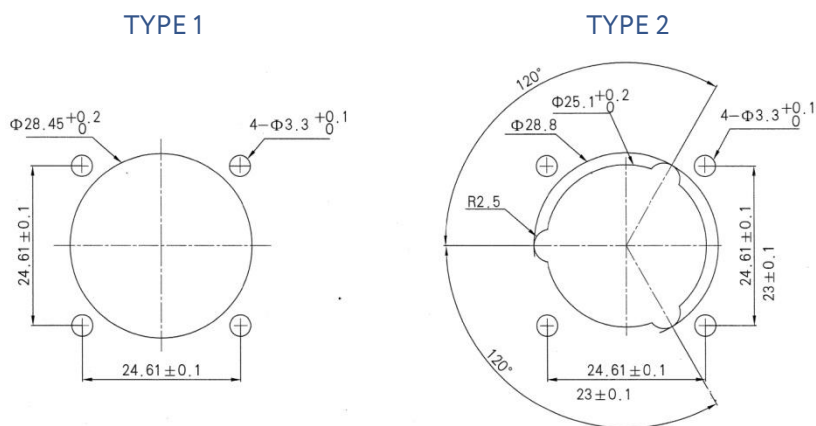
The dimension is same as #14, 16 of MIL-C-24682 I and #14, 15 of MIL-DTL-38999 III



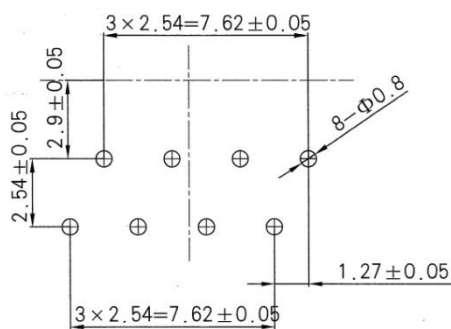
MOUNTING BEFORE BOARD



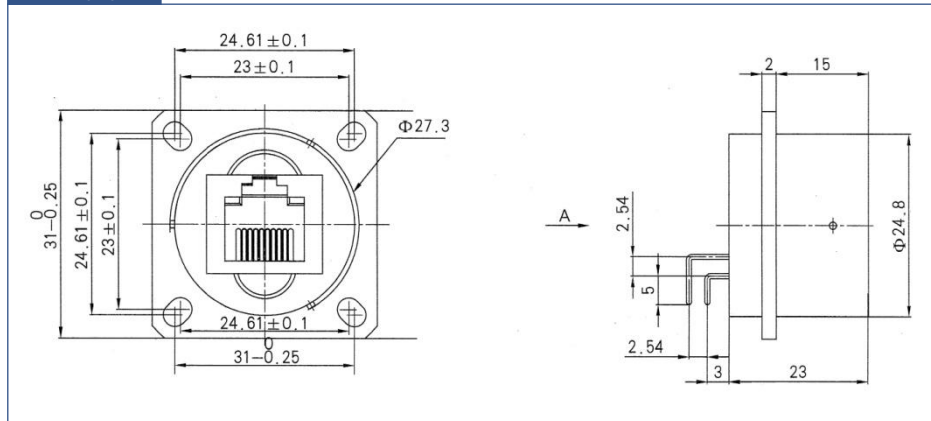
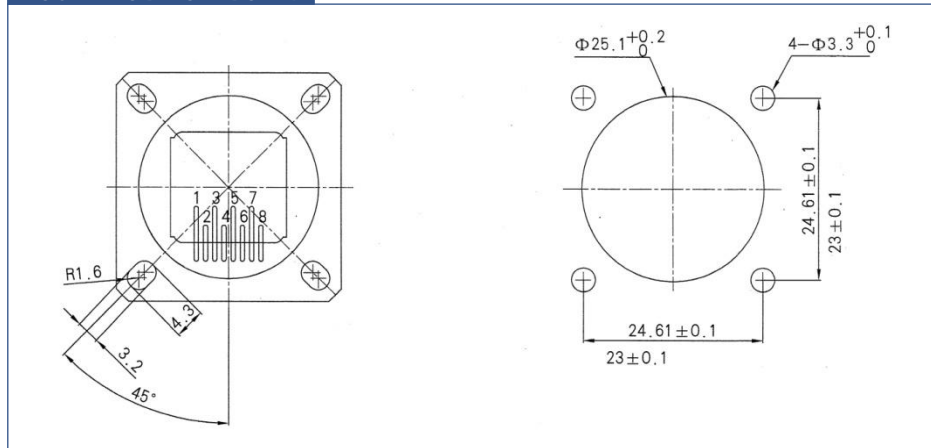
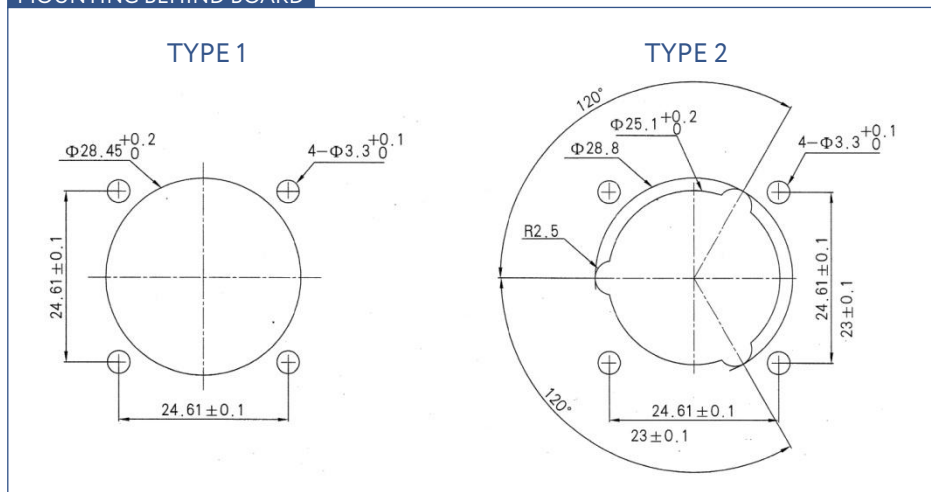
MOUNTING BEHIND BOARD



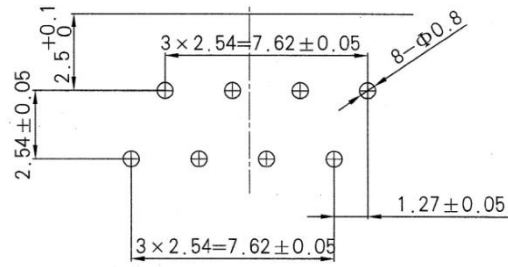
HOLE DIMENSION OF PCB



The dimension is same as #14, 16 of MIL-C-24682 I and #14, 15 of MIL-DTL-38999 III

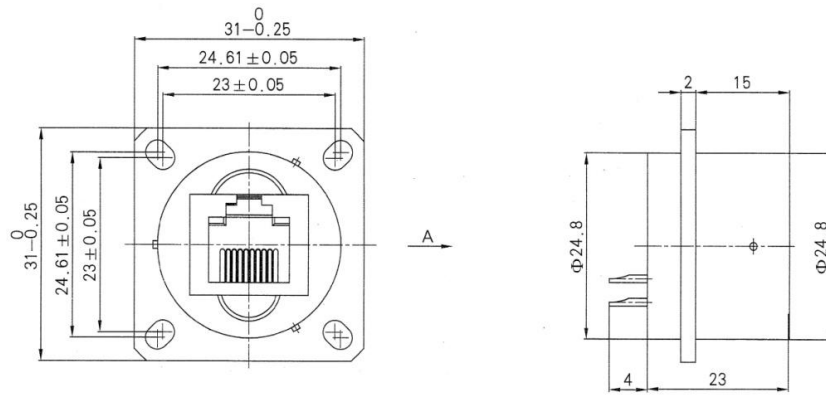
YW1-20F01W

MOUNTING BEFORE BOARD

MOUNTING BEHIND BOARD


HOLE DIMENSION OF PCB

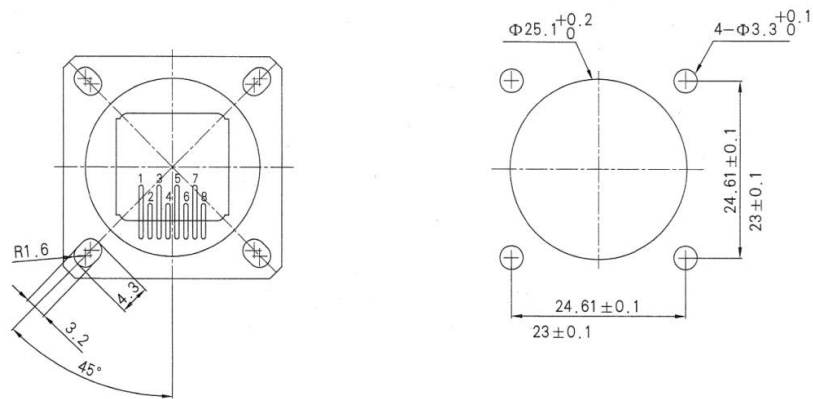


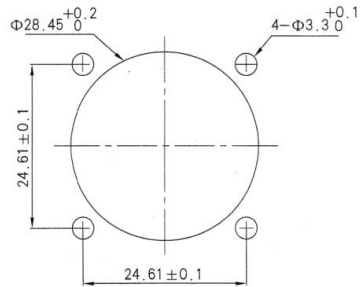
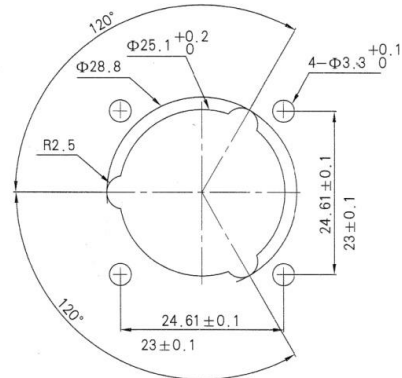
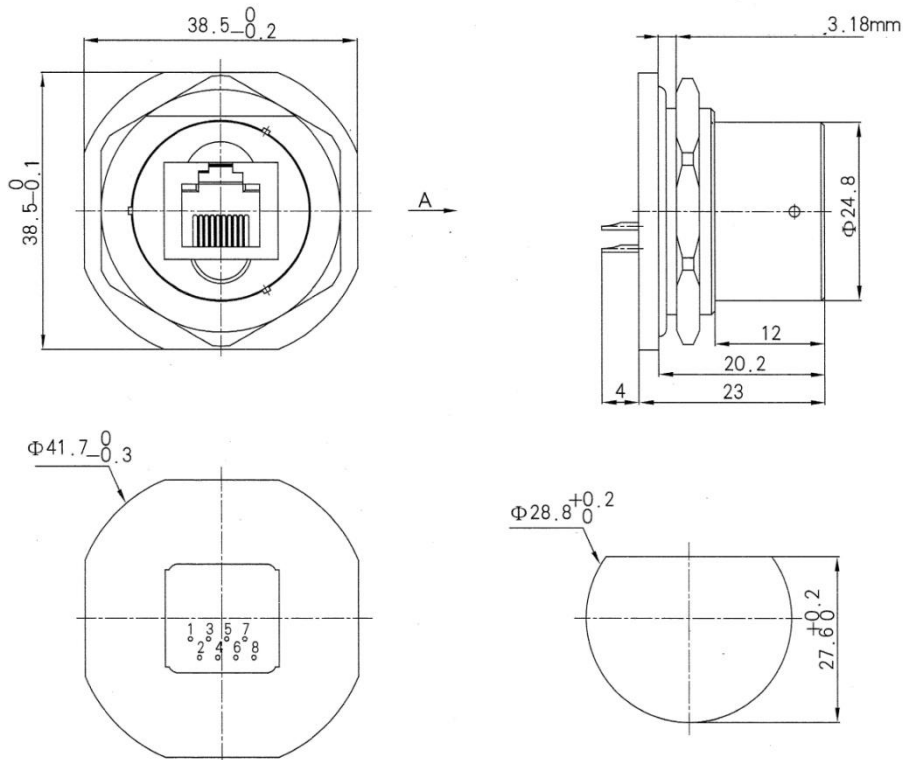
The dimension is same as #14, 16 of MIL-C-24682 I and #14, 15 of MIL-DTL-38999 III.

YW1-20F01W

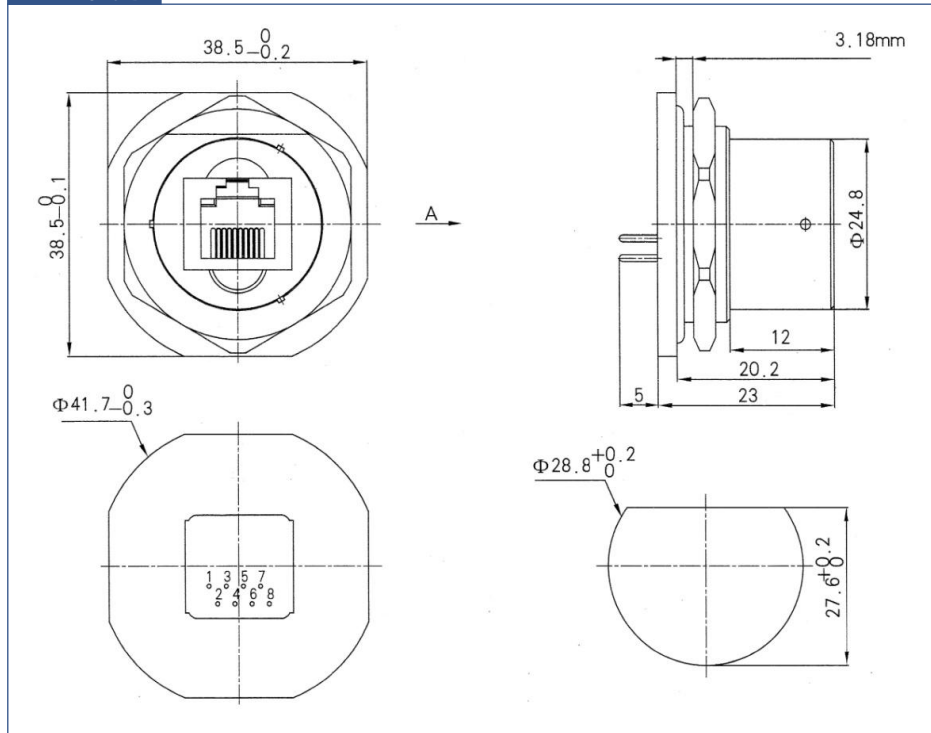


MOUNTING BEFORE BOARD

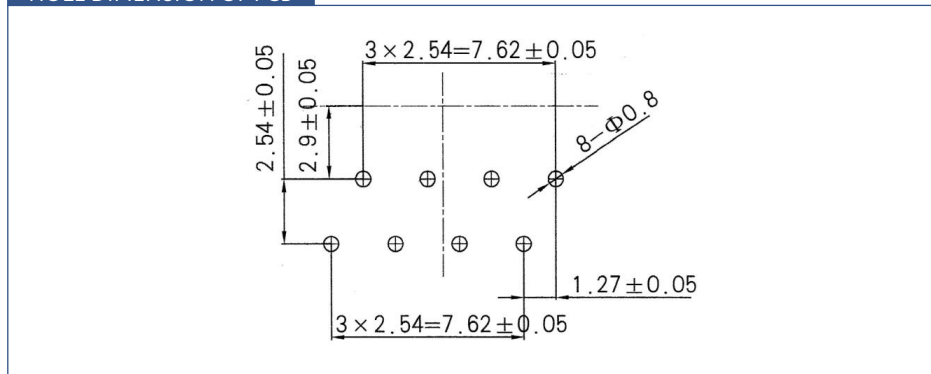


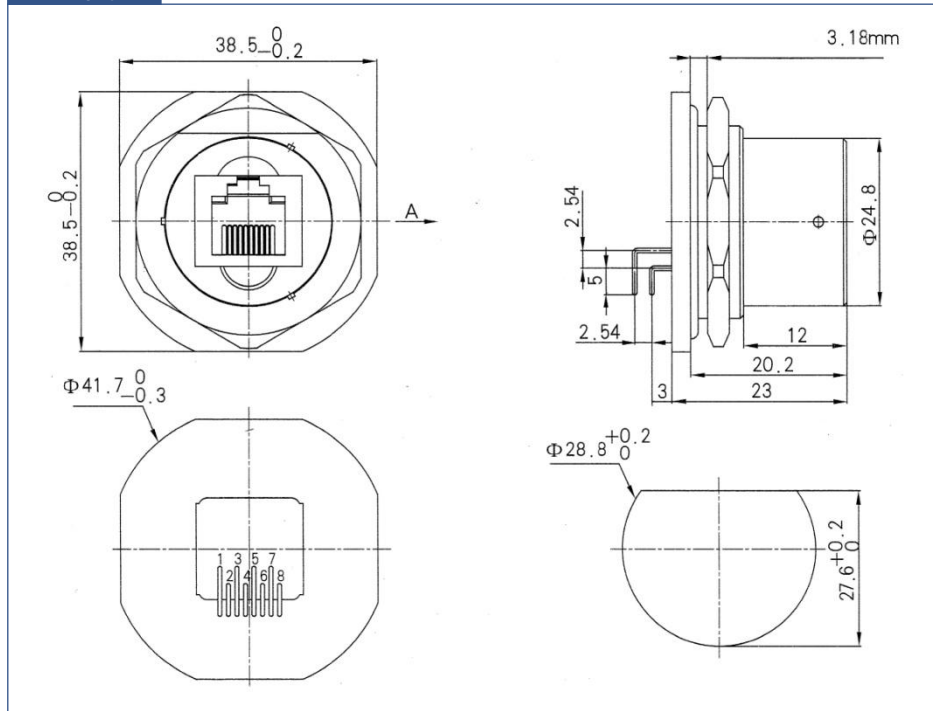
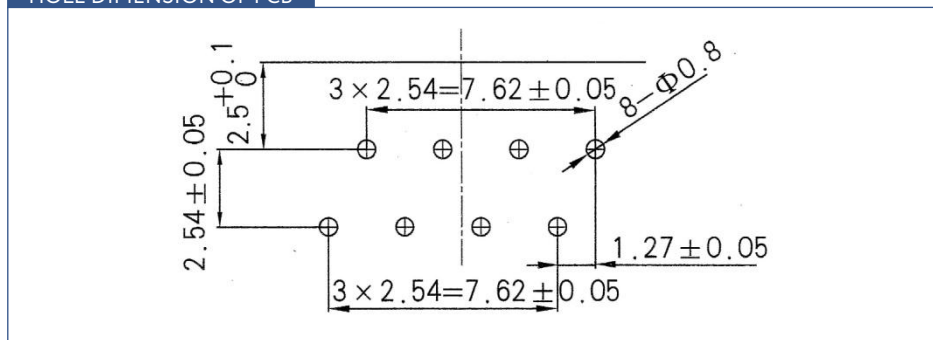
MOUNTING BEHIND BOARD
TYPE 1

TYPE 2

YW1-23F01S1


YW1-23F01B



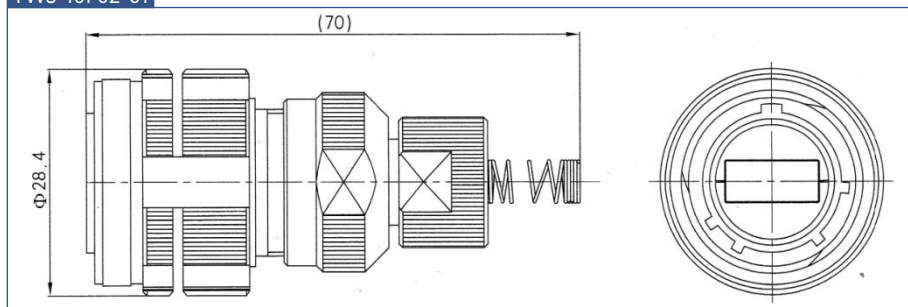
HOLE DIMENSION OF PCB



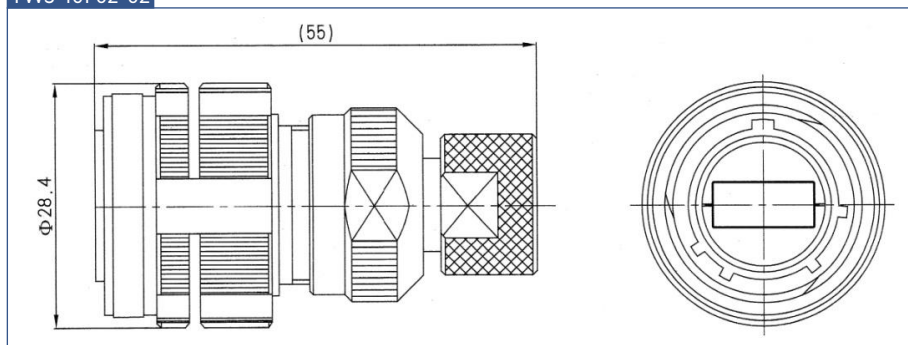
YW1-23F01W

HOLE DIMENSION OF PCB


USB

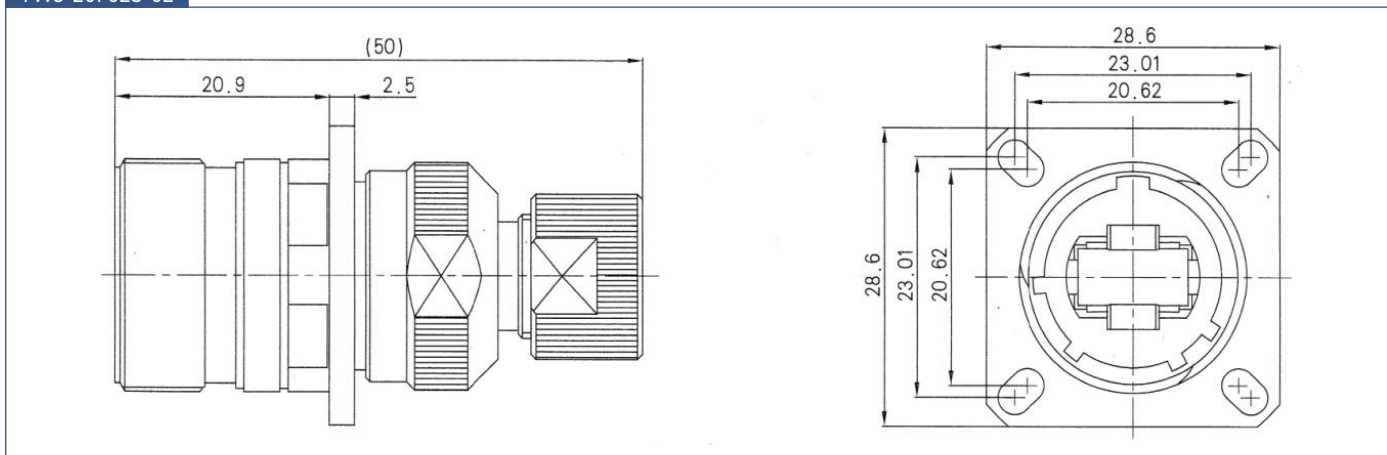
YW3-10F02-01



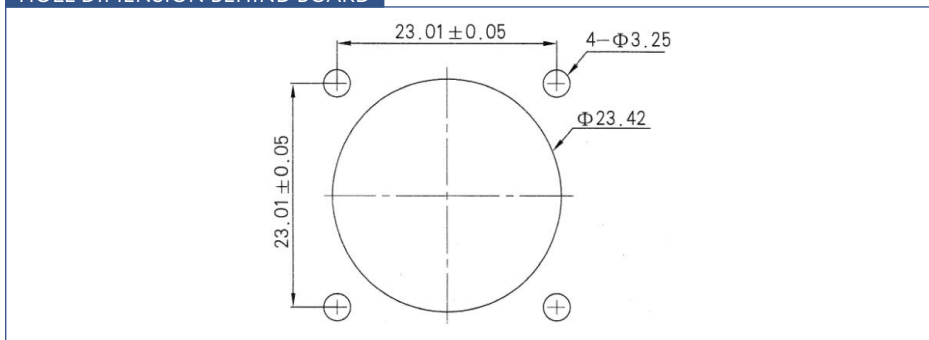
YW3-10F02-02



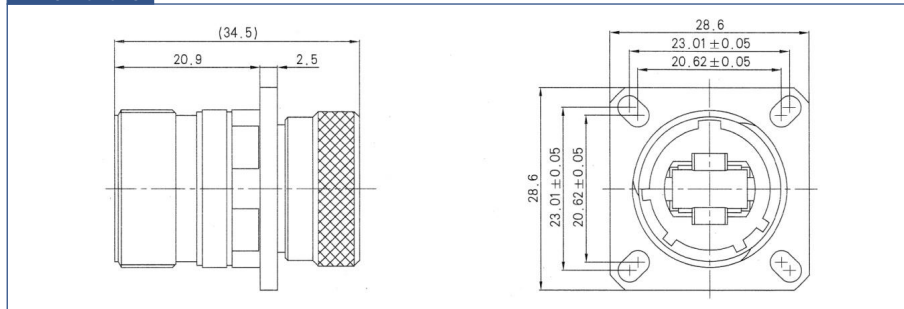
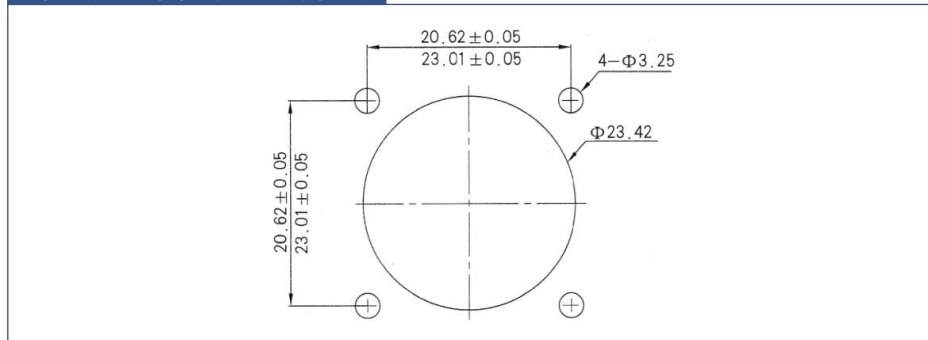
YW3-20F02S-02



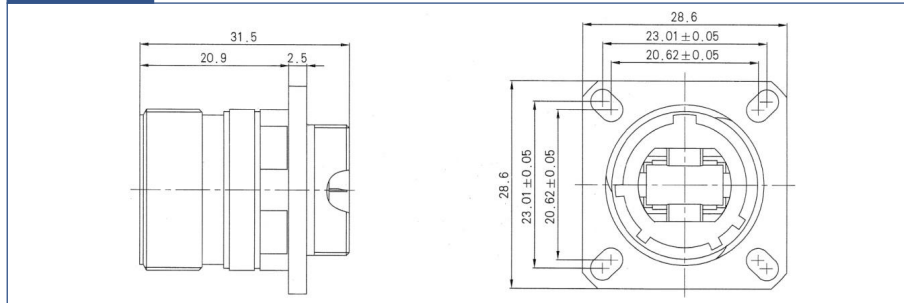
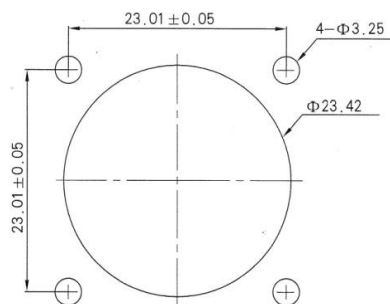
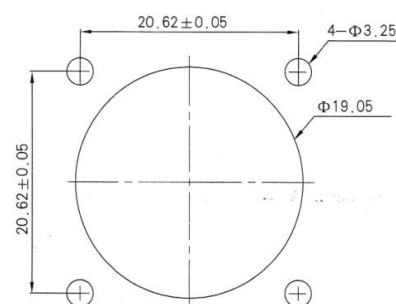
HOLE DIMENSION BEHIND BOARD



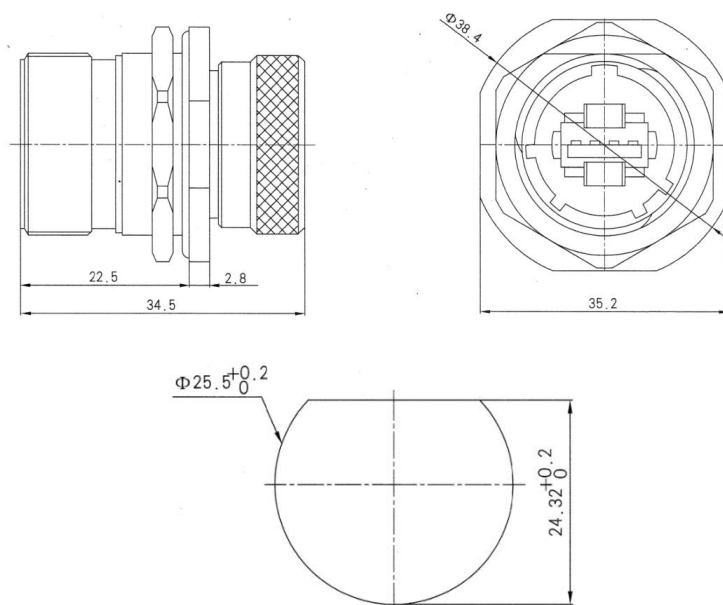
The dimension is same as #13 of MIL-DTL-38999 III

YW3-20F02S

HOLE DIMENSION BEHIND BOARD


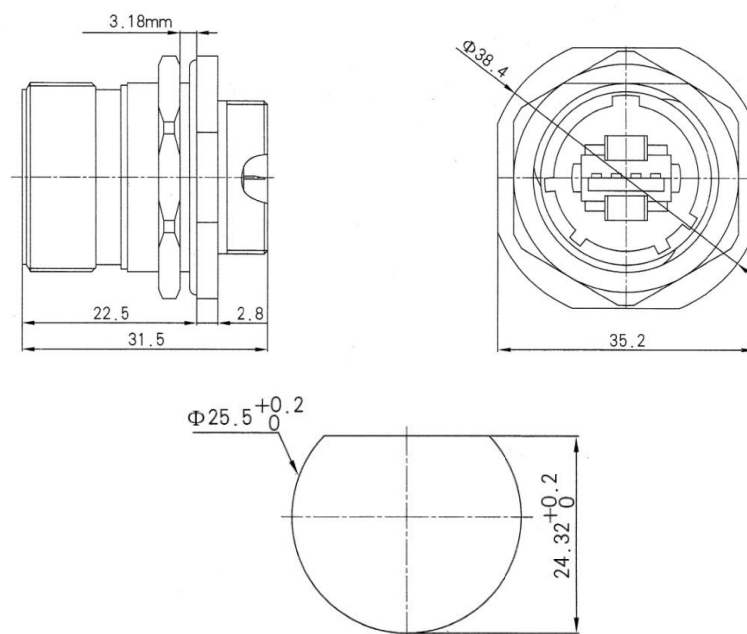
The dimension is same as #13 of MIL-DTL-38999 III

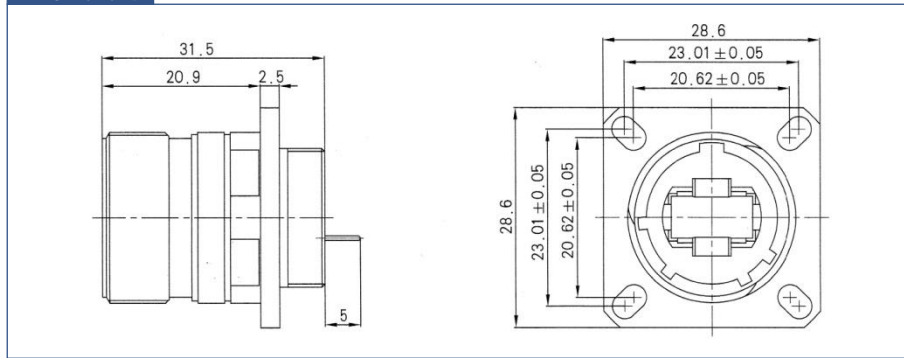
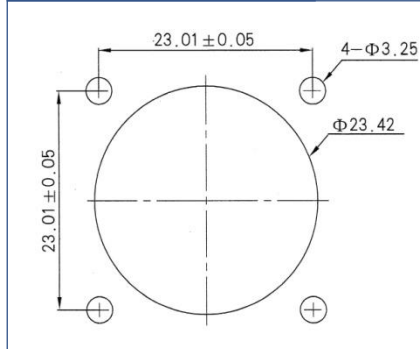
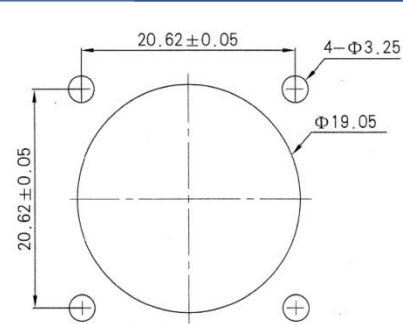
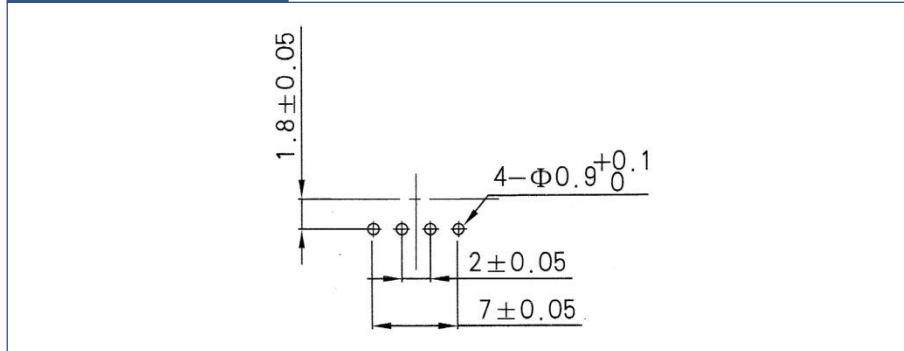
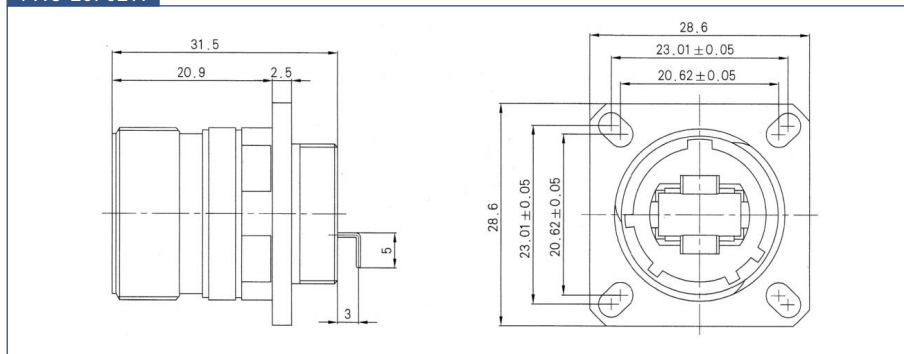
YW3-20F02S1

HOLE DIMENSION BEHIND BOARD

HOLE DIMENSION BEFORE BOARD


YW3-23F02S

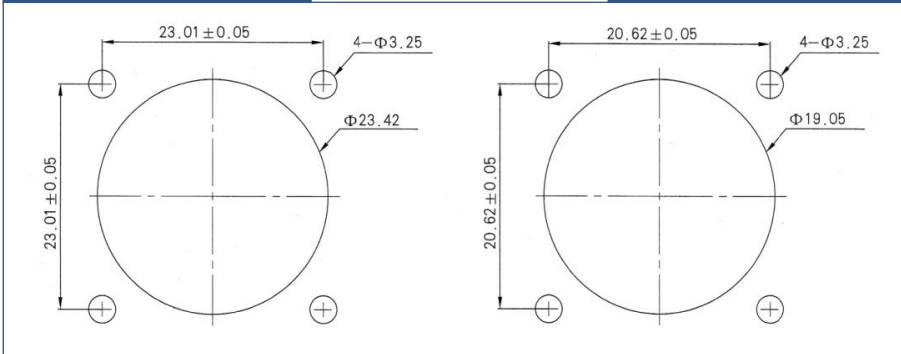


YW3-23F02S1

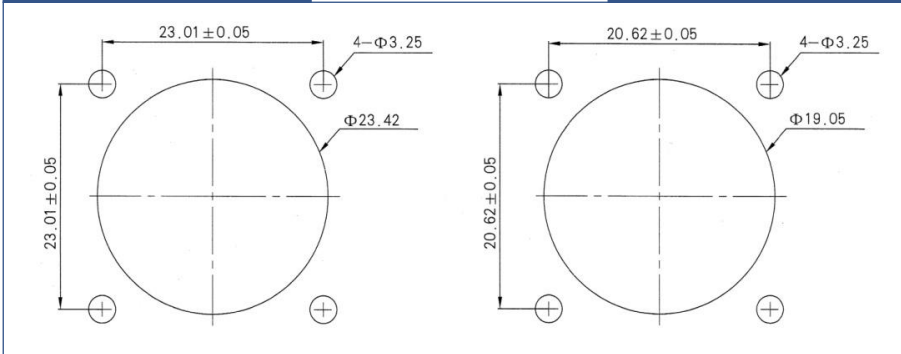


YW3-20F02B

DIMENSION BEHIND BOARD

DIMENSION BEFORE BOARD

HOLE DIMENSION OF PCB

YW3-20F02W


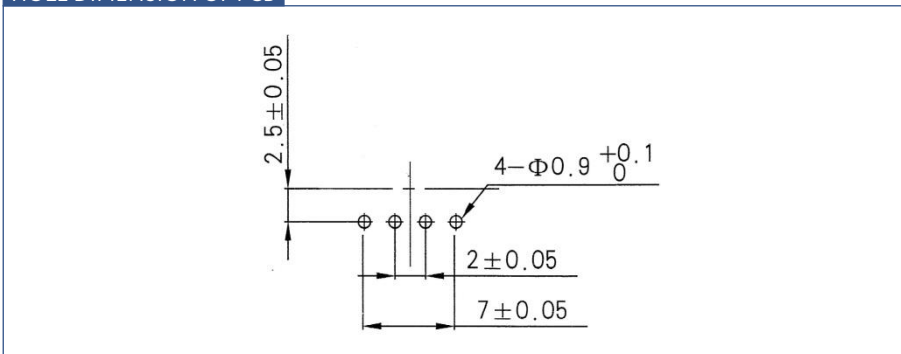
DIMENSION BEHIND BOARD



DIMENSION BEFORE BOARD



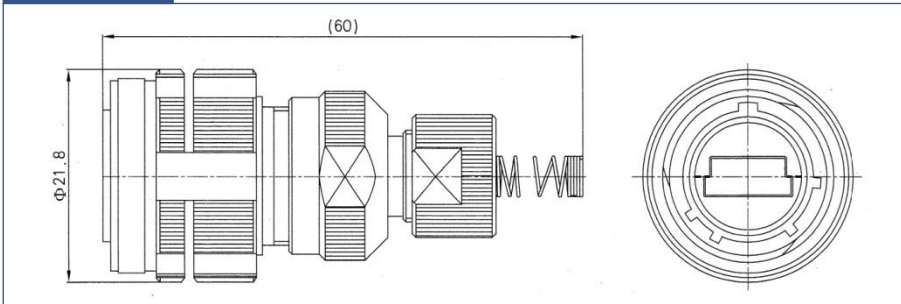
HOLE DIMENSION OF PCB



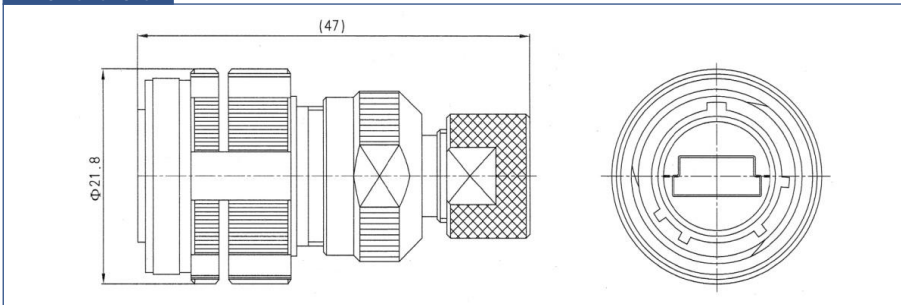
The dimension is same as #13 of MIL-DTL-38999 III

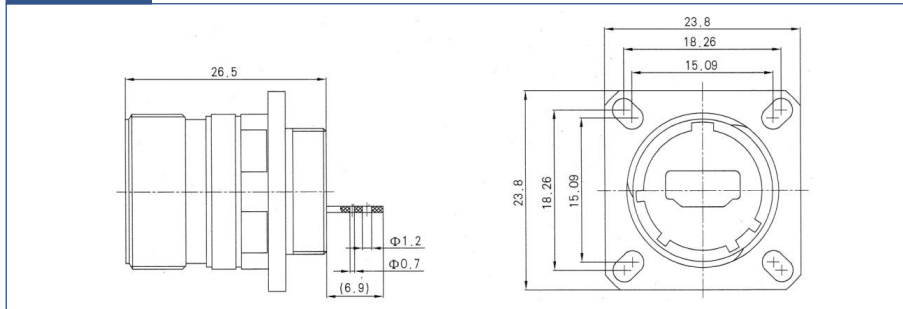
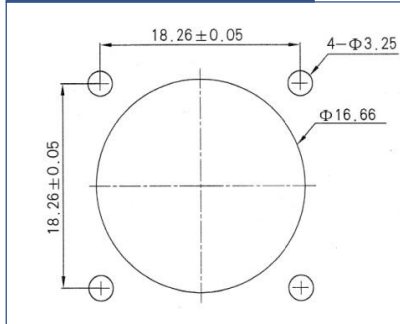
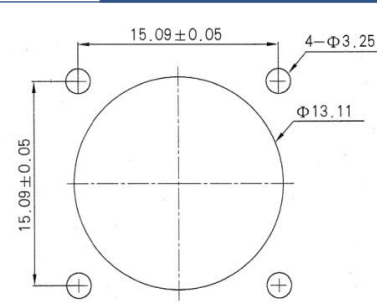
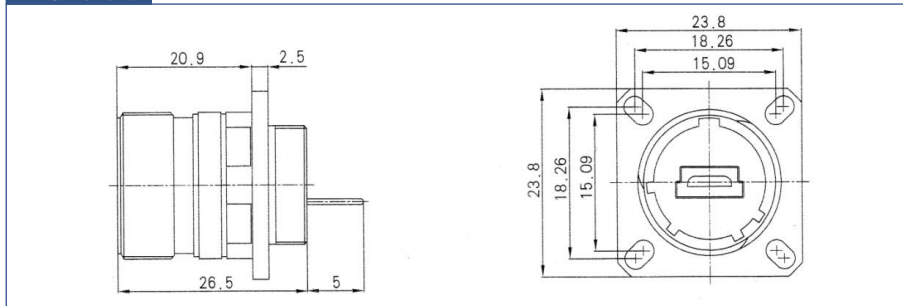
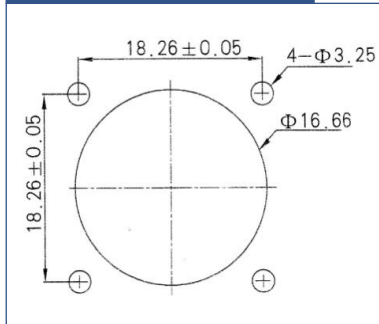
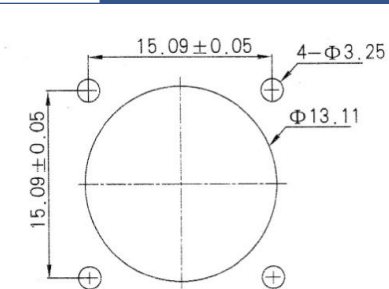
MINI USB

YW3-10F04S-01

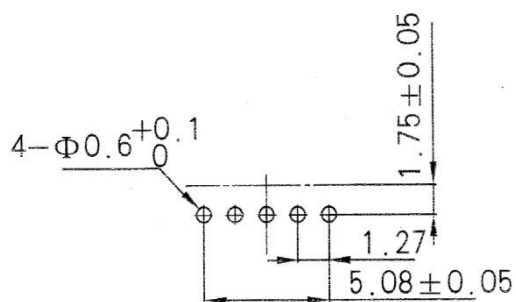


YW3-10F04S-02

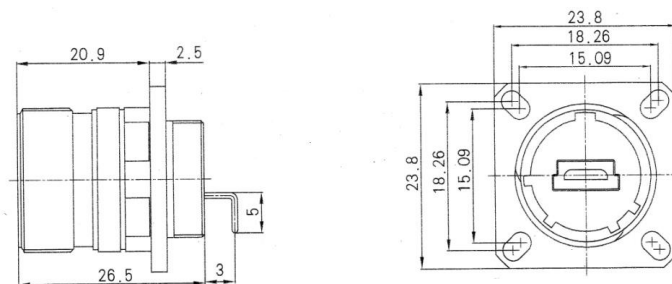


YW3-20F04S

DIMENSION BEHIND BOARD

DIMENSION BEFORE BOARD

YW3-20F04B

DIMENSION BEHIND BOARD

DIMENSION BEFORE BOARD


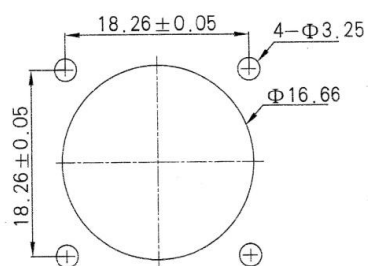
HOLE DIMENSION OF PCB



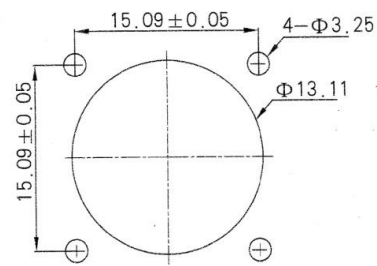
YW3-20F04W



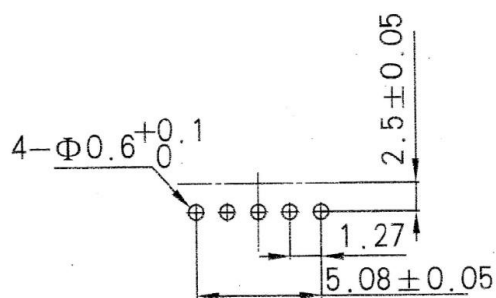
DIMENSION BEHIND BOARD



DIMENSION BEFORE BOARD



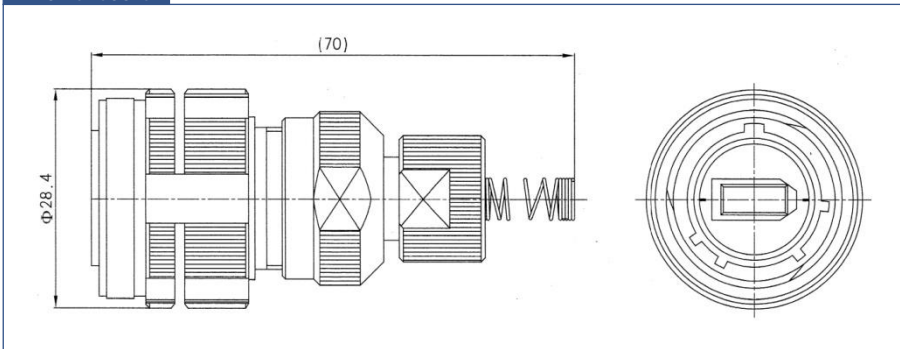
HOLE DIMENSION OF PCB



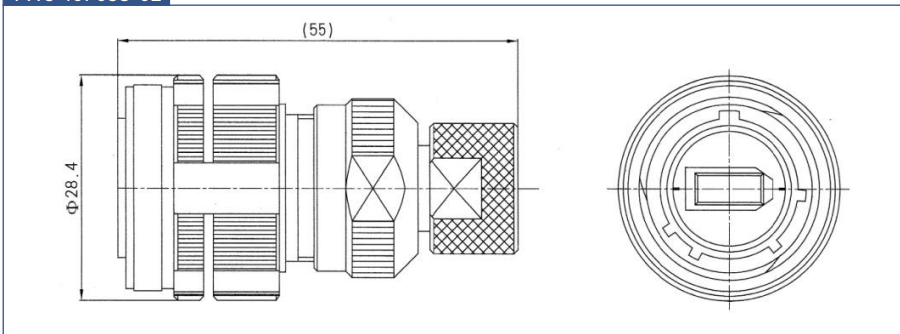
The dimension is same as #9 of MIL-DTL-38999 III.

1394

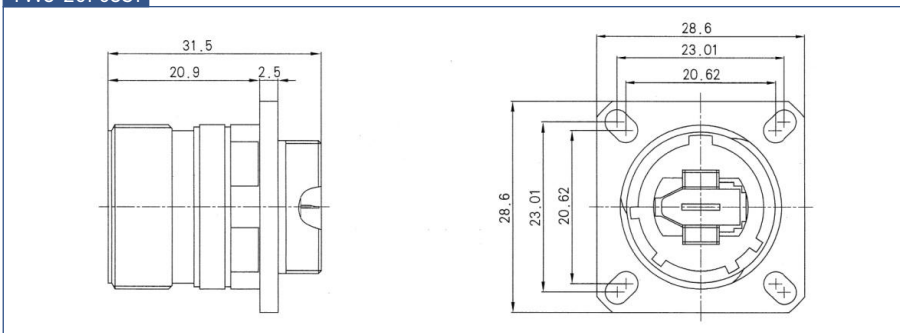
YW3-10F03S-01



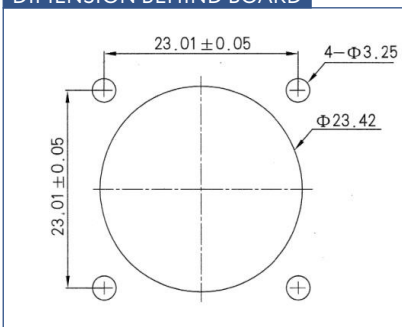
YW3-10F03S-02



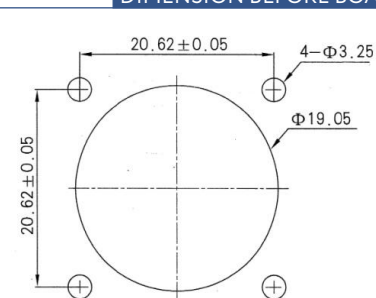
YW3-20F03S1



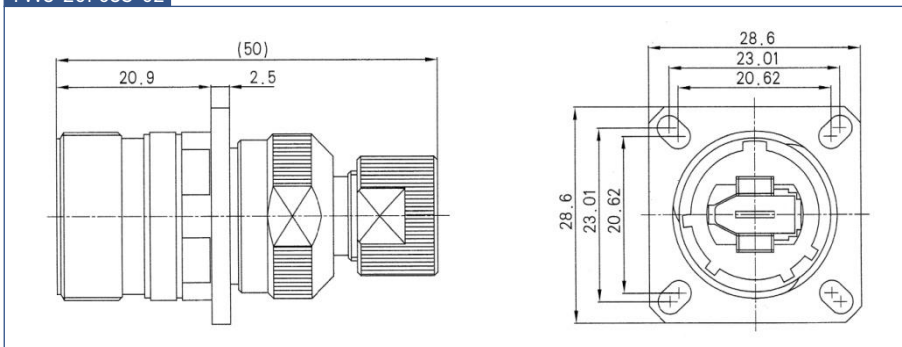
DIMENSION BEHIND BOARD



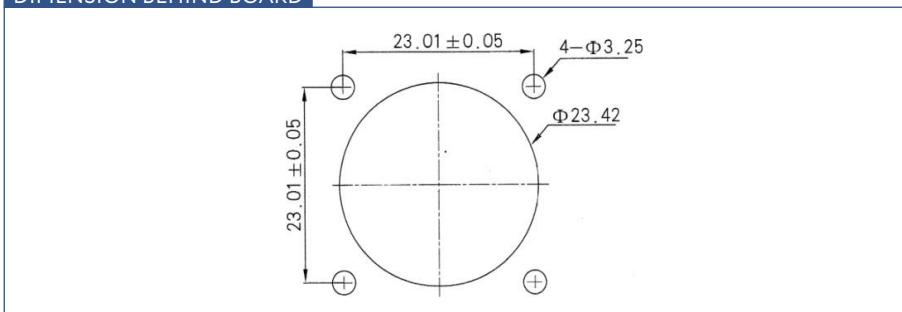
DIMENSION BEFORE BOARD



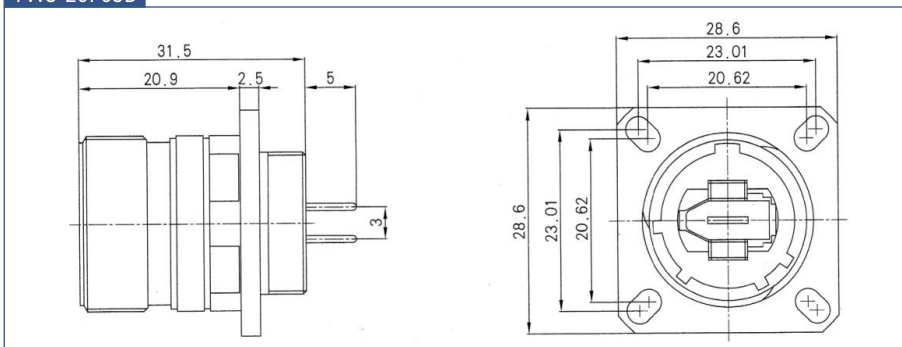
YW3-20F03S-02



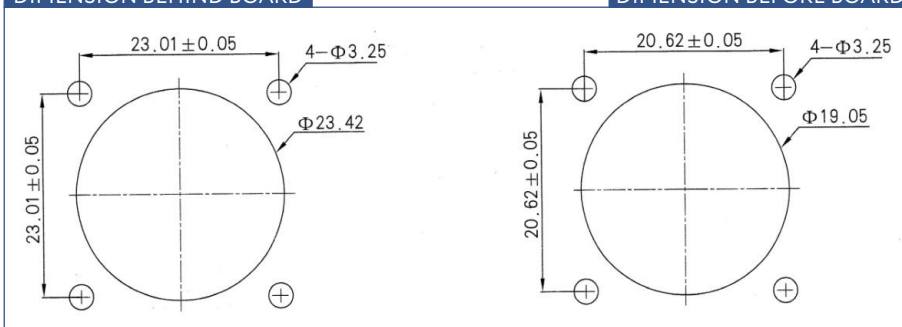
DIMENSION BEHIND BOARD



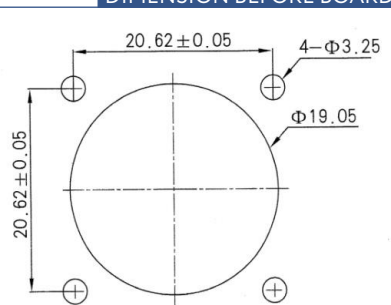
YW3-20F03B



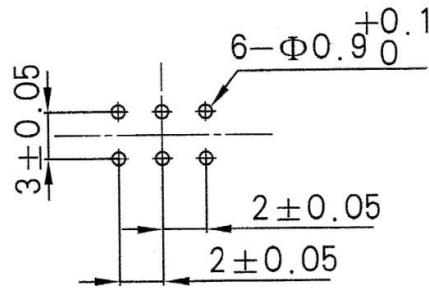
DIMENSION BEHIND BOARD



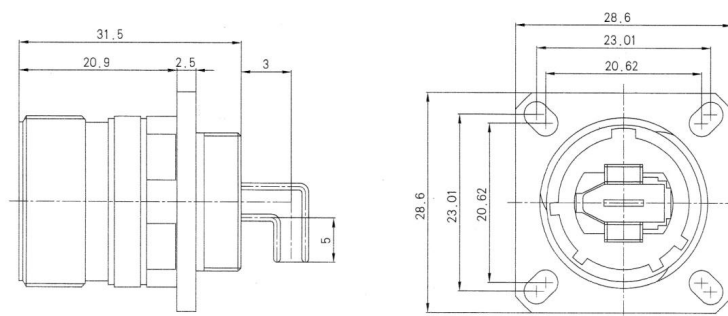
DIMENSION BEFORE BOARD



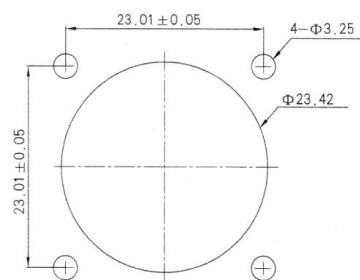
HOLE DIMENSION OF PCB



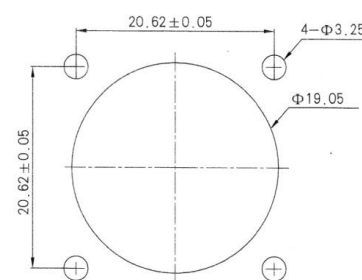
YW3-20F03W



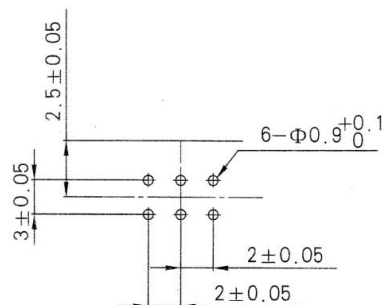
DIMENSION BEHIND BOARD



DIMENSION BEFORE BOARD



HOLE DIMENSION OF PCB

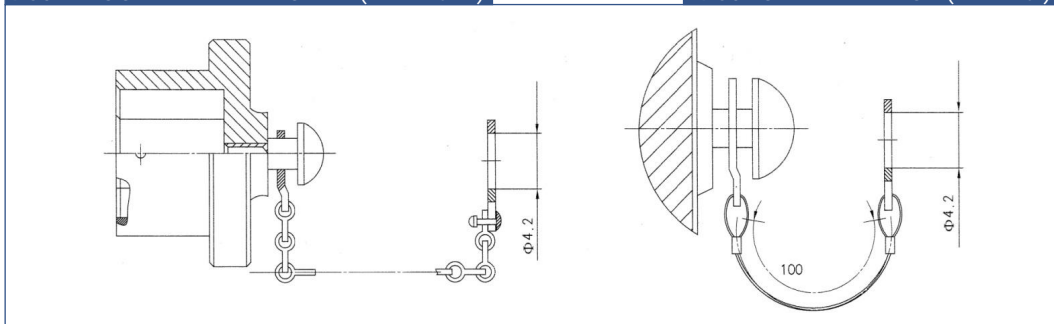


Basic series	YW	1	-1	F	01	L	0
Style	1 = Bayonet 3 = Triple start thread						
Type	1 = Dust cap of plug 2 = Dust cap of receptacle						
Finish	F = Electroless nickel plating B = Cadmium plating E = Stainless steel passivated H = Black L = Olive green						
Type of Internal Interface	01 = RJ45 02 = USB 03 = 1394 04 = Mini USB						
Chain	L = Metal chain Omit = Nylon chain						
Type of chain mounting	O = With fixed ring Omit = With fixed hole						

DUST CAP OF PLUG

DUST-PROOF WITH METAL CHAIN (YW1-1F01-L)

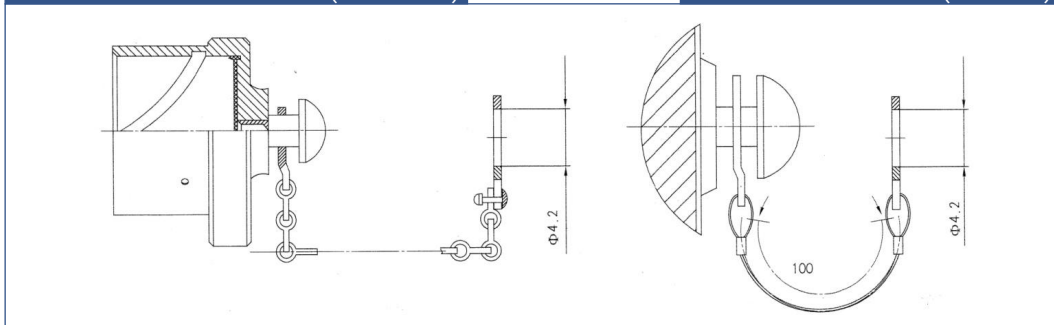
DUST CAP WITH NYLON (YW1-1F01)



DUST CAP OF RECEPTACLE

DUST CAP WITH METAL CHAIN (YW1-2B01-L)

DUST CAP WITH NYLON (YW1-2B01)





MATENG

SHENZHEN MATENG INTERCONNECTION TECHNOLOGY CO., LTD.

[HTTPS://MATENG.TECH/](https://mateng.tech/)