



High performance Low profile rectangular MSG connector

MSG Series connectors is a 50 and 59 position low profile, compact design rectangular I/O connector. MSG has been designed to fit 19 inch Euro-rack system which are widely used in a industrial and railway market. There are boardmount version and panel-mount version. PCB mount version is applicable to PCB wiring pattern for 100V. Some accessories like discrimination keys or dust caps are available.

Performance characteristics

Operating temperature : $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Current rating : 13A (Panelmount)、
7.5A (PCB mount)

Contact resistance : $15\text{m}\Omega$ max.

Insulation resistance : $5000\text{M}\Omega$ min.

Test potential : A.C.2000V (1 minute)

Durability : 500 mating and unmating

Vibration : JIS-C-0040

Vibration/Shock : JIS-E-4031 class B

Salt Spray : JIS-C 0023

Humidity resistance : JIS-C 0028



Construction

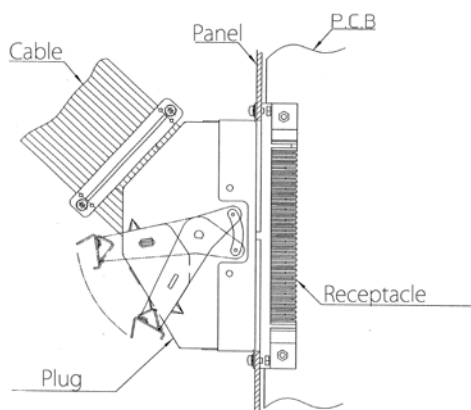
Insert : Glass filled thermoplastic UL94V-0

Contact (PCB) : Brass (Active part : Gold plating over nickel, Crimp part : solder plating)

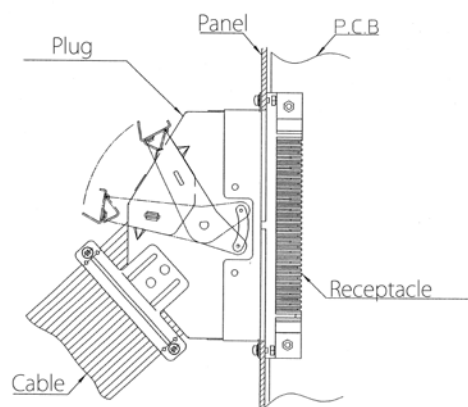
Skirt/Hood : Steel (nickel plating)

Guiding pin/Guiding socket : Stainless steel

Lever (plug) : Stainless steel



Cable Direction: Upper Type



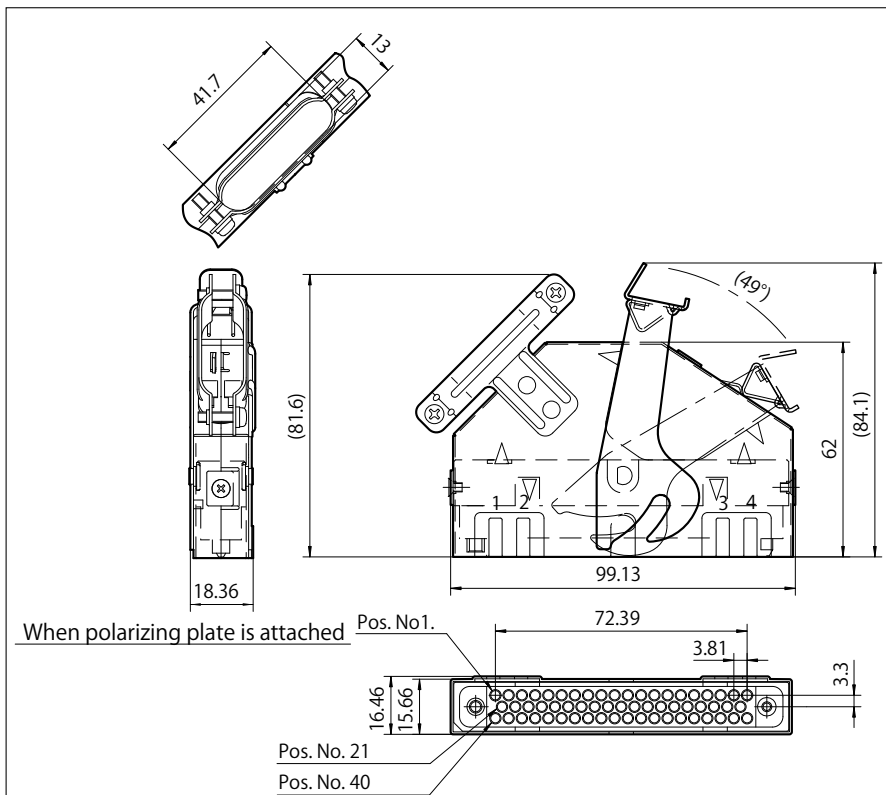
Cable Direction: Down Type

Part Numbers:

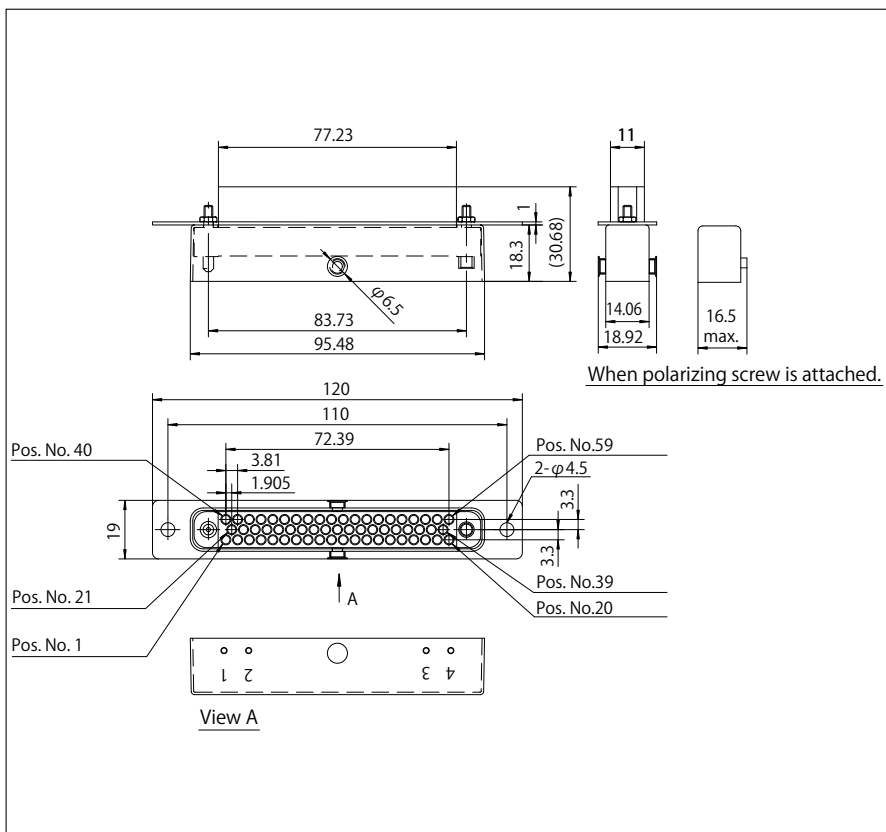
Part Number	Description
MSG59P-L11	59 pins plug, upper cable direction
MSG59P-L21	59 pins plug, down cable direction
MSG59RP-L110	59 pins panel-mount receptacle
MSG59RP-L111	59 pins straight boardmount receptacle
MSG59RR-L111	59 pins right-angle boardmount receptacle without flange
MSG59RF-L111	59 pins right-angle boardmount receptacle with flange
MSG50P-L13	50 pins plug, upper cable direction
MSG50P-L23	50 pins plug, down cable direction
MSG50RF-L111	50 pins right-angle boardmount receptacle with flange, upper cable direction
MSG50RF-L121	50 pins right-angle boardmount receptacle with flange, down cable direction



Plug, upper cable direction (MSG59P-L11)

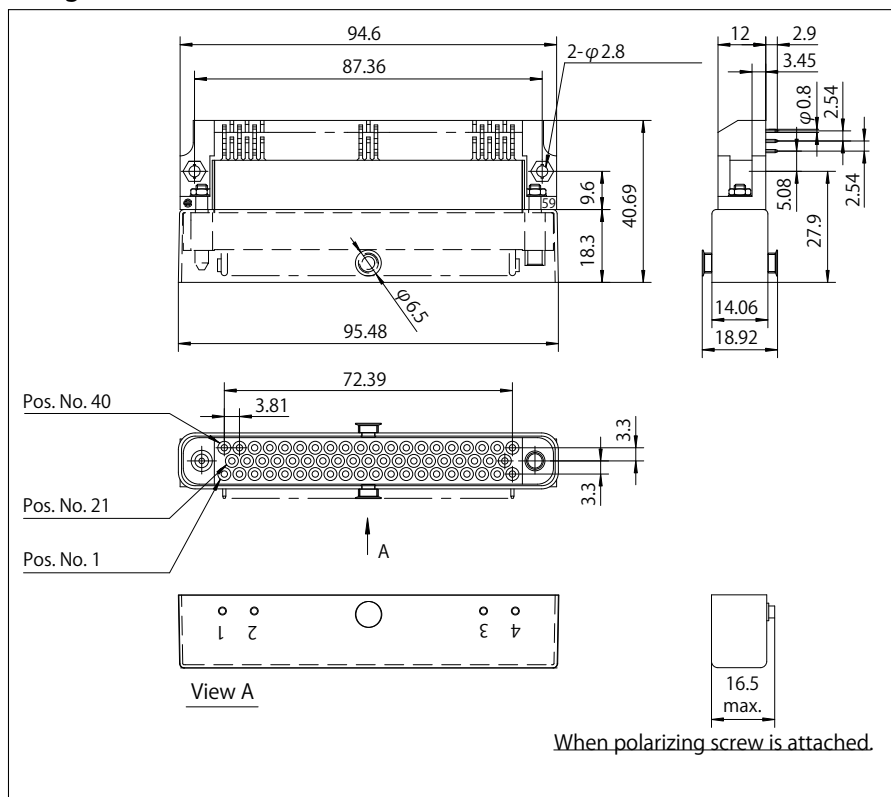


Panel-mount receptacle (MSG59RP-L110)

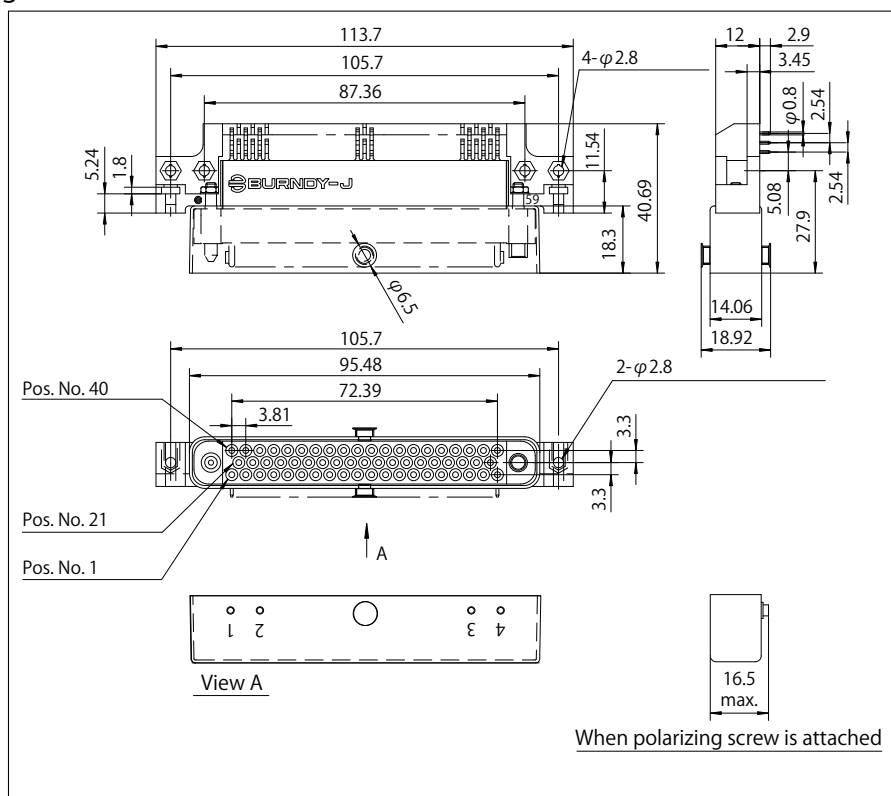




Right-angle PCB receptacle without flange (MSG59RR-L111)

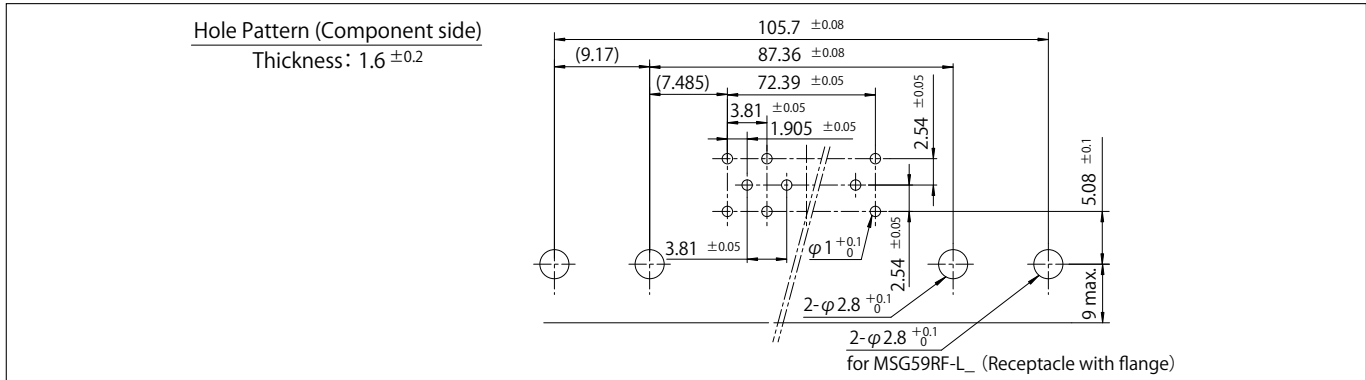


Right-angle PCB receptacle with flange (MSG59RF-L111)

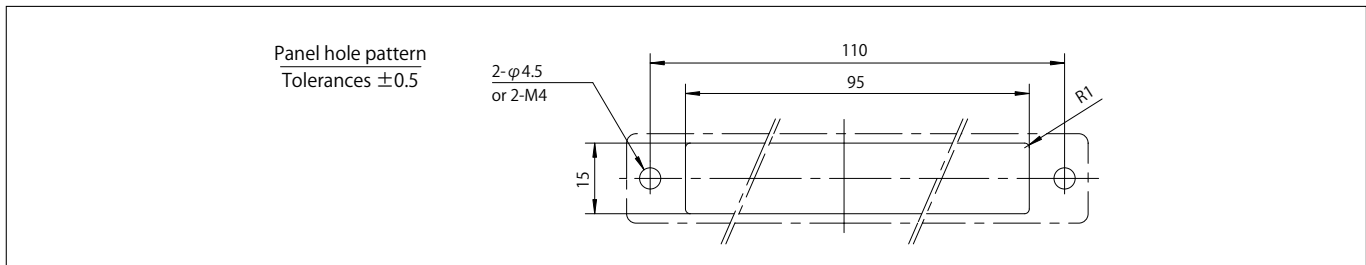




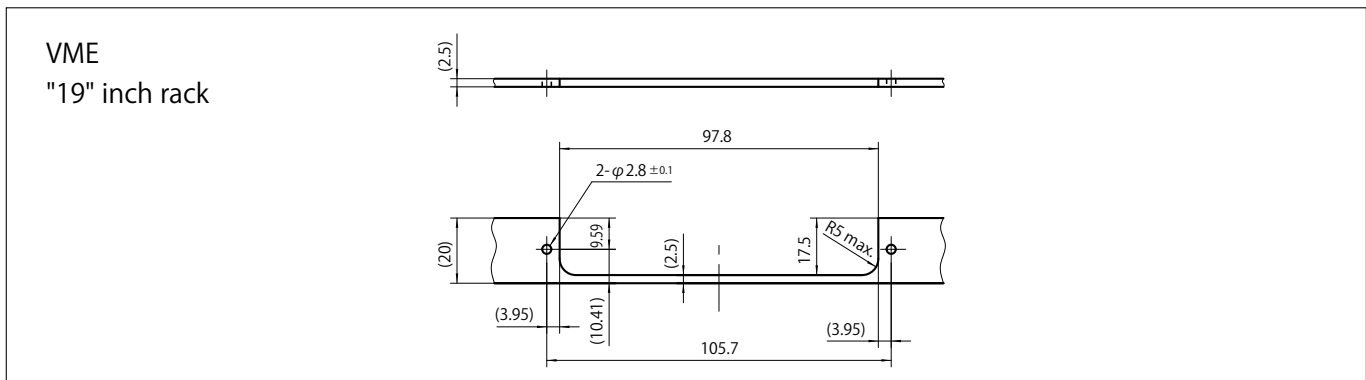
Recommended drilling hole pattern (MSG59RR-L_, MSG59RF-L_)



Panel cut-out (MSG59RP-L110 Front mount)

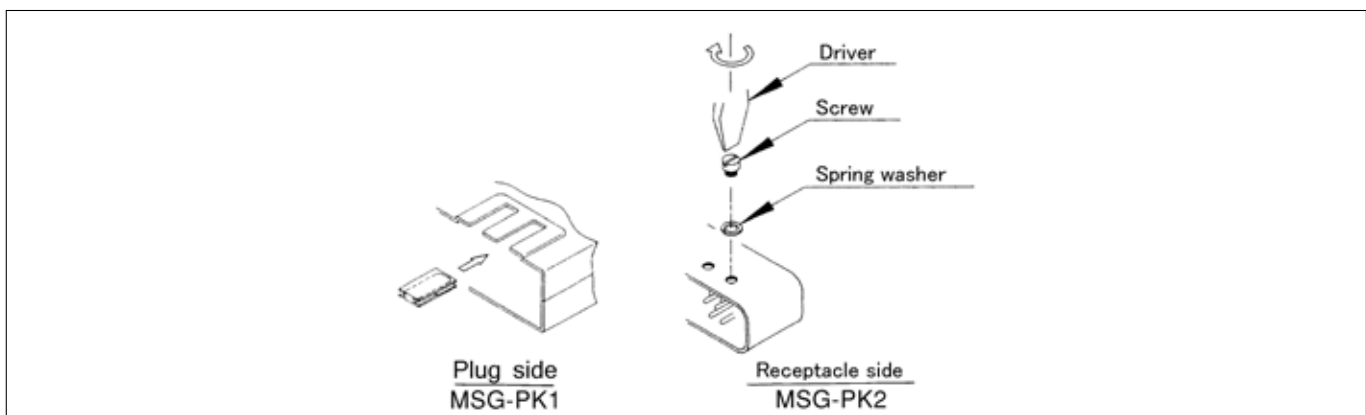


Panel cut-out (MSG59RR-L_, MSG59RF-L_ Front mount)



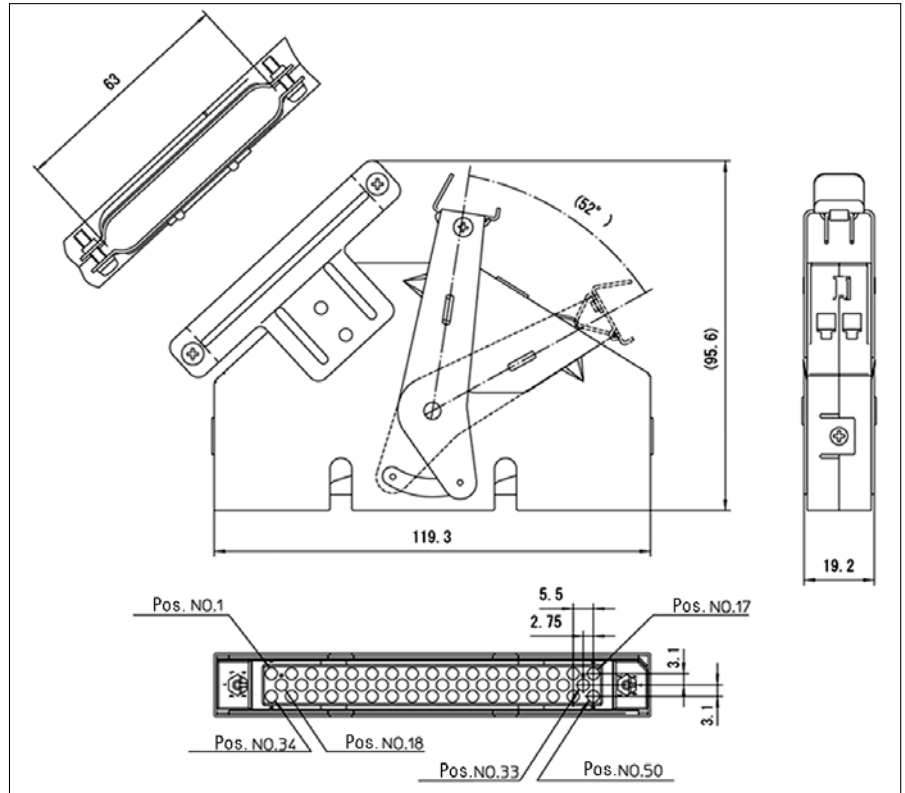
Polarizing hardware

6 patterns with 4 fixing places

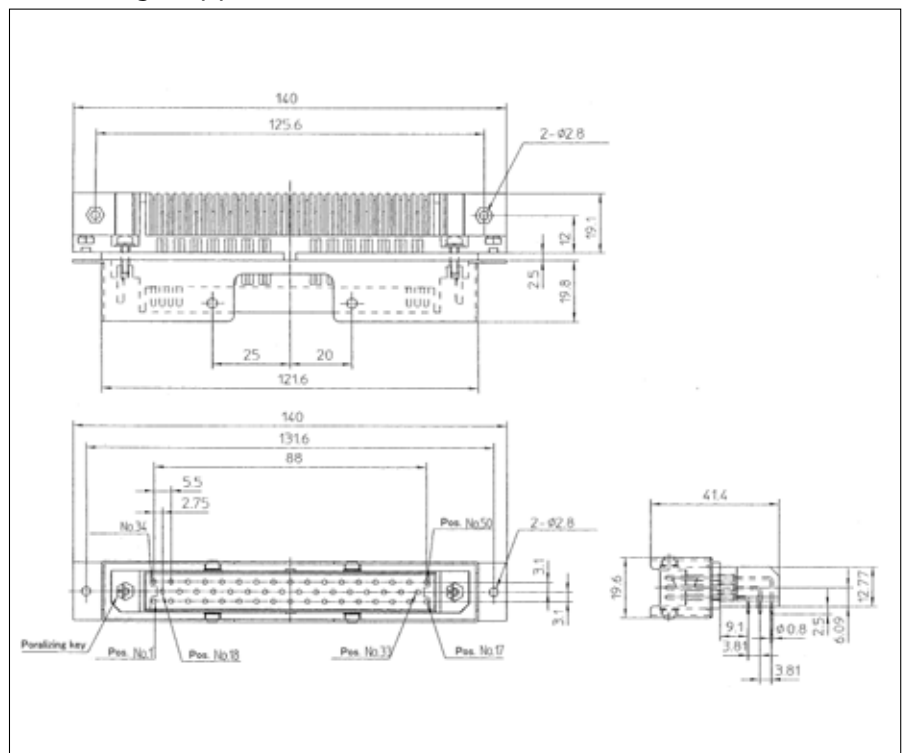




Plug for cable upper direction / Down direction (MSG50P-L13/L23)

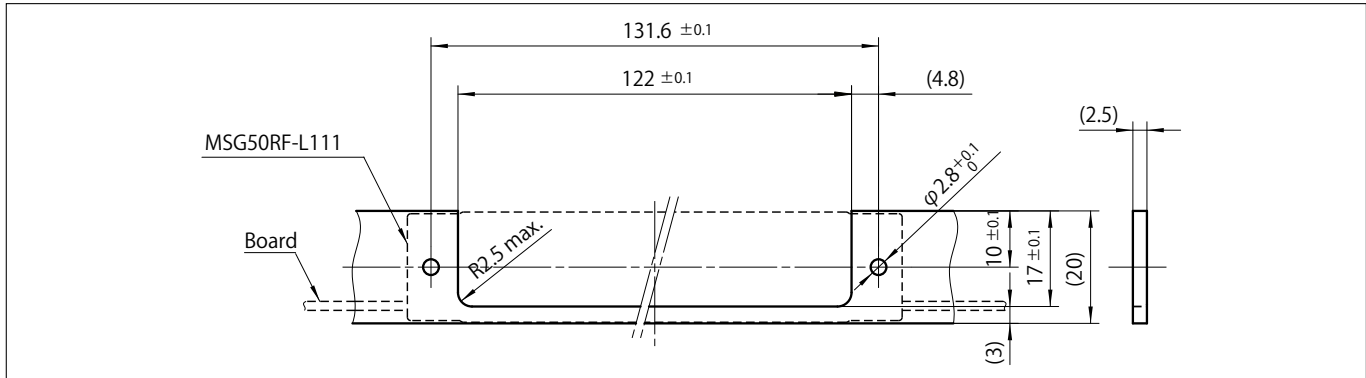


Right-angle boardmount receptacle with flange, upper cable direction (MSG50RF-L111)





Panel cut-out (MSG50RF-L_ Front mount)



Recommended drilling hole pattern (MSG50RF-L_)

