

CONNECTORS

MEDICAL APPLICATIONS



PRODUCT INTRODUCTION

KYOCERA AVX Fine Pitch Connectors offers compact signal and power connectors for today's medical 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 Wearable, Fitness Trackers, Hearing Aids, Patient Monitoring, Imaging Devices and many other medical devices applications.

Top Selling Points / Features

- Fine Pitch, Space-saving and Stacking Height variation design
- High reliability (XY floating, wider offset mating, secure-locking, robustness) design
- High-speed transmission and impedance matching design
- Add value design, such as High-current & Hybrid Power-line, One-action locking

"Space-saving"



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

"Hybrid Power-line"



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

"High Reliability"



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Board to Board
Pitch: 0.4~0.5mm
Parallel / Vertical

"Hight Variation"



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Board to Board
Pitch: 0.4~0.5mm
Parallel

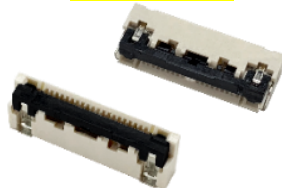
"Secure-locking"



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

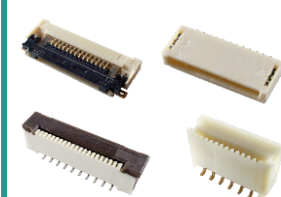
"One-action"



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FPC / FFC
Pitch: 0.5mm
Right-angle / Vertical

"ZIF/LIF Variation"



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FPC / FFC
Pitch: 0.4~1.0mm
Right-angle / Vertical

"Add Value"



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

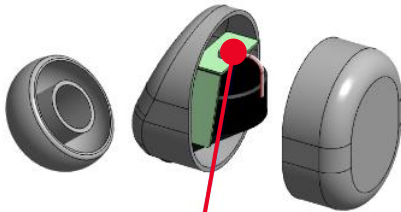
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APPLICATIONS: HEARING AID

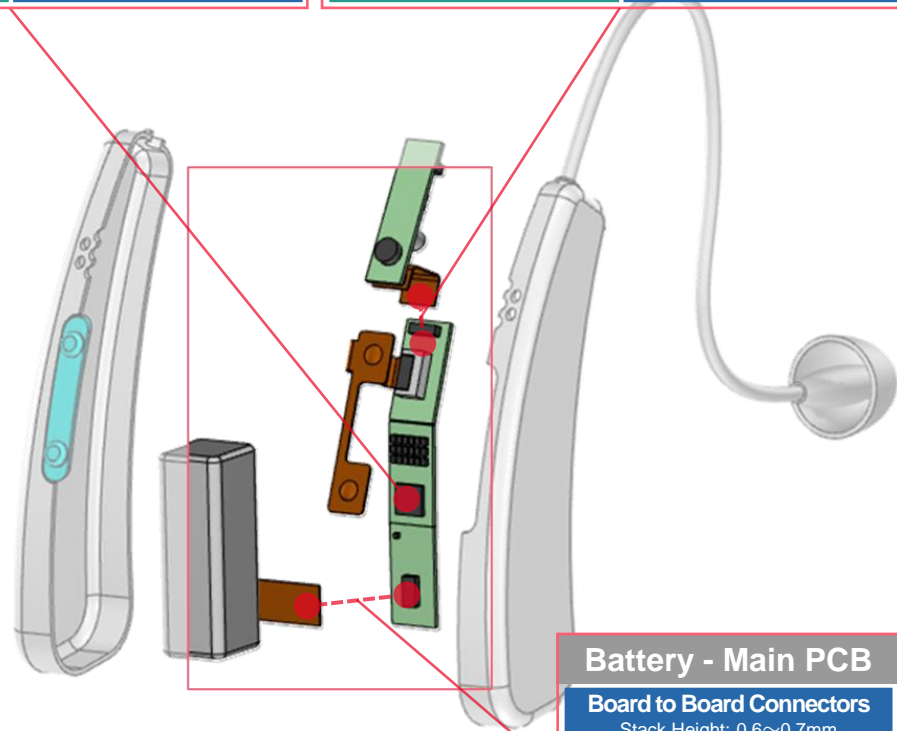
Amplifier - Main PCB		Amplifier - Main PCB	
FPC/FFC Connectors Height: 0.85~0.95mm	Board to Board Connectors Stack Height: 0.6~2.0mm	FPC/FFC Connectors Height: 0.85~0.95mm	Board to Board Connectors Stack Height: 0.6~2.0mm
<ul style="list-style-type: none"> ● 0.2mm Pitch 6866 Space-saving, Front-lock ● 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 	<ul style="list-style-type: none"> ● 0.35mm Pitch 5861 Power 5A, Lower-profile 5843 Space-saving ● 0.4mm Pitch 5804 Stacking height variations 	<ul style="list-style-type: none"> ● 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 	<ul style="list-style-type: none"> ● 0.35mm Pitch 5861 Power 5A, Lower-profile 5843 Space-saving ● 0.4mm Pitch 5804 Stacking height variations

Wireless type



Battery - Main PCB

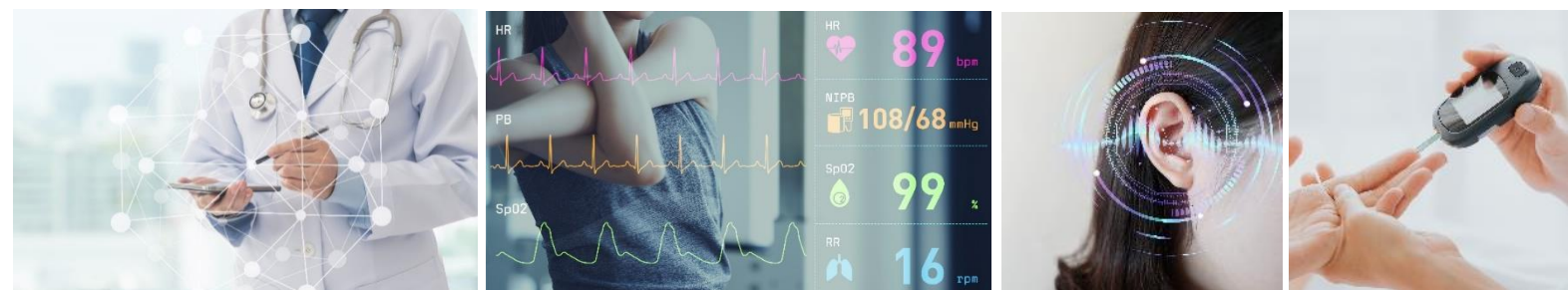
Wire to Board Connectors Stack Height: 0.9~1.9mm	Board to Board Connectors Stack Height: 0.6~0.7mm
<ul style="list-style-type: none"> ● 0.9mm Pitch 8041 Space-saving ● 1.0mm Pitch 8040 Space-saving ● 1.0mm Pitch 8005 VT/RA type 	<ul style="list-style-type: none"> ● 0.35mm Pitch 7129 Power 10A 5861 Power 5A, Lower-profile



Wired type

Battery - Main PCB

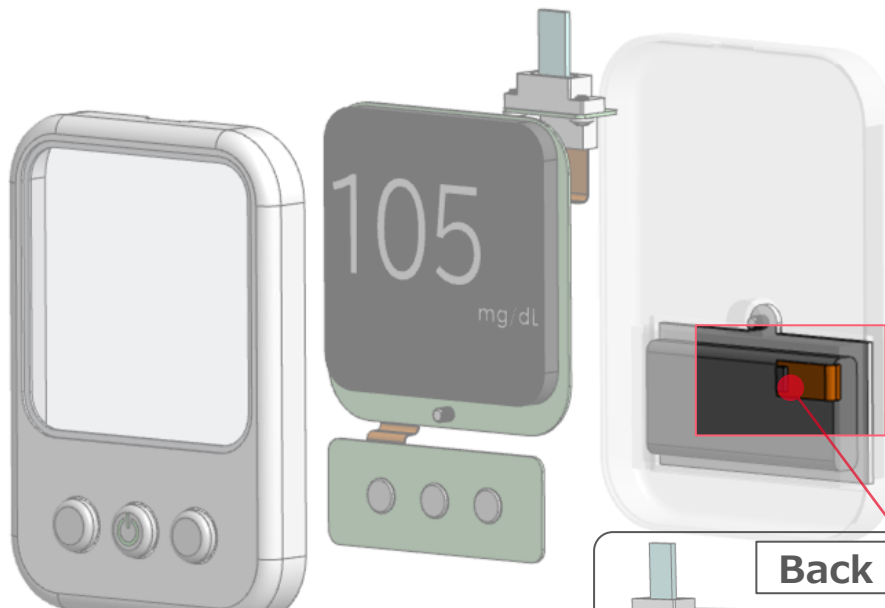
Board to Board Connectors Stack Height: 0.6~0.7mm
<ul style="list-style-type: none"> ● 0.35mm Pitch 7129 Power 10A 5861 Power 5A, Lower-profile





SCAN FOR ALL PRODUCTS

APPLICATIONS: GLUCOSE METER



Sensor chip - Main 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
6809 Ease of use, Robust, Front-lock

Board to Board Connectors

Stack Height: 0.6~2.0mm

- 0.35mm Pitch
5861 Power 5A, Lower-profile
5843 Space-saving
- 0.4mm Pitch
5804 Stacking height variations

Battery - Main PCB

Board to Board Connectors

Stack Height: 0.6~0.7mm

- 0.35mm Pitch
7129 Power 10A
5861 Power 5A, Lower-profile

Back

Button - Main 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
6809 Ease of use, Robust, Front-lock

Board to Board Connectors

Stack Height: 0.6~2.0mm

- 0.35mm Pitch
5861 Power 5A, Lower-profile
5843 Space-saving
- 0.4mm Pitch
5804 Stacking height variations





CONNECTORS

MEDICAL APPLICATIONS



APPLICATIONS: MONITORING DEVICES

ENDOSCOPES



PATIENT MONITORING



ULTRASONOGRAPHS



Display – Main Board

FPC / FFC Connectors Right-angle / Vertical



- 0.3mm Pitch
 - 6293** Lower-profile, Back-lock
 - 6844** Space-saving, Front-lock
 - 6841** Space-saving, Vertical
- 0.5mm Pitch
 - 6298** Low pin count, Back-lock
 - 6809** Ease of use, Robust, Front-lock
 - 6288** Secure-lock, Front-lock
 - 6251** Secure-lock, Vertical
 - 6817** One-Action, RA / VT
 - 6244** Vertical, LIF (Non-ZIF)

Board to Board Connectors Parallel



- 0.35mm Pitch
 - 5861** Power 5A, Lower-profile
 - 5897** Power 3A Large pin count
 - 5843** Stacking height variations
- 0.4mm Pitch
 - 5804** Stacking height variations
 - 5846** Stacking height 3.0mm
- 0.5mm Pitch
 - 5046** Stacking height variations
 - 5047** Stacking height variations

Main Board – Sub board

FPC / FFC Connectors Right-angle / Vertical

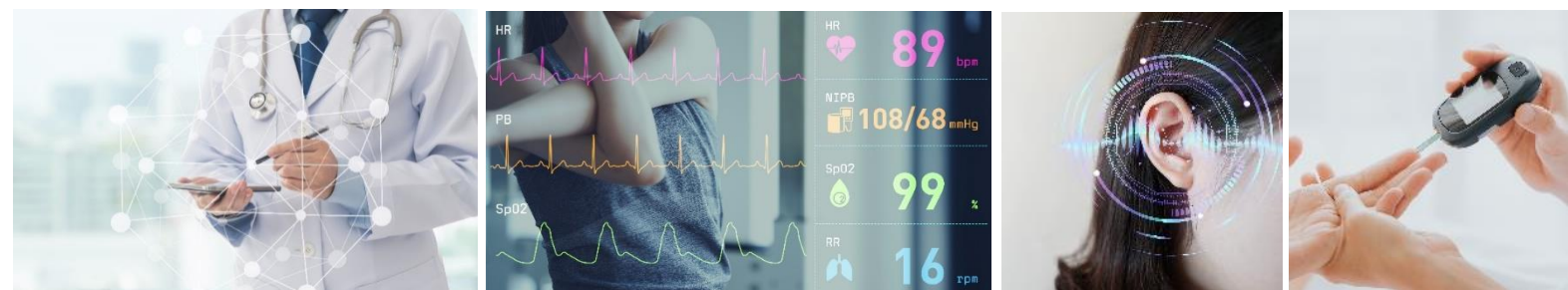


- 0.5mm Pitch
 - 6298** Low pin count, Back-lock
 - 6809** Ease of use, Robust, Front-lock
 - 6288** Secure-lock, Front-lock
 - 6251** Secure-lock, Vertical
 - 6817** One-Action, RA / VT
 - 6244** Vertical, LIF (Non-ZIF)

Board to Board Connectors Parallel





- 0.4mm Pitch
 - 5804** Stacking height variations
 - 5846** Stacking height 3.0mm
- 0.5mm Pitch
 - 5046** Stacking height variations
 - 5047** Stacking height variations
 - 5655** Lower-profile
 - 5652** High-speed transmission





PRODUCT SPECIFICATIONS:


Board to Board Connectors

Series	7129	5861	5897	5843	5804	5846	5046 / 5047	5655	5656
Image									
Pitch (mm)	0.35	0.35	0.35	0.35	0.40	0.40	0.50	0.50	0.50
Stack H (mm)	0.70	0.60	0.80	0.8 / 1.0	0.9 / 1.5 / 2.0	3.00	3.0 ~ 7.0	4.0/5.0/6.0/7.0	17.0 / 18.0
Width (mm)	2.20	1.95	2.30	2.40	2.40	5.80	5.80	9.0	9.0
No. of Pos.	Signal: 2, 4 Power: 4	6 to 60	78	12 to 48	10 to 70	20 to 80	20 to 120	40 to 60	40 to 60
Current (Power)	6.0/10.0A (2 power-pin)	5.0A	3.0A	0.3A (Signal)	0.3A (Signal)	0.4A (Signal)	0.4A (Signal)	0.5A (Signal)	0.5A (Signal)

FPC/FFC Connectors

Series	6866	6844	6293	6841	6298	6809	6288
Image							
Type	RA	RA	RA	VT	RA	RA	RA
Pitch (mm)	0.20	0.30	0.30	0.30	0.50	0.50	0.50
Height (mm)	0.95	0.95	0.85	3.60	0.90	0.93	2.00
Width (mm)	2.70	2.70	3.70	2.95	3.70	3.75	6.50
No. of Pos.	21 to 71	11 to 61	9 to 61	15 to 51	3 to 9	4 to 40	8 to 80
Current	0.2A	0.2A	0.2A	0.2A	0.4A	0.5A	0.5A

FPC/FFC Connectors

Series	6892	6810	6817
Image	 <small>V-by-One V25</small>		 <small>V-by-One V25</small>
Type	RA	RA/VT	RA/VT
Pitch (mm)	0.50	0.50	0.50
Height (mm)	2.20	RA: 4.04 ST: 6.00	RA: 2.60 ST: 5.32
Width (mm)	6.45	RA: 6.70 ST: 4.16	RA: 5.90 ST: 2.90
No. of Pos.	30 to 68	10 to 60	10 to 50
Current	0.5A	0.5A	0.5A

Wire to Board Connectors

Series	8041	8040	8005
Image	 AWG#32	 AWG#32	 AWG#30, #32
Type	RA	RA	RA/VT
Pitch (mm)	0.90	1.00	1.27
Stack H (mm)	0.90	1.40	3.61(VT)1.9(RA)
Width (mm)	2.00	2.15	2.14(VT) 4.71(RA)
No. of Pos.	2	2	2
Current	1.0A	1.0A	1.0A

* "V-by-One" is registered trademarks of Thine Electronics, Inc.

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