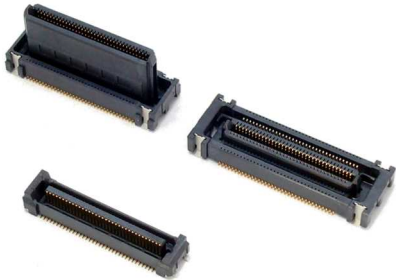


Floating Board to Board Connector 10109/10110 Series



The 10109/10110 Series is a floating board to board connector (0.635mm pitch, 2 rows). To handle wide variances in plug/socket heights and mating types, this connector's mating height options are available every 0.5mm height increment and has a high speed maximum compliance of 5Gbps. The 2-Point Contact is designed to achieve a perfect connection by preventing contact failure and conductivity failure caused by foreign materials. It operates under a wide range of temperatures which makes it ideally suited for the automotive industry(-40 to 105°C).

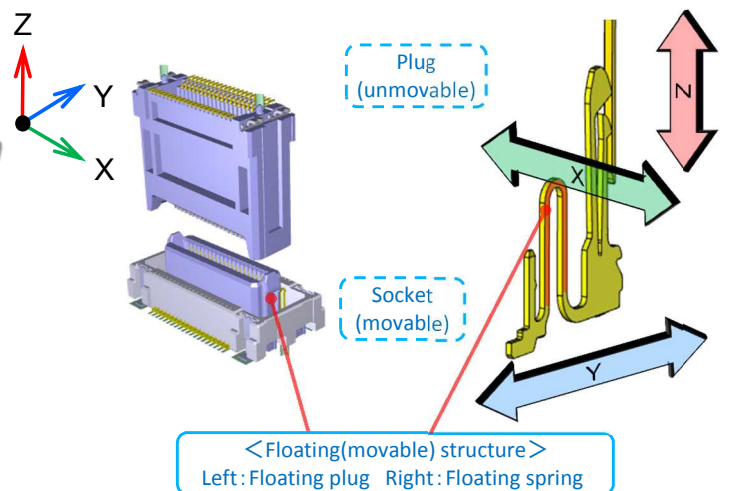
Market/Application

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> ■ Automotive <ul style="list-style-type: none"> • Infotainment • Navigation • Automotive Cameras • Other Automotive equipment | <ul style="list-style-type: none"> ■ Consumer <ul style="list-style-type: none"> • Printer • Other Consumer equipment | <ul style="list-style-type: none"> ■ Industrial <ul style="list-style-type: none"> • PLC • Servo amplifier • Other Industrial equipment |
|--|---|--|

Features

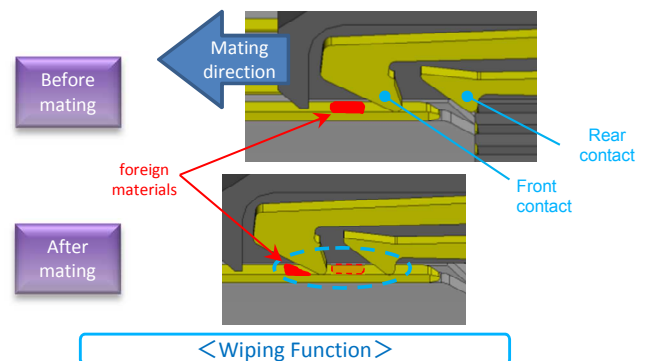
1 Floating and self-alignment function

IRISO Floating Board to Board connectors would offset mating positional error in X/Y direction. It has self-alignment function which offset positional error, and easy for PCB design considering using multiples connectors. In total it would improve operational efficiency.



2 2-Point Contact Wiping Function

The shorter and narrower a connector, the more susceptible it will be to foreign materials, affecting the reliability of the connection. IRISO's 2-Point Contact wiping solution achieves a strong reliable connection by arranging dual contacts in tandem. When connecting, the front contact clears foreign materials allowing the second contact to have a cleaner connection.

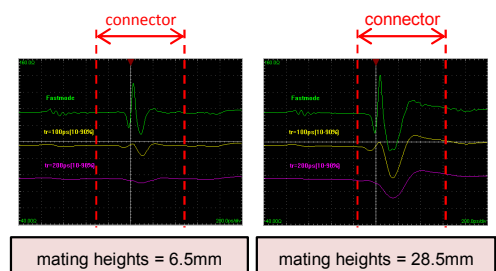


3 High speed transmission

Design approach considering SI characteristic*1 realize low loss • high frequency characteristic (5Gbps max *2/ 100Ω).

(*1) Signal Integrity, Quality of transmission signal

(*2) According to mating height. Please make an inquiry to our sales rep.



<Characteristic impedance>

Difference between other mating heights

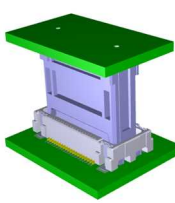
Specification

1	Series No.	10109/10110 Series
2	Pitch	0.635 mm
3	No. of contact	30, 40, 50, 60, 70, 80, 90, 100, 120 pin
4	Connection type	10110: horizontal 10109: vertical
5	Stacking height	6.5 ... 30.55 mm
6	Mounting method	SMT
7	Contact material	Copper Alloy
8	Plating	Au over Ni
9	Current rating	0.5 A / pin
10	Voltage rating	50 V (AC/DC)
11	D.W. voltage	250 V (AC, 1 min)
12	Insulation Resistance	500 MΩ or more
13	Operating temperature	-40 ... 105 °C
14	Characteristic impedance	100 Ω
15	Transmission rate	5 Gbps max

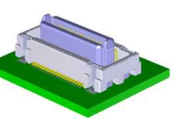
For more info:

info@irisoconnectors.com

Combination table



Top:plug
+bottom:socket



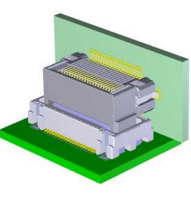
10109S(socket)

unit:mm

	type (y)	C,D	L,M	J,K	G,H	Z013,Z014	A,B	R,S	E,F	
	type (y)	Height (H)	4.85	7.0	9.0	11.0	13.0	15.0	17.0	19.5
	E,F	4.5	6.5	8.5	10.5	12.5	14.5	16.5	18.5	21.0
	A,B	7.5	8.5	10.0	12.0	14.0	16.0	18.0	20.0	22.5
	C,D	8.5	9.5	11.0	13.0	15.0	17.0	19.0	21.0	23.5
	G,H	13.5	14.5	16.0	18.0	20.0	22.0	24.0	26.0	28.5
	L,M	15.55	16.55	18.05	20.05	22.05	24.05	26.05	28.05	30.55

10109B(plug)

type (y)	C,D	L,M	J,K	G,H	Z013,Z014	A,B	R,S	E,F
E,F	4.5	6.5	8.5	10.5	12.5	14.5	16.5	18.5
A,B	7.5	8.5	10.0	12.0	14.0	16.0	18.0	20.0
C,D	8.5	9.5	11.0	13.0	15.0	17.0	19.0	21.0
G,H	13.5	14.5	16.0	18.0	20.0	22.0	24.0	26.0
L,M	15.55	16.55	18.05	20.05	22.05	24.05	26.05	28.05

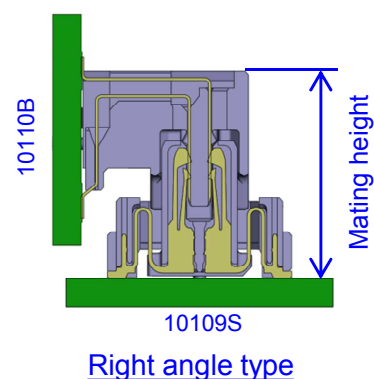
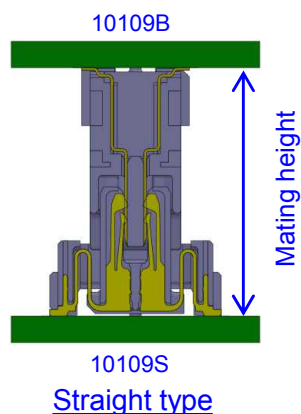


Top:plug
+bottom:socket

unit:mm

	type (y)	A,B
10110B [Right angle plug]	type (y)	A,B
	Height (H)	9.4
10109S(socket)	E,F	Not available
	A,B	10.7
	C,D	11.7
	G,H	16.7
	L,M	18.75

Low profile



For more info: info@irisoconnectors.com