



To lead the connector markets in China with worldwide coverage of products and high-quality services

CONTENTS

ABOUT BJD PRODUCTION CAPACITY NEW PRODUCTS AND PRODUCT AND MARKET **CUSTOMIZED CASES**



COMPANY PROFILE



ABOUT US

Established in 2004

BJD entered the automotive electronics industry as one of the early players, focusing on delivering reliable solutions.

Our range of connector solutions finds applications in automotive electronics, industrial control, LED commercial displays, medical, security, and other fields. Our product portfolio includes FPC Connectors, FFC cables, High-Frequency connectors(Fakra, Mini-Fakra, SMB, HSD, automotive ethernet), Floating B-to-B connectors, Wire-to-Board Connectors, I/O Plug, and new energy Connectors



CAPABILITY

- · Automated Production Line
- Injection Molding, Stamping, Assembly Automation
- Independent Design and Development Team



500+ Employees



COMPANY MILESTONES

BJD

2005-2010

- FPC connectors and FFC cables
- TS16949 certification
- Entered the automotive industry

2014

 Automation team

 (independent design and manufacturing of automated assembly line)

2017

- FAKRA and HSD connectors
- Entered the European and North American markets

2021

Smart Factory (ERP, MES)

2025

 Vietnam factory

2004

 Company was established

2012

- Production plant area expanded to 16,000m²
- Wire-to-Board connectors

2015

• I/O Socket connector

2020

- Passed the VDA6.3 standard audit
- Established a tooling department(In house tooling design and manufacturing)

2024

- The second production factory
- The CNAS certificated laboratory

COMPANY FOOTPRINT

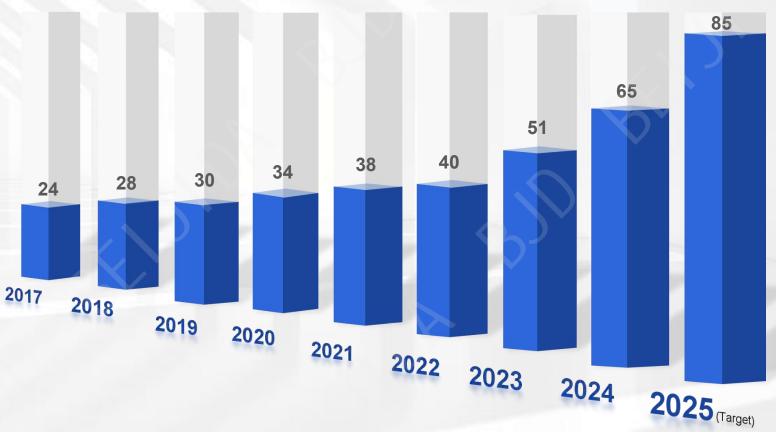








Unit: Million USD





Team Overview

BJD

Details

Dep	artment	Number	5-10 years and up	3-5 years	Less than 3 years
	R & D	8	6	2	0
	QC	6	3	2	1
	PMC	11	2	5	4
	Admin	8	0	3	5
Others	Finance	6	3	3	0
	Sales	20	6	9	5
	Management	5	5	0	0
	Consultant	3	3	0	0
	Total	64	28	22	15
	R & D	8	2	3	3
FPC/B to B Conn.	QC	8	0	2	6
Workshop	Production	138	6	51	81
	Total	153	8	55	90
	R & D	5	3	2	0
FFC	QC	5	0	1	4
Workshop	Production	113	4	39	74
	Total	127	7	42	78
	R & D	10	4	3	3
Customiz ed.	QC	5	2	1	2
Workshop	Porduction	51	2	27	22
	Total	64	7	30	27
	Total	409	50	149	210

— R&D Department —

Inject. Mode Design: 3

2015

Stamp. Mode Design: 3 Inject. Mode Design: 3 Product Design: 6 Process Design: 4 Stamp. Mode Design: 2 Japanese Management: 2023

Stamp. Mode Design: 6 Product Design: 12 Process Design: 5 CAE Simulation Engineer: 1 Mold Flow Analysis Engineer: 1 SI (Signal Integrity) Simulation

Inject. Mode Design: 6

Engineer: 1

Japanese R&D and Management: 4

35





Awarded

2012

Product Design: 3

Process Design: 3

Japanese Management:

Dongguan New Automotive Electronic Connector (JUSTCONN) Engineering Technology Research Center

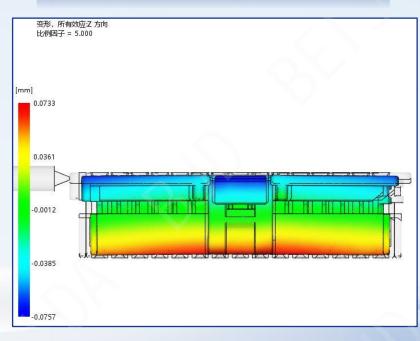
Engineering R & D capabilities

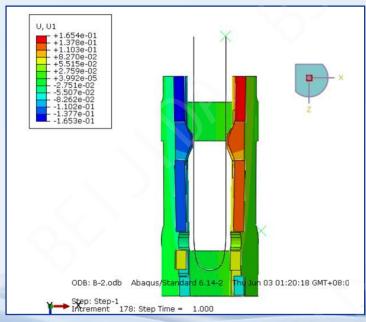


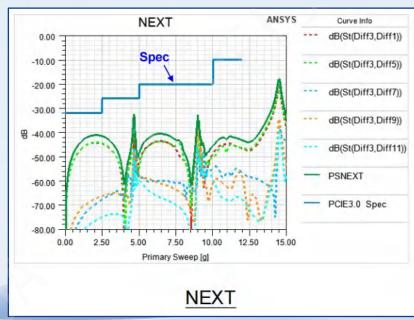
The ability of mold flow analysis

CAE structural simulation analysis

Signal Integrity simulation analysis





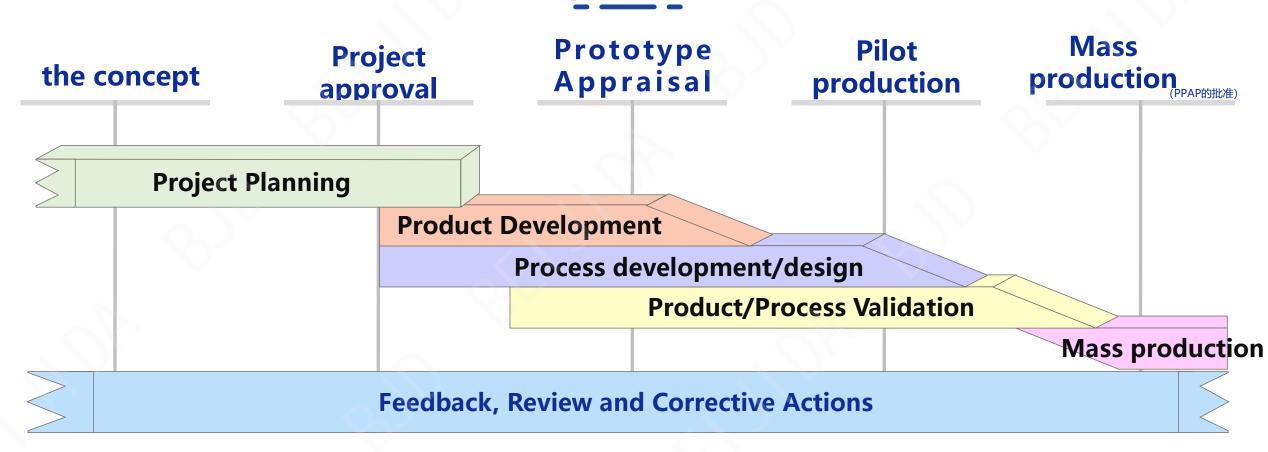


Project Management Capabilities

BJD

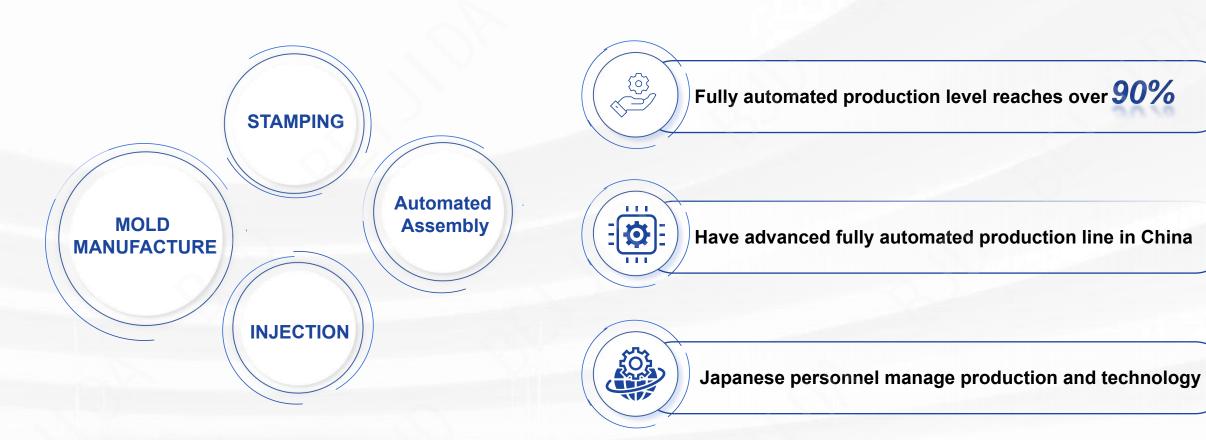
Boasts a robust project management framework with demonstrable expertise in executing multiple successful project initiatives

The five phases of APQP



MANUFACTURING CAPABILITY





MANUFACTURING CAPABILITY









EQUIPMENT STATUS



Equipment	Model	Process	QTY	Equipment	Model	Process	QTY
Conn. Injection machine	Japan FANUC 50T/Taichung Seiki	Injection	35	Automatic inspection machine 自动检查机	Independent Design	FFC size inspection	11
Conn. Stamping machine	YAMADA	Stamping	22	Edge punching machine 冲边机	Independent Design	FFC punching	7
Conn. automatic assembly machine	Independent Design	Assembly	50	Automatic punching machine 冲卡扣机	CTY	FFC punching	3
Conn. Semi-automatic assembly machine	Independent Design	Assembly	10	Automatic line drawing machine 自动画线机	CTY	FFC line drawing	3
Conn. Winding machine 卷装机	Independent Design	Assembly	6	Cutting machine 切断机	CTY	FFC cutting	9
Wire drawing machine 伸线机	СТҮ	Conductor stretch 拉伸	2	Automatic folding machine 折线机	Independent design	FFC broken line processing	2
Calender 压延机	СТҮ	Conductor rolling 压延	5	Automatic sticking machine 贴麦拉机	CTY	FFC paste wheat processing 贴麦拉加工	2
Pressing machine 压合机	СТҮ	FFC pressing 压合	8	Automatic laser machine 镭射机	Taiwan/Mileage Technology	FFC shield processing	1

QUALITY SYSTEM





BJD HAS MORE THAN 60 PRODUCT TECHNOLOGY PATENTS

BJD has won the titles of

- Provincial Specialized and Special New Enterprise
- Dongguan New Automotive Electronic Connector Engineering Technology Research Center

TESTING CAPABILITY- BJD LABORATORY



BJD'S IN-HOUSE LABORATORY

serves as an umbrella to protect all products to meet customer requirements.

The CNAS certification laboratory has completed construction, and the certification has been granted since Sep. 2024



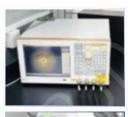
TESTING CAPABILITY- BJD LABORATORY





MECHANICAL PERFORMANCE TEST

- Dimension measurement 尺寸测量
- Insertion/withdrawal force test 插入拔出力测试
- Contact Retention test 保持力测试
- · Normal force test 正向力测试
- Shock Test 机械冲击测试
- Vibration test with temperature and humidity 带温度湿度振动测试
- Tumbling test 滚筒跌落测试







ELECTRICAL PERFORMANCE TEST

- Electric Strength test 耐压测试
- · Continuity test 导通测试
- Insulation resistance test 绝缘电阻测试
- · Contact resistance test 接触电阻测试
- Temperature rise test 温升测试
- Instant break test 瞬断测试
- SI signal (IL, SWR, RL, Impedance, Eye Diagram) testSI 信号(插损,驻波比,返回损耗,阻抗,眼图)测试





ENVIRONMENTAL EXPERIMENT TEST

- Thermal shock test 冷热冲击
- Humidity resistance test 温湿度循环试验
- Salt spray test 盐雾试验
- High temperature test 高温试验
- High and low temperature experiment 高低温实验
- Reflow experiment 回流焊实验



OTHERS

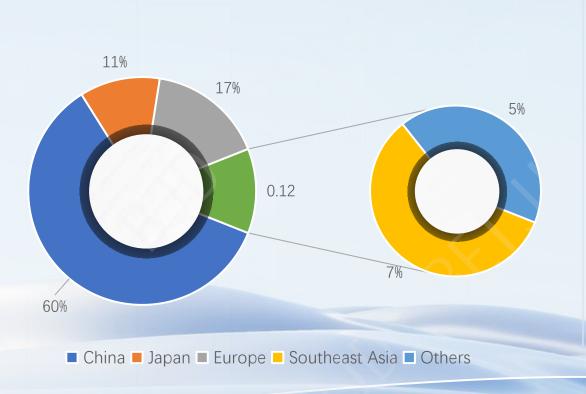
- Environmental testing 环保测试
- Film thickness test 膜厚测试
- Moisture test 水分测试
- · Solderability Test 可焊性测试
- X-ray perspective detection X射线透视检测



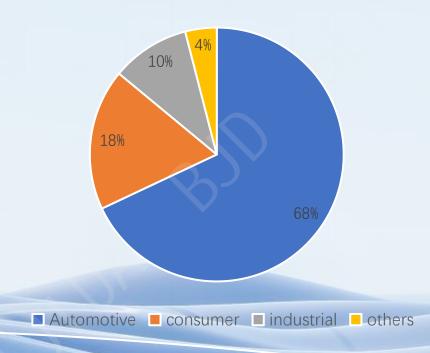
MARKET PERFORMANCE







2024 MARKET DISTRIBUTION



BUSINESS PARTNERS





BUSINESS PARTNERS





MAIN BUSINESS

























1. FFC/FPC CONNECTOR



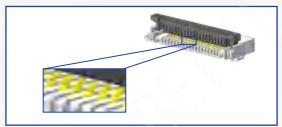


BJD offers multiple lock structures, including front/back flip, slider, and the cutting-edge **Auto-Lock** feature.



3. HIGH RELIABILITY MODELS

Thoughtfully designed to meet strict high-reliability standards, featuring elements like foolproof design, **double contact structure**, and more.



2. DIVERSE PRODUCT CATALOG

From 0.4mm pitch to 0.5mm, 1.0mm and 2.0mm pitch.

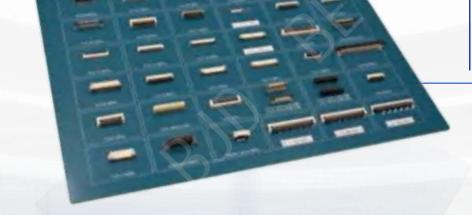
BJD offer a diverse product catalog with 40+ different series FPC connector and **matching FFC cables**



4. EXCELLENT ELECTRICAL PROPERTIES

Discover models with exceptional electrical performance, featuring ground structure and shielded FFC cables that support high-speed transmission.





30+ Series

Up to 120PIN

1. FPC CONNECTOR/ FFC



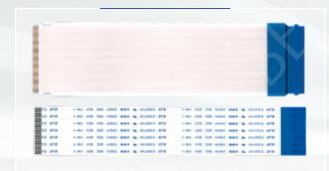


多种类,多工艺可选

(按需定制)

(Customize as required)





FFC for LCD display







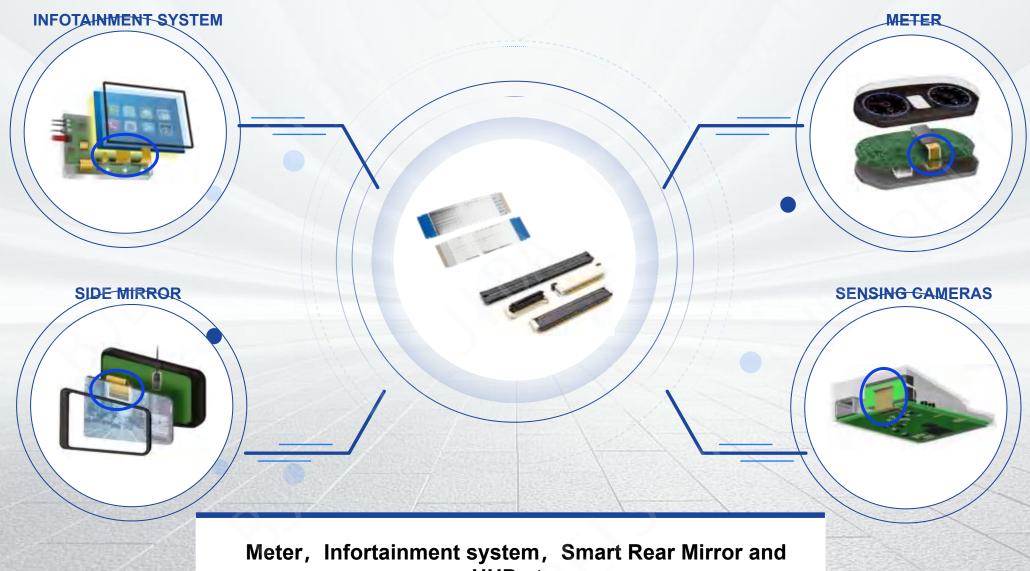






1. FFC/FPC CONNECTOR - APPLICATION





HUD etc.

2. FLOATING & COPLANAR BOARD TO BOARD



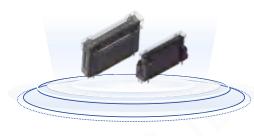
0.5-8 SERIES

0.5mm Pitch / XY±0.8mm floating, 20~160Pins / 10~30mm stacking height High speed 16Gbps+ / High current 6A*4Pin



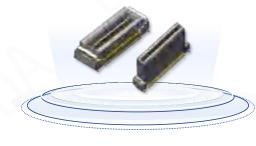
0.8-12 **SERIES**

0.8mm Pitch /non-floating 40~180Pins



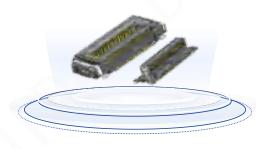
0.5-5 SERIES

0.5mm Pitch / XY±0.6mm floating, 20~120Pins / 8~30mm stacking height High speed 8Gbps+ / High current 5A*4Pin



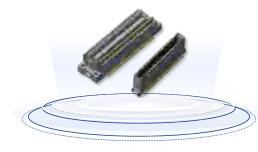
0.635 SERIES

0.63mm Pitch / XY±0.7mm floating, 60~80Pins / 6~15mm stacking height



0.4 SERIES

0.4mm Pitch / XY±0.4mm floating, 20~60Pins / 3~4mm stacking height High speed 8Gbps+



0.8 SERIES

0.8mm Pitch / XY \pm 0.5mm floating, 30~80Pins / 6~24.7mm stacking height

Widely used in various fields such as smart cabins, radar systems, commercial displays, etc.

3. PIN HEADER & WIRE TO BOARD (IN/OUT)

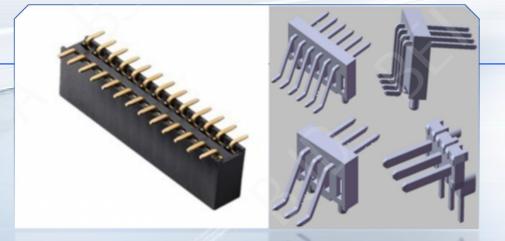


VERSATILE CONFIGURATIONS

Offer unparalleled flexibility to suit diverse applications with a wide range of pin configurations and form factors available.

TAILORED SOLUTIONS

Products can be customized to suit specific needs, providing solutions as unique as clients' projects demand.



RIGOROUS TESTING

Stringent testing protocols delivering consistent performance in demanding environments.

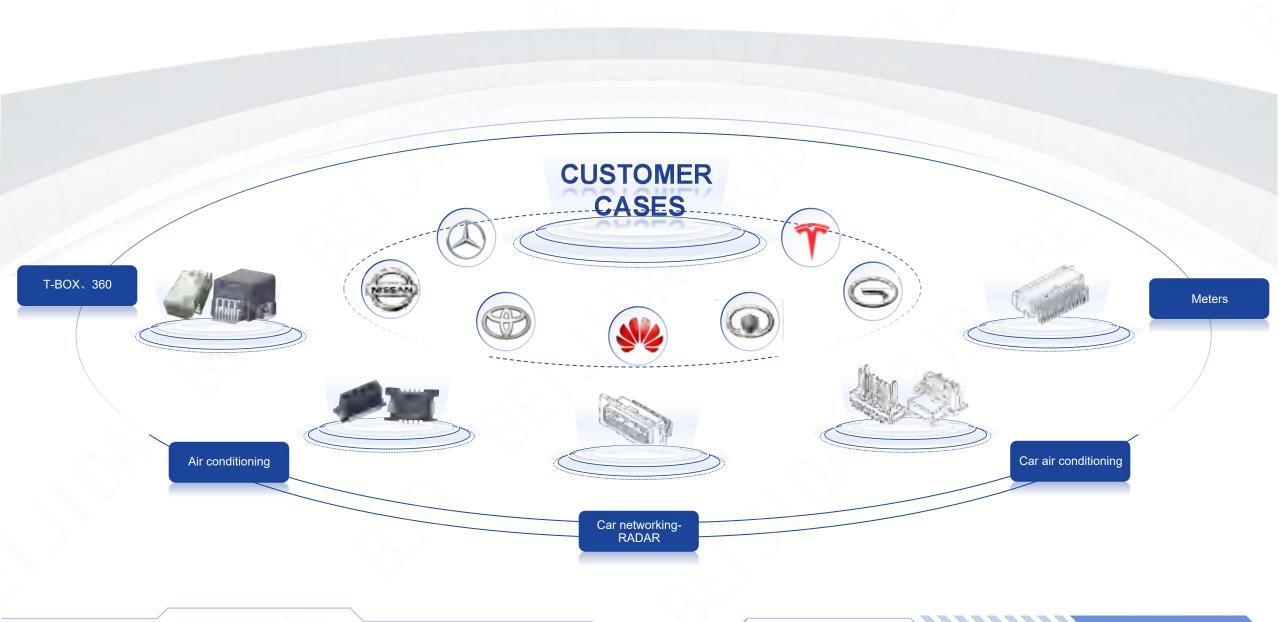
PROVEN TRACK RECORD

With over decade of experience, our product is Backed by a history of excellence.



3. PIN HEADER AND PCB HEADER – CUSTOMER CASES





4. HIGH FREQUENCY CONNECTOR (HSAL II)





- Multiple Codes
- Common PCB Layout and wire harnesses Compatibility
- Ensures reliable and stable connectivity in diverse applications
- Diverse Solutions to meet various requirements

APPLICATION

- High Speed Cable Networking
- Sensor Device Connectivity
- ADAS
- GPS / Infotainment
- ...



Complete development, production, and sales of wire harnesses and board-end assemblies.



TRANSFER PROTOCOL

Multiple high-speed transport protocols can be supported, such as:

- FPD-Link4(13.5Gbps)
- USB3.1(5Gbps)
- LVDS (8Gbps-4Gbps per channel)
- DisplayPort

MAIN PRODUCTS





5. AUTOMOTIVE WIRE TO BOARD CONNECTOR





- Various Pitch Options
- Secondary Locking Structure (TPA/CPA)
 - Anti-Slant Insertion/Blind Insertion
- Closed Terminal Construction Ensuring durability and stability, even in rugged conditions.
 - Wide Operating Temperature Range from -40°C to +125°C

Trusted by

leading brands such as BYD, GAC, NISSAN, GEELY and many more.

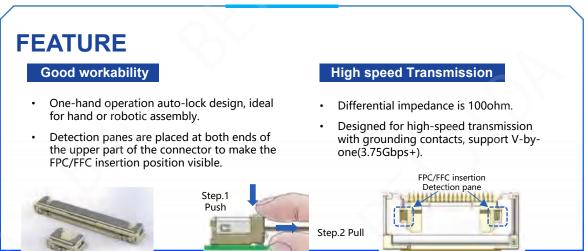


FPC0.5-27 AUTO-LOCK FFC/FPC CONNECTOR (RA TYPE)

W 6.9







SPECIFICATIONS

Pitch	0.5mm	
Height	3.4mm	
Mount type	Right angle	
Operation	Auto Lock	
Lock	Non-ZIF	
CKT	8 ~ 60P	
Rated current	0.5A/Pin	
Operating temperature range	-40 ~ 125°C	

APPLICATION



LiDAR



ECU for view camera



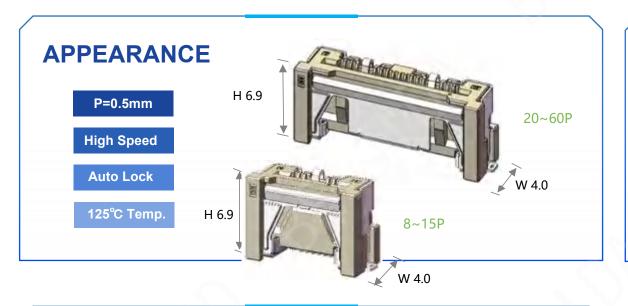
Radar

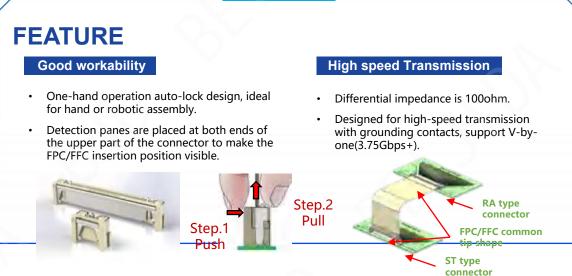


Driver monitoring system

FPC0.5-28 AUTO-LOCK FFC/FPC CONNECTOR (ST TYPE)







SPECIFICATIONS

Pitch	0.5mm	
Height	6.9mm	
Mount type	Straight	
Operation	Auto Lock	
Lock	Non-ZIF	
CKT	8 ~ 60P	
Rated current	0.5A/Pin	
Operating temperature range	-40 ~ 125°C	

APPLICATION



LiDAR



ECU for view camera



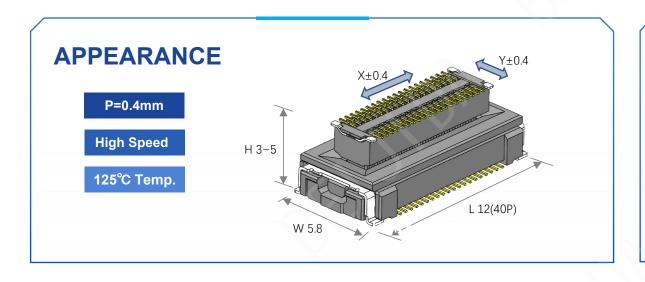
Radar

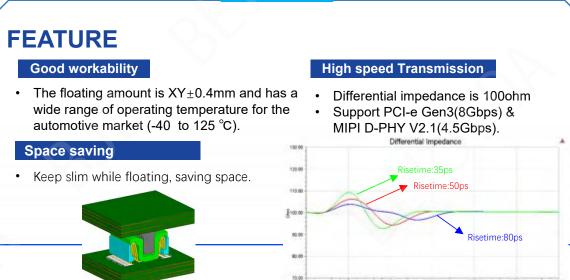


Driver monitoring system

BTB0.4 Series Floating Board to Board Connector







SPECIFICATIONS

Pitch	0.4mm	
Connection style	Parallel	
Stacking height	3 ~ 4mm	
Floating range	XY±0.4	
CKT	20 ~ 60	
Rated current	0.4A/PIN	
Operating temperature range	-40 ~ 125°C	

APPLICATION



 Millimeter-wave radar



• Lidar/3D Lidar



Smart Rearview Mirror



Driver monitoring system



View camera









0.5-8 High-speed Transmission Floating Series





FEATURE

Good

- Floating range is ±0.8mm in X, Y directions can be advantage in customer assembling.
- · With positioning columns

High current

Hybrid Power Design, 6A/PIN × 4 lines.

High speed

- Differential impedance is 85ohm
- Support PCI-e Gen4 (16Gbs)

SPECIFICATIONS

0.5 mm
Parallel
10 ~ 30mm
XY±0.8mm
20 ~ 160P
Signal 0.5A/Pin, Power 6A/Pin
-40 ~ 125°C

APPLICATION



Millimeterwave radar



Lidar/3D Lidar



Electronic Control Unit(ECU)



Car Informatic Device(CID)



Smart Rearview Mirror



Smart Rearview Mirror













BTB0.8mm, Coplanar type High-Speed Rigid BTB Connector BJD



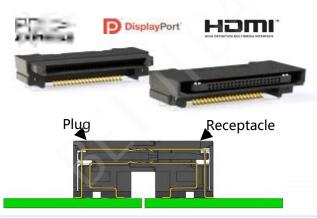
APPEARANCE

P=0.8mm

High Speed

Hot Plug

Mating Detection



Cross-sectional view

SPECIFICATIONS

Pitch	0.8mm
Connection style	Coplanar
3-sequence contact	$MFA \to Signal \to MFB$
Floating range	Non-floating
CKT	40 ~ 180P
Rated current	Signal 0.5A/Pin, Power 5A/Pin
Operating temperature range	-55 ~ 105°C

FEATURE

Good workability

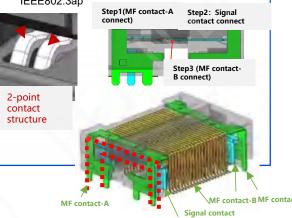
 The power contact designed with 2-point contact to provide reliable contact.

3-Sequence contact

- 4Pin Multiple function contacts are configured on both sides of the connector.
- They can be used as power contacts to save the occupation of signal contacts, 5A/Pin × 4lines.
- 3-section sequential contact. (MF contact-A →Signal contact → MF contact-B)
 - Enhanced ground connections between PCB's

High speed Transmission

- Differential impedance is 100ohm
- Support PCI-e Gen4 / eDp1.4 / HDMI2.1 / IEEE802.3ap



APPLICATION



Commercial conference display



Open Pluggable Specification (OPS



Industrial equipment







MF contact-B

FFC&FPC TO BOARD CONNECTOR

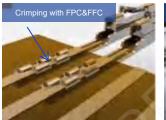




FEATURE

Good workability

- Crimping with FFC&FPC for replacement wire harness
- Miniaturization and weight reduction(VS Conventional wire-toboard)
- Robustness(VS Conventional FPC connector)
- With anti-slant insertion/blind insertion function(VS Conventional FPC connector)





SPECIFICATIONS

Pitch	2.0mm
Connection style	Vertical
CKT	40, 48P(Dual row)
Rated current	1A/Pin(Crimping with FFC&FPC)
Operating temperature range	-40 ~ 105°C
Follow standard	LV214(VW75174)
Vibration classes	V214 S2
Soldering process	SMT

APPLICATION



Automotive BMS



Automotive Lighting



Electric Vehicle





... ...



NO.	Product Name	Product Picture	Product Application	End Customer	SOP Date
1	36POL I/O connector	rummum 3	VW ConMod	AUDI VW	2023
2	P2.54-6P Pin header*2 P2.54-4P Pin header		MODEL 3 Platform	TESLA	2019
3	P2.54-3P Pin header P2.0-3P Pin header P1.8pitch-4P Pin header	M	MODEL Y Control Switch	TESLA	2020
4	48PINS IO connector		Seat Control Switch (Platform)	Ford	2020
5	P3.5-24P pin header conn.	The same	Amplifier	Daimler	2024



NO.	Product Name	Product Picture	Product Application	End Customer	SOP Date
6	14PINS-SMT-180 pin header		Air Conditioning Control	TOYOTA	2021
7	025 series 40P pin header		Seat	GAC	2020
8	9491 series 40P pin header		T-BOX	NISSAN /Chery/ Wuling	2019
9	P2.2-8-32P pin header		Huawei Internet of Vehicles System	HUAWEI	2020
10	0.5pitch-80P floating B to B		LED Display	Hikvision	2020



NO.	Product Name	Product Picture	Product Application	End Customer	SOP Date
11	0.5-18-60P FPC connector		VS30 Platform	Merced es-Benz	2019
12	0.5-22-50P FPC connector		MEB Platform tform	VW	2018
13	FAKRA-A Code		Navigation	FIAT/SA IC	2019
14	BTB 0.8-5-80P		MTK Platform	Geely	2019
15	BTB0.5-5 H25/120P		Domain Controller	SAIC CHANGAN Great wall	2021 ~2023



NO.	Product Name	Product Picture	Product Application	End Customer	SOP Date
16	BTB0.5-5 H25/60P BTB0.5-5 H25/100P		Domain Controller	Geely/ Volvo	2022
17	BTB0.5-5 H20/60P		Smart Cockpit	GAC	2023

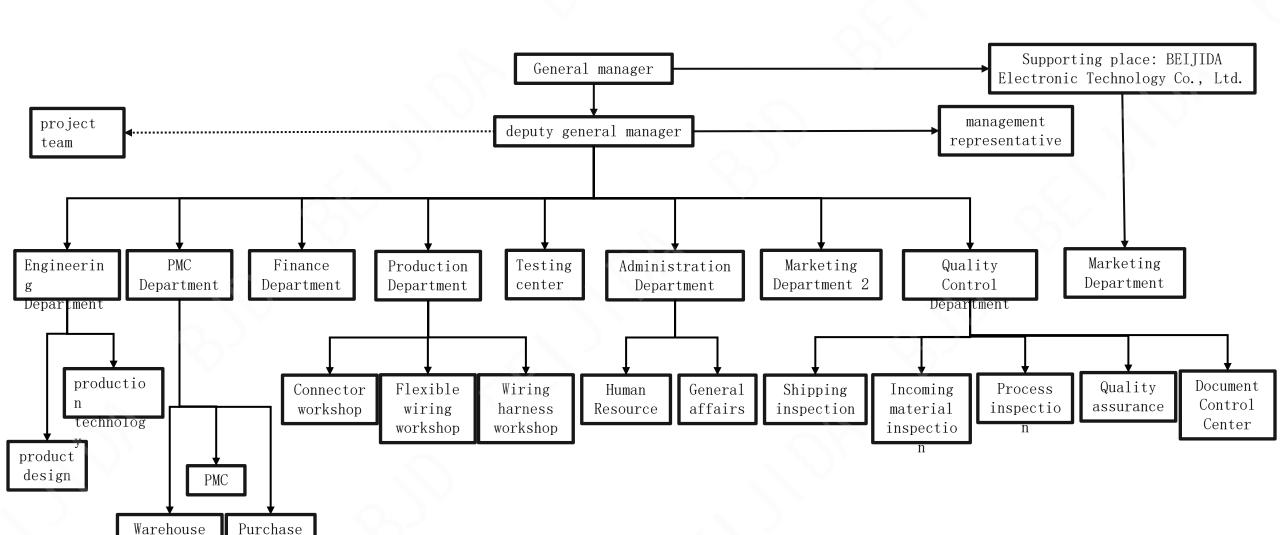
PRODUCT DEVELOPMENT ROADMAP



Product	Photo	Application	2023 Q4	2024 Q1	2024 Q2	2024 Q3	2024 Q4
0.5mm Pitch Auto-lock FPC Connector		LiDAR Radar ECU for view camera Driver monitoring system		and the second		闾	AV
				Right-angle TYPE		Straight TYPE	· · · · ·
0.4mm Pitch/80~120P FPC Connector	11	LiDARRadarECU for view cameraDriver monitoring system				•	
0.4mm Pitch, 8Gbps Floating BTB Connector		Milimeter-wav radar Lidar/3D Lidar Smart Rearview Mirror Driver monitoring system View camera				• 05	
0.5mm Pitch, 240P, 16Gbps Floating BTB Connector		Milimeter-wave radar Lidar/3D Lidar Electronic Control Unit(ECU) Car Informatic Device(CID) In-Vehicle infotainment(IVI) Smart Rearview Mirror					
Insert-molding Product & Customized Product		Automotive LiDAR System			\(\frac{1}{2}\)		,
FTB New Energy(Connector	No.	Automobile BMS Automotive Lighting				→	
Mini Fakra (4 in 1)		LiDAR Radar ECU for view camera Driver monitoring system				•	
H-MTD Ethernet Connector		LiDAR Radar ECU for view camera Driver monitoring system					

Appendix: Company organizational structure







Appendix: QC Department Structure

