

# CONNECTORS

MOBILE AND WEARABLE APPLICATIONS



## PRODUCT INTRODUCTION

**KYOCERA AVX Fine Pitch Connectors** offers compact signal and power connectors for today's consumer electronic product design needs. Designed for high-speed data and power transmission, Kyocera offers fine pitch Board to Board, FPC/FFC and Wire to Board connectors. These features connectors are ideal to meet the changing needs in products such as Smartphones, Tablet PCs, Smart Watches, TWS Earbuds, Fitness Trackers, Smart Glasses, Virtual Reality / Augmented Reality equipment, Smart Home equipment, and many other mobile and wearable devices applications.

### Top Selling Points / Features

- Fine Pitch, Space-saving and Lower profile design
- High reliability (robustness, wider offset mating, secure-locking, high retention force) design
- High-speed transmission and impedance matching design
- Add value design, such as High-current & Hybrid Power-line, Hybrid Full-armored, One-action locking

#### "Space-saving"



[Click for more detail](#)

**Board to Board**  
Pitch: 0.35~0.4mm  
Height: 0.6~1.5mm

#### "Hybrid Power-line"



[Click for more detail](#)

**Board to Board**  
Pitch: 0.35mm  
Height: 0.6~0.8mm

#### "Add Value"



[Click for more detail](#)

**Wire to Board**  
Pitch: 0.9/1.0mm  
Height: 0.9/1.4mm

#### "Lower Profile"



[Click for more detail](#)

**FPC (ZIF)**  
Pitch: 0.2~0.3mm  
Height: 0.85~0.95mm

#### "Secure-locking"



[Click for more detail](#)

**FPC (ZIF)**  
Pitch: 0.2~0.5mm  
Height: 0.85~0.95mm

#### "One-action"



[Click for more detail](#)

**FPC/FFC (ST/RA)**  
Pitch: 0.5mm  
Height: 2.6/5.32mm

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## APPLICATIONS: SMARTPHONES

### Speaker, Mic., Sensor

#### FPC/FFC Connectors

Height: 0.85~0.95mm

- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.5mm Pitch  
**6277** Low pin count, Back-lock  
**6298** Low pin count, Back-lock

#### Board to Board Connectors

Stacking Height: 0.6~0.9mm

- 0.35mm Pitch  
**5861** Power 5A, Lower-profile  
**5863** Power 5A  
**5897** Power 3A, High pin count  
**5843** Stacking height variations
- 0.4mm Pitch  
**5806** Space-saving  
**5804** Stacking height variations

### Display (OLED, LCD)

#### FPC/FFC Connectors

Height: 0.85~0.95mm

- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock

#### Board to Board Connectors

Stacking Height: 0.6~0.9mm

- 0.35mm Pitch  
**5861** Power 5A, Lower-profile  
**5863** Power 5A  
**5897** Power 3A, High pin count  
**5843** Stacking height variations
- 0.4mm Pitch  
**5806** Space-saving  
**5804** Stacking height variations

### Camera

#### Board to Board Connectors

Stacking Height: 0.6~0.9mm

- 0.35mm Pitch  
**5861** Power 5A, Lower-profile  
**5863** Power 5A  
**5897** Power 3A, High pin count  
**5843** Stacking height variations
- 0.4mm Pitch  
**5806** Space-saving  
**5804** Stacking height variations

### Main – Sub., I/O PCB

#### FPC/FFC Connectors

Height: 0.85~0.95mm

- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.5mm Pitch  
**6277** Low pin count, Back-lock  
**6298** Low pin count, Back-lock

#### Board to Board Connectors

Stacking Height: 0.6~0.9mm

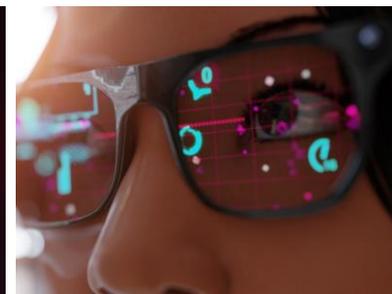
- 0.35mm Pitch  
**5861** Power 5A, Lower-profile  
**5863** Power 5A  
**5897** Power 3A, High pin count  
**5843** Stacking height variations
- 0.4mm Pitch  
**5806** Space-saving  
**5804** Stacking height variations

### Battery, Wireless Charge

#### Board to Board Connectors

Stacking Height: 0.6~0.7mm

- 0.35mm Pitch  
**7129** Power 10A





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## APPLICATIONS: SMART WATCHES

### Main – Sub. PCB

#### FPC/FFC Connectors

Height: 0.85~0.95mm



- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.5mm Pitch  
**6277** Low pin count, Back-lock  
**6298** Low pin count, Back-lock

#### Board to Board Connectors

Stacking Height: 0.6mm



- 0.35mm Pitch  
**5861** Power 5A, Lower-profile
- 0.4mm Pitch  
**5806** Space-saving

### Display (OLED, LCD)

#### FPC/FFC Connectors

Height: 0.85~0.95mm



- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.5mm Pitch  
**6277** Low pin count, Back-lock  
**6298** Low pin count, Back-lock

#### Board to Board Connectors

Stacking Height: 0.6mm



- 0.35mm Pitch  
**5861** Power 5A, Lower-profile
- 0.4mm Pitch  
**5806** Space-saving



### Speaker, Mic., Sensor

#### FPC/FFC Connectors

Height: 0.85~0.95mm



- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.5mm Pitch  
**6277** Low pin count, Back-lock  
**6298** Low pin count, Back-lock

#### Board to Board Connectors

Stacking Height: 0.6mm



- 0.35mm Pitch  
**5861** Power 5A, Lower-profile
- 0.4mm Pitch  
**5806** Space-saving

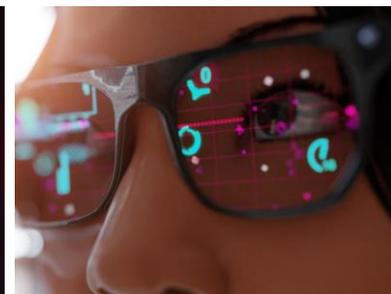
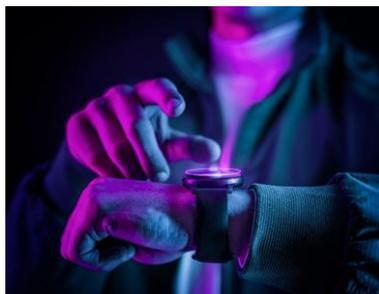
### Battery, Wireless Charge

#### Board to Board Connectors

Stacking Height: 0.6~0.7mm



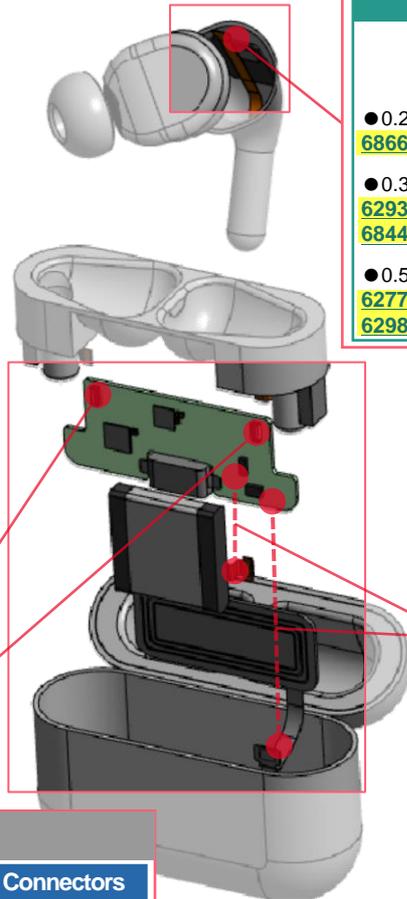
- 0.35mm Pitch  
**7129** Power 10A





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APPLICATIONS: TWS



## Main – Sub. PCB

### FPC/FFC Connectors

Height: 0.85~0.95mm



- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.5mm Pitch  
**6277** Low pin count, Back-lock  
**6298** Low pin count, Back-lock

### Board to Board Connectors

Stacking Height: 0.6mm



- 0.35mm Pitch  
**5861** Power 5A, Lower-profile
- 0.4mm Pitch  
**5806** Space-saving

## Battery, Wireless Charge

### Board to Board Connectors

Stacking Height: 0.6~0.7mm



- 0.35mm Pitch  
**7129** Power 10A

## Main – Sub. PCB

### FPC/FFC Connectors

Height: 0.85~0.95mm



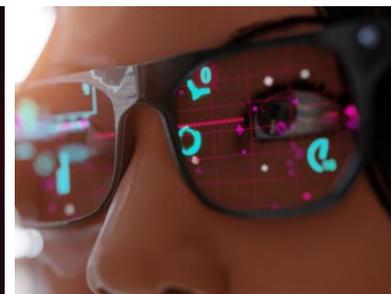
- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.5mm Pitch  
**6277** Low pin count, Back-lock  
**6298** Low pin count, Back-lock

### Board to Board Connectors

Stacking Height: 0.6mm



- 0.35mm Pitch  
**5861** Power 5A, Lower-profile
- 0.4mm Pitch  
**5806** Space-saving





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## APPLICATIONS: VIRTUAL REALITY (VR)

## Battery

## FPC/FFC Connectors

Height: 1.5mm



- 0.5mm Pitch
- 6808** Power 4A, Back-lock

## Board to Board Connectors

Stacking Height: 0.6~0.7mm



- 0.35mm Pitch
- 7129** Power 10A

## Speaker, Mic.

## FPC/FFC Connectors

Height: 0.85~0.95mm



- 0.2mm Pitch
- 6866** Space-saving, Front-lock
- 0.3mm Pitch
- 6293** Lower-profile, Back-lock
- 6844** Space-saving, Front-lock
- 0.5mm Pitch
- 6277** Low pin count, Back-lock
- 6298** Low pin count, Back-lock

## Board to Board Connectors

Stacking Height: 0.6~2.0mm

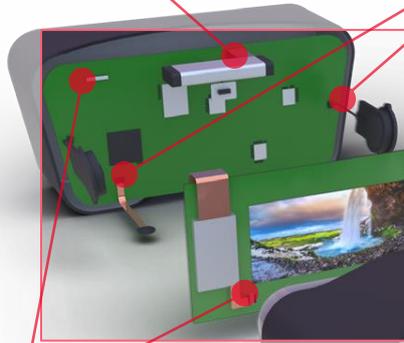


- 0.35mm Pitch
- 5861** Power 5A, Lower-profile
- 5863** Power 5A
- 5897** Power 3A, High pin count
- 5843** Stacking height variations
- 0.4mm Pitch
- 5806** Space-saving
- 5804** Stacking height variations

## Wire to Board Connectors Height: 0.9~3.61mm



- 8041** 0.9mm Pitch
- 8040** 1.0mm Pitch
- 8005** 1.27mm Pitch



## Main PCB, Display

## FPC/FFC Connectors

Height: 0.85~5.45mm



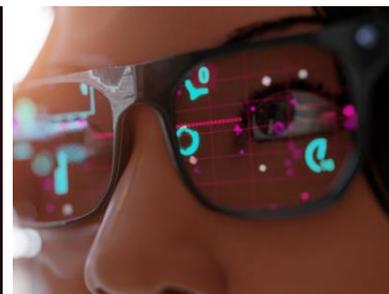
- 0.2mm Pitch
- 6866** Space-saving, Front-lock
- 0.3mm Pitch
- 6293** Lower-profile, Back-lock
- 6844** Space-saving, Front-lock
- 0.5mm Pitch
- 6277** Low pin count, Back-lock
- 6298** Low pin count, Back-lock
- 6809** Ease of use, Robust, Front-lock
- 6811** Robust, Front-lock
- 6817** One-Action
- 6244** Vertical, Non-ZIF
- 6251** Vertical, Flip-lock

## Board to Board Connectors

Stacking Height: 0.6~2.0mm



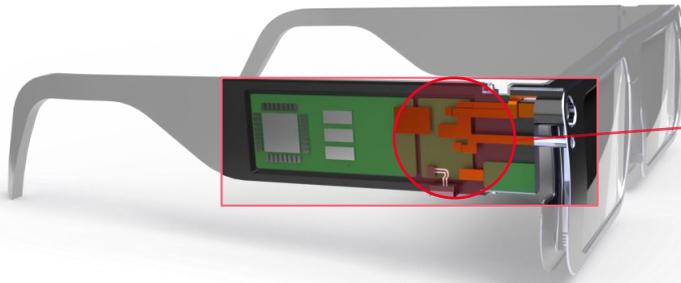
- 0.35mm Pitch
- 5861** Power 5A, Lower-profile
- 5863** Power 5A
- 5897** Power 3A, High pin count
- 5843** Stacking height variations
- 0.4mm Pitch
- 5806** Space-saving
- 5804** Stacking height variations





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APPLICATIONS: AUGMENTED REALITY (AR)



## Camera, Speaker, Mic., Sensor

## FPC/FFC Connectors

Height: 0.85~0.95mm

- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.5mm Pitch  
**6277** Low pin count, Back-lock  
**6298** Low pin count, Back-lock

## Board to Board Connectors

Stacking Height: 0.6~1.5mm

- 0.35mm Pitch  
**5861** Power 5A, Lower-profile  
**5863** Power 5A  
**5897** Power 3A, High pin count  
**5843** Stacking height variations

## Wire to Board Connectors Height: 0.9~1.4mm

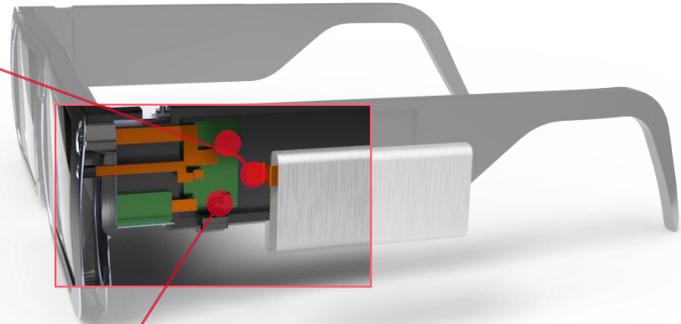
- 8041** 0.9mm Pitch
- 8040** 1.0mm Pitch

## Battery

## Board to Board Connectors

Stacking Height: 0.6~0.7mm

- 0.35mm Pitch  
**7129** Power 10A



## Display

## FPC/FFC Connectors

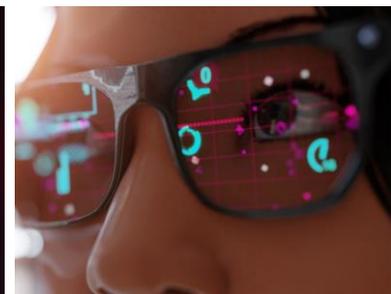
Height: 0.85~0.95mm

- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock

## Board to Board Connectors

Stacking Height: 0.6~1.5mm

- 0.35mm Pitch  
**5861** Power 5A, Lower-profile  
**5863** Power 5A  
**5897** Power 3A, High pin count  
**5843** Stacking height variations





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PRODUCTS

APPLICATIONS: LAPTOP

### Display

**FPC/FFC Connectors**  
Height: 0.85~1.5mm



- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.4mm Pitch  
**6287** Ease of use, Front-lock
- 0.5mm Pitch  
**6809** Ease of use, Robust, Front-lock  
**6811** Robust, Front-lock  
**6284** Non-ZIF  
**6817** One-Action

**Board to Board Connectors**  
Stacking Height: 0.6~2.0mm



- 0.35mm Pitch  
**5861** Power 5A, Lower-profile  
**5863** Power 5A  
**5897** Power 3A, High pin count  
**5843** Stacking height variations
- 0.4mm Pitch  
**5804** Stacking height variations

### Camera

**Board to Board Connectors**  
Stacking Height: 0.6~0.9mm



- 0.35mm Pitch  
**5861** Power 5A, Lower-profile  
**5863** Power 5A  
**5897** Power 3A, High pin count  
**5843** Stacking height variations
- 0.4mm Pitch  
**5804** Stacking height variations

**Board to Board Connectors**  
Stacking Height: 0.6~0.7mm



- 0.35mm Pitch  
**7129** Power 10A

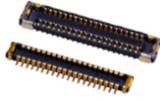
### Main – Sub. PCB

**FPC/FFC Connectors**  
Height: 0.85~2.6mm



- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.4mm Pitch  
**6287** Ease of use, Front-lock
- 0.5mm Pitch  
**6277** Low pin count, Back-lock  
**6298** Low pin count, Back-lock  
**6809** Ease of use, Robust, Front-lock  
**6811** Robust, Front-lock  
**6284** Non-ZIF  
**6817** One-Action

**Board to Board Connectors**  
Stacking Height: 0.6~2.0mm



- 0.35mm Pitch  
**5861** Power 5A, Lower-profile  
**5863** Power 5A  
**5897** Power 3A, High pin count  
**5843** Stacking height variations
- 0.4mm Pitch  
**5804** Stacking height variations

### Touch Panel, Touch Pad

**FPC/FFC Connectors**  
Height: 0.85~2.6mm



- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.4mm Pitch  
**6287** Ease of use, Front-lock
- 0.5mm Pitch  
**6277** Low pin count, Back-lock  
**6298** Low pin count, Back-lock  
**6809** Ease of use, Robust, Front-lock  
**6811** Robust, Front-lock  
**6284** Non-ZIF  
**6817** One-Action

### Speaker

**FPC/FFC Connectors**  
Height: 0.93~2.6mm



- 0.5mm Pitch  
**6809** Ease of use, Robust, Front-lock  
**6811** Robust, Front-lock  
**6817** One-Action

**Board to Board Connectors**  
Stacking Height: 0.6~0.7mm

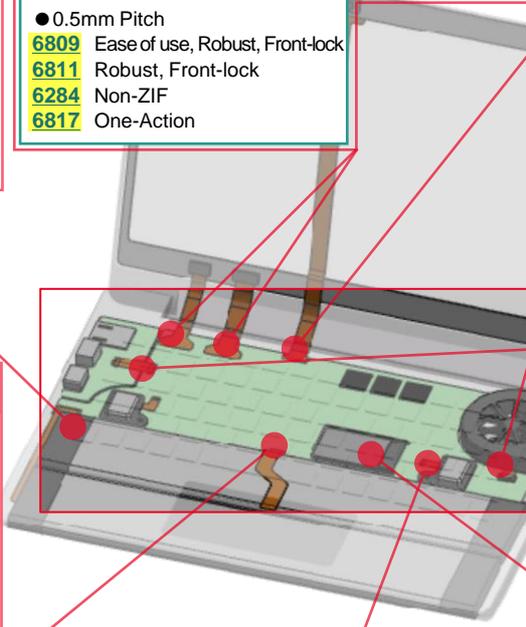


- 0.35mm Pitch  
**7129** Power 10A

**Card Edge Connectors**



- PCIe M.2  
**6411** Right angle, M1.8/H2.3/H3.2





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APPLICATIONS: VIDEO GAME CONSOLE

## Sub. PCB (Disk Drive)

## FPC/FFC Connectors

Height: 0.85~2.2mm



- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.4mm Pitch  
**6824** Space-saving, Non-ZIF
- 0.5mm Pitch  
**6809** Ease of use, Robust, Front-lock  
**6811** Robust, Front-lock  
**6284** Non-ZIF  
**6806** Ease of use, Front-lock  
**6892** AOI-compatible, Front-lock

## Shield Case

## Shield Locks

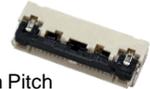
Height: 1.8, 3.0mm

**8069** Better work efficiency

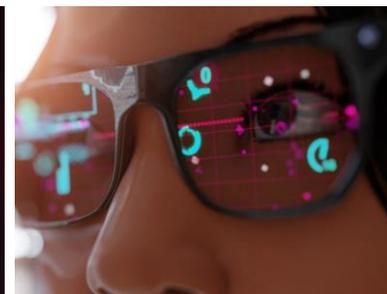
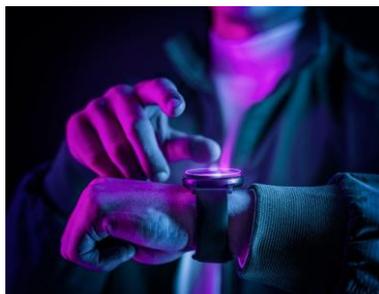
## Main – Sub. PCB (I/O)

## FPC/FFC Connectors

Height: 0.85~5.32mm



- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.4mm Pitch  
**6824** Space-saving, Non-ZIF
- 0.5mm Pitch  
**6809** Ease of use, Robust, Front-lock  
**6811** Robust, Front-lock  
**6284** Non-ZIF  
**6806** Ease of use, Front-lock  
**6892** AOI-compatible, Front-lock  
**6817** One-Action





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APPLICATIONS: GAME CONTROLLER

### Control Button, Stick

#### FPC/FFC Connectors

Height: 0.85~5.32mm

- 0.5mm Pitch
- 6809** Ease of use, Robust, Front-lock
- 6811** Robust, Front-lock
- 6284** Non-ZIF
- 6806** Ease of use, Front-lock
- 6892** AOI-compatible, Front-lock
- 6244** Vertical, Non-ZIF

### Battery

#### Board to Board Connectors

Stacking Height: 0.6~0.7mm

- 0.35mm Pitch
- 7129** Power 10A

### Main – Sub. PCB (I/O)

#### FPC/FFC Connectors

Height: 0.85~5.32mm

- 0.3mm Pitch
- 6293** Lower-profile, Back-lock
- 6844** Space-saving, Front-lock
- 0.4mm Pitch
- 6824** Space-saving, Non-ZIF
- 0.5mm Pitch
- 6809** Ease of use, Robust, Front-lock
- 6811** Robust, Front-lock
- 6284** Non-ZIF
- 6806** Ease of use, Front-lock
- 6892** AOI-compatible, Front-lock
- 6244** Vertical, Non-ZIF

### Speaker, Mic., Sensor

#### FPC/FFC Connectors

Height: 0.85~1.75mm

- 0.3mm Pitch
- 6293** Lower-profile, Back-lock
- 6844** Space-saving, Front-lock
- 0.4mm Pitch
- 6824** Space-saving, Non-ZIF
- 0.5mm Pitch
- 6277** Low pin count, Back-lock
- 6298** Low pin count, Back-lock
- 6809** Ease of use, Robust, Front-lock
- 6811** Robust, Front-lock
- 6284** Non-ZIF
- 6806** Ease of use, Front-lock

#### Board to Board Connectors

Stacking Height: 0.6~2.0mm

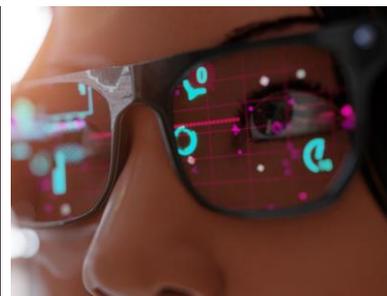
- 0.35mm Pitch
- 7129** Power 10A
- 5861** Power 5A, Lower-profile
- 5843** Stacking height variations
- 0.4mm Pitch
- 5804** Stacking height variations

### Vibrator

#### Wire to Board Connectors

Height: 0.9~3.61mm

- 8041** 0.9mm Pitch
- 8040** 1.0mm Pitch
- 8005** 1.27mm Pitch





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## APPLICATIONS: HANDHELD GAME CONSOLE

### Button, Speaker, Mic., Sensor

#### FPC/FFC Connectors

Height: 0.85~2.2mm



- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.4mm Pitch  
**6824** Space-saving, Non-ZIF
- 0.5mm Pitch  
**6277** Low pin count, Back-lock  
**6298** Low pin count, Back-lock  
**6809** Ease of use, Robust, Front-lock  
**6811** Robust, Front-lock  
**6284** Non-ZIF  
**6806** Ease of use, Front-lock  
**6892** AOI-compatible, Front-lock

#### Board to Board Connectors

Stacking Height: 0.6~2.0mm



- 0.35mm Pitch  
**7129** Power 10A  
**5861** Power 5A, Lower-profile  
**5843** Stacking height variations
- 0.4mm Pitch  
**5804** Stacking height variations

### Main – Sub. PCB, Display

#### FPC/FFC Connectors

Height: 0.85~2.2mm



- 0.2mm Pitch  
**6866** Space-saving, Front-lock
- 0.3mm Pitch  
**6293** Lower-profile, Back-lock  
**6844** Space-saving, Front-lock
- 0.5mm Pitch  
**6809** Ease of use, Robust, Front-lock  
**6811** Robust, Front-lock  
**6284** Non-ZIF  
**6806** Ease of use, Front-lock  
**6892** AOI-compatible, Front-lock

#### Board to Board Connectors

Stacking Height: 0.6~2.0mm



- 0.35mm Pitch  
**5861** Power 5A, Lower-profile  
**5863** Power 5A  
**5897** Power 3A, High pin count  
**5843** Stacking height variations
- 0.4mm Pitch  
**5804** Stacking height variations

### Battery

#### Board to Board Connectors

Stacking Height: 0.6~0.7mm



- 0.35mm Pitch  
**7129** Power 10A

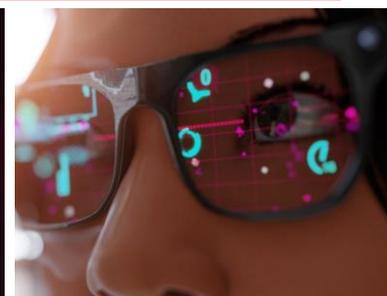
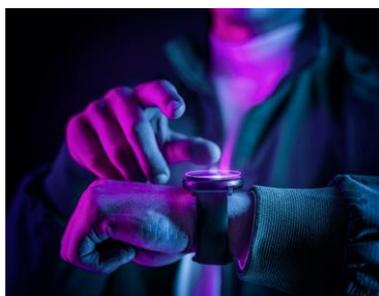
### Vibrator

#### Wire to Board Connectors

Height: 0.9~3.61mm



- 8041** 0.9mm Pitch
- 8040** 1.0mm Pitch
- 8005** 1.27mm Pitch



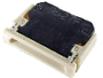


## PRODUCT SPECIFICATIONS:

### Board to Board Connectors

Series	<a href="#">7129</a>	<a href="#">5861</a>	<a href="#">5863</a>	<a href="#">5897</a>	<a href="#">5843</a>	<a href="#">5806</a>	<a href="#">5804</a>	<a href="#">5846</a>
Image								
Pitch (mm)	0.35	0.35	0.35	0.35	0.35	0.40	0.40	0.40
Stack.H (mm)	0.70	0.60	0.80	0.80	0.8 / 1.0	0.60	0.9 / 1.5 / 2.0	3.00
Width (mm)	2.20	1.95	2.30	2.30	2.40	1.90	2.40	5.80
No. of Pos.	Signal: 2, 4 Power: 4	6 to 60	50 / 60	78	12 to 48	10 to 30	10 to 70	20 to 80
Current (Power)	6.0/10.0A (2 power-pin)	5.0A	5.0A	3.0A	0.3A (Signal)	0.3A (Signal)	0.3A (Signal)	0.4A (Signal)

### FPC/FFC Connectors

Series	<a href="#">6866</a>	<a href="#">6844</a>	<a href="#">6293</a>	<a href="#">6298</a>	<a href="#">6809</a>	<a href="#">6811</a>	<a href="#">6808</a>
Image	 Front-flip	 Front-flip	 Back-flip	 Back-flip	 Front-flip	 Front-flip	 Back-flip
Pitch (mm)	0.20	0.30	0.30	0.50	0.50	0.50	0.50
Height (mm)	0.95	0.95	0.85	0.90	0.93	1.28	1.50
Width (mm)	2.70	2.70	3.70	3.70	3.75	4.79	5.30
No. of Pos.	21 to 71	11 to 61	9 to 61	3 to 9	4 to 40	4 to 32	7
Current	0.2A	0.2A	0.2A	0.4A	0.5A	0.5A	0.5A or 4A/3 contacts

### Wire to Board Connectors

### Shield Locks

### Card Edge Connectors

Series	<a href="#">8041</a>	<a href="#">8040</a>	<a href="#">8005</a>	Series	<a href="#">8069</a>	Series	<a href="#">6411</a>
Image	 AWG#32	 AWG#32	 AWG#30, #32	Image		Image	
Pitch (mm)	0.90	1.00	1.27	Pitch (mm)	-	Pitch (mm)	0.5
Height (mm)	0.90	1.40	3.61(VT)1.9(RA)	Height (mm)	1.8 / 3.0	Height (mm)	1.8 / 3.2
Width (mm)	2.00	2.15	2.14(VT)4.71(RA)	Width (mm)	2.0 / 2.2	Width (mm)	9.3 / 8.7
No. of Pos.	2	2	2	No. of Pos.	-	No. of Pos.	67
Current	1.0A	1.0A	1.0A	Current	0.5A	Current	0.4A

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