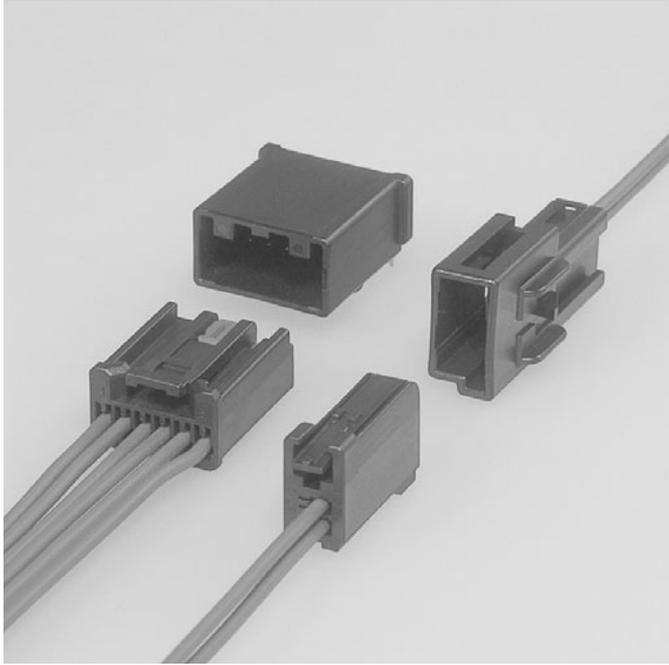


AIT-II CONNECTOR

Board-to-wire/Wire-to-wire



0.64 unsealed low-profile connector series for use in a wide range of automotive applications.

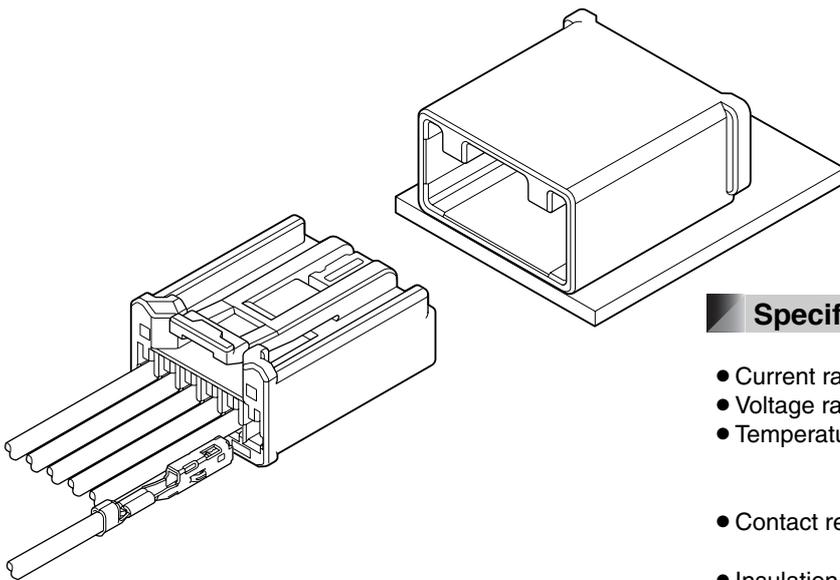
Features

● Ultra Low Profile Connector

Over 30% Height Reduction as compared to the Standard USCAR Footprints.

● Variations

There are multiple varieties of AIT-II Connectors which can satisfy your needs.

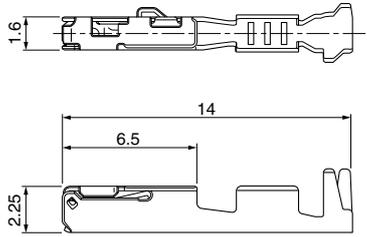


Specifications

- Current rating: 5A DC max.
- Voltage rating: 14V DC
- Temperature range: -40°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/15mΩ max.
After environmental testing/15mΩ max.
- Insulation resistance: 100MΩ min.
- Applicable wire: SAE/ AVSS/ CAVS/ FLRY
0.3mm² to 0.85mm²

- * Compliant with ELV/RoHS.
- * Contact JST for details.

Female terminal



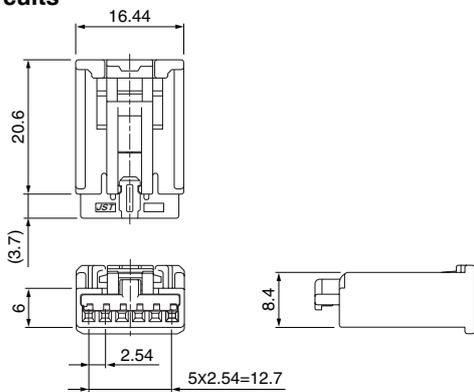
| Model No. | Applicable wire range | | Q'ty/reel |
|------------------|------------------------------|----------------------|-----------|
| | Conductor (mm ²) | Insulation O.D. (mm) | |
| ①SAIT-A03T-M064 | 0.3 to 0.5 | ≤1.9 | 6,500 |
| ①SAIT-A02T-M064 | 0.75 to 0.85 | ≤1.9 | 6,500 |
| ②SAIT-A03GF-M064 | 0.3 to 0.5 | ≤1.9 | 6,500 |
| ②SAIT-A02GF-M064 | 0.75 to 0.85 | ≤1.9 | 6,500 |

Material and Finish

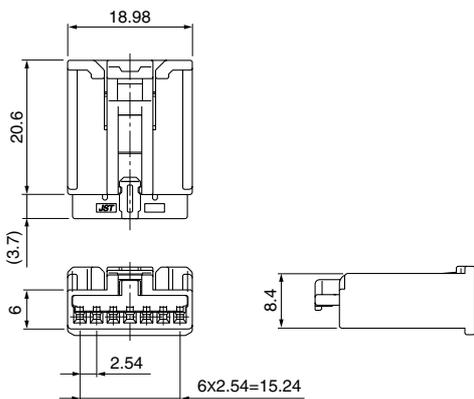
- ① Copper alloy, tin-plated (reflow treatment)
- ② Copper alloy, nickel-undercoated,
Contact area; gold-plated
Barrel area; tin-plated

Female connector (Single row)

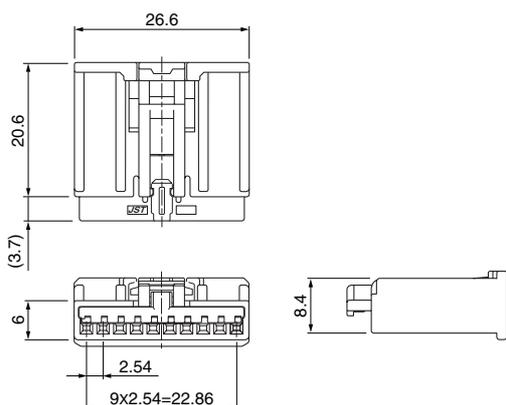
• 6 circuits



• 7 circuits



• 10 circuits



| Circuits | Model No. | Q'ty/box | Housing Color |
|----------|---------------|----------|-----------------|
| 6 | AIT2PB-06-1AK | 350 | Black |
| | AIT2PB-06-1BH | 350 | Gray |
| | AIT2PB-06-1FS | 350 | Natural (White) |
| 7 | AIT2PB-07-1BH | 300 | Gray |
| | AIT2PB-07-1FS | 300 | Natural (White) |
| 10 | AIT2PB-10-1AK | 200 | Black |
| | AIT2PB-10-1BH | 200 | Gray |
| | AIT2PB-10-1DM | 200 | Green |
| | AIT2PB-10-1FS | 200 | Natural (White) |
| | AIT2PB-10-1AD | 200 | Orange |

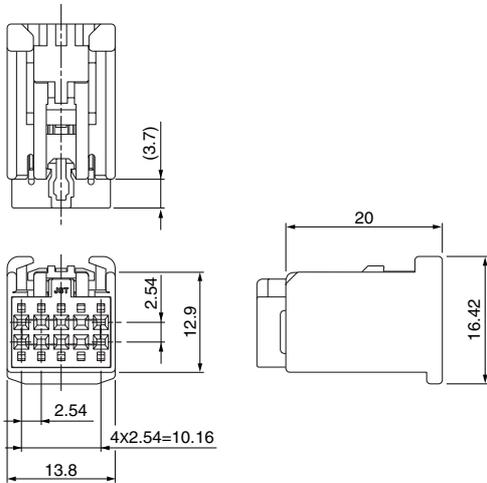
Material

Housing: Glass-filled PBT
TPA: Glass-filled PBT, red

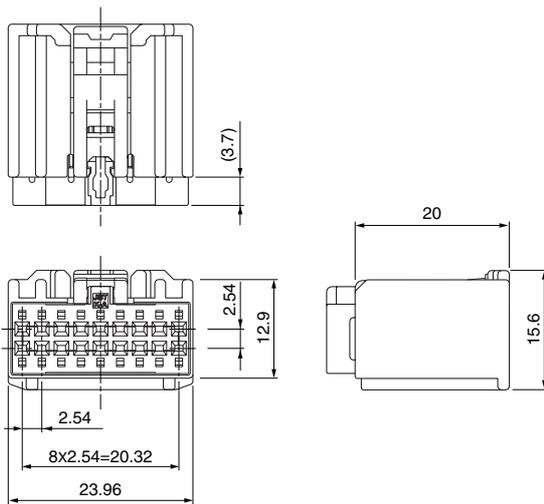
AIT-II CONNECTOR

Female connector (Dual row)

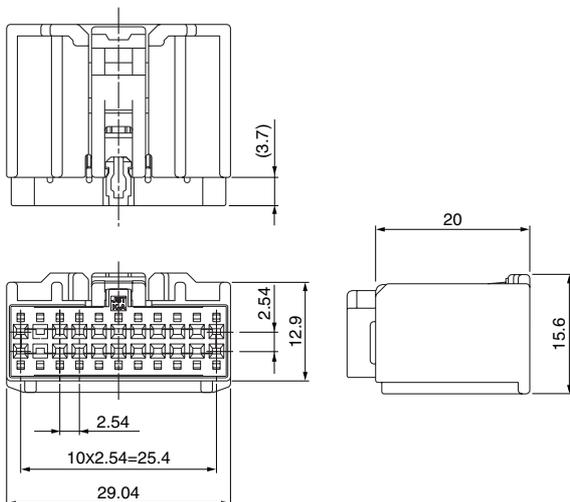
• 10 circuits



• 18 circuits



• 22 circuits



| Circuits | Model No. | Q'ty/box | Housing Color | TPA Color |
|----------|----------------|----------|-----------------|-----------------|
| 10 | AIT2PB-10P-2AK | 200 | Black | Natural (White) |
| | AIT2PB-10P-2BH | 200 | Gray | Natural (White) |
| 18 | AIT2PB-18-2AD | 120 | Orange | Black |
| | AIT2PB-18-2BD | 120 | Orange | Natural (White) |
| | AIT2PB-18-2AK | 120 | Black | Natural (White) |
| | AIT2PB-18-2BH | 120 | Gray | Natural (White) |
| | AIT2PB-18-2DM | 120 | Green | Natural (White) |
| | AIT2PB-18-2FS | 120 | Natural (White) | Black |
| 22 | AIT2PB-22-2AK | 100 | Black | Natural (White) |
| | AIT2PB-22-2BH | 100 | Gray | Natural (White) |
| | AIT2PB-22-2CN | 100 | Brown | Natural (White) |
| | AIT2PB-22-2FS | 100 | Natural (White) | Black |

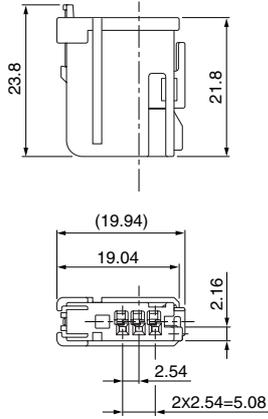
Material

Housing: Glass-filled PBT
TPA: Glass-filled PBT

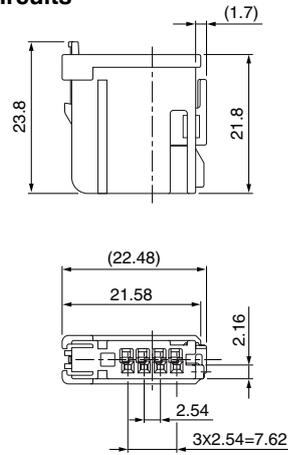
Female connector (Side Lock)

Side-Load TPA

● 3 circuits

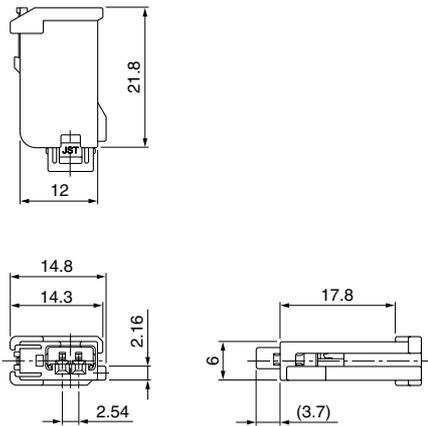


● 4 circuits

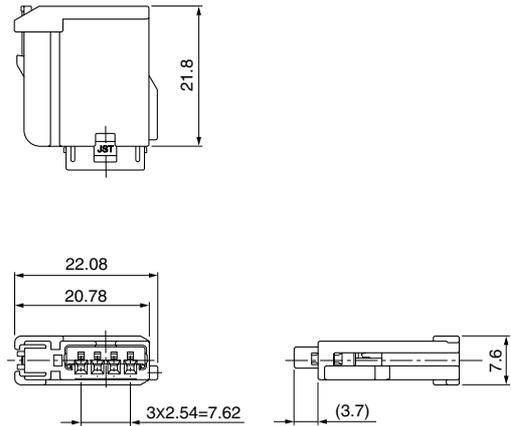


Front-Load TPA

● 2 circuits



● 4 circuits



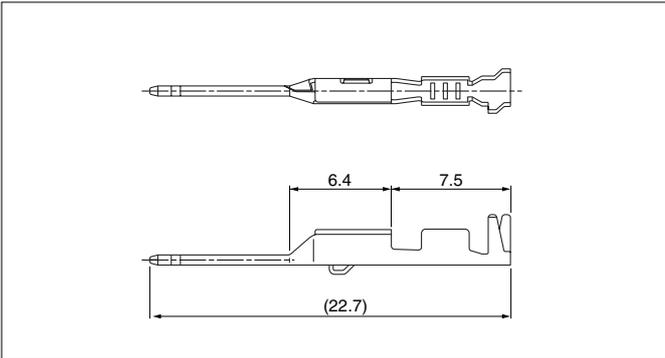
| Circuits | TPA Location | Model No. | Q'ty/box | Housing Color |
|----------|--------------|-----------------------|----------|-----------------|
| 2 | Front-Load | AIT2PB-02G-1AK | 400 | Black |
| | | AIT2PB-02A-1FS | 400 | Natural (White) |
| 3 | Side-Load | AIT2PB-03B-1AK | 400 | Black |
| 4 | Front-Load | AIT2PB-04G-1AK | 400 | Black |
| | Side-Load | AIT2PB-04B-1AK | 400 | Black |

Material

Housing: Glass-filled PBT
TPA: Glass-filled PBT, red

AIT-II CONNECTOR

Male terminal

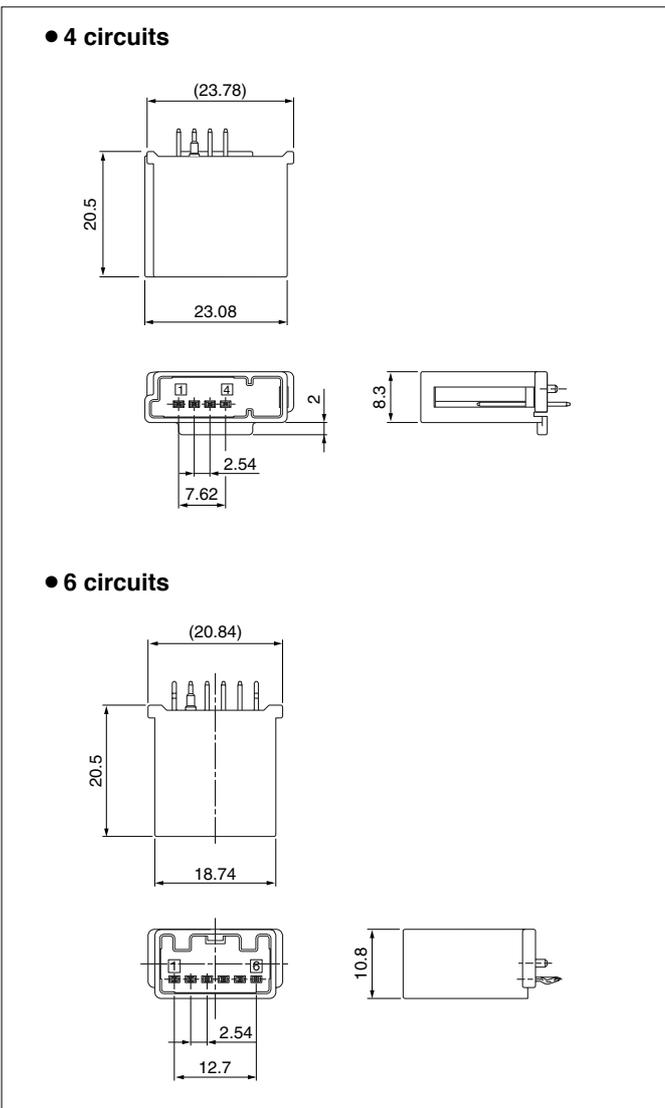


| Model No. | Applicable wire range | | Q'ty/reel |
|------------------|------------------------------|----------------------|-----------|
| | Conductor (mm ²) | Insulation O.D. (mm) | |
| ①SAITW-A03T-064 | 0.3 to 0.5 | ≤1.9 | 7,000 |
| ①SAITW-A02T-064 | 0.75 to 0.85 | ≤1.9 | 7,000 |
| ②SAITW-A03GF-064 | 0.3 to 0.5 | ≤1.9 | 7,000 |
| ②SAITW-A02GF-064 | 0.75 to 0.85 | ≤1.9 | 7,000 |

Material and Finish

- ①Brass, tin-plated (reflow treatment)
- ②Brass, nickel-undercoated, Contact area: gold-plated
Barrel area: tin-plated

Male connector (Top entry type)



| Circuits | Model No. | Q'ty/box | Housing Color |
|----------|-------------------|----------|---------------|
| 4 | ①B04BA-AIT2-1AK | 108 | Black |
| 6 | ②B06BA-AIT2-1AK-K | 120 | Black |

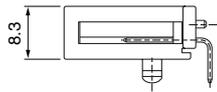
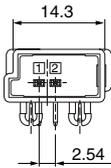
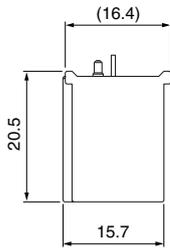
Material and Finish

- Housing: ①Glass-filled nylon
②Glass-filled PBT
- Pin: Brass, tin-plated

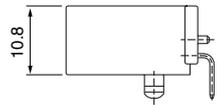
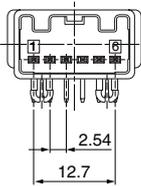
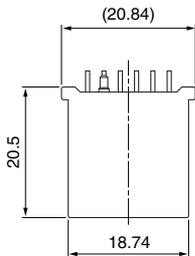
Male connector (Side entry type)

Single row

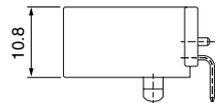
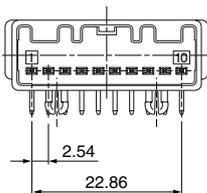
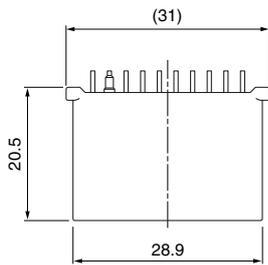
• 2 circuits



• 6 circuits



• 10 circuits



| Circuits | Model No. | Q'ty/box | Housing Color |
|----------|-------------------|----------|-----------------|
| 2 | ① S02BA-AIT2-1AK | 96 | Black |
| | ① S02BA-AIT2-1FS | | Natural (White) |
| 6 | ① S06B-AIT2-1AK | 80 | Black |
| | ① S06B-AIT2-1FS | | Natural (White) |
| | ① S06B1-AIT2-1FS | | Natural (White) |
| | ② S06B1-AIT2G-1AK | | Black |
| 10 | ② S10B-AIT2G-1AK | 72 | Black |
| | ② S10B-AIT2G-1AD | | Orange |

Material and Finish

Housing: Glass-filled PBT

Pin: ① Brass, tin-plated

② Brass, tin-plated, nickel-undercoated,

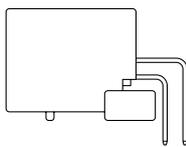
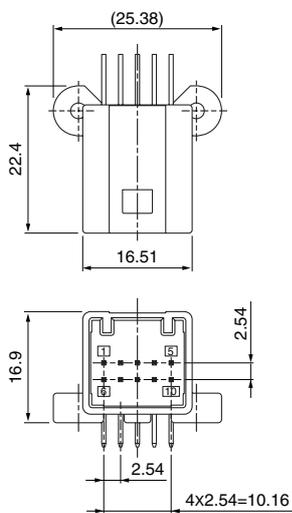
Contact area: gold-plated

AIT-II CONNECTOR

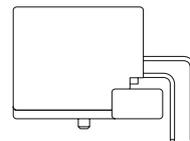
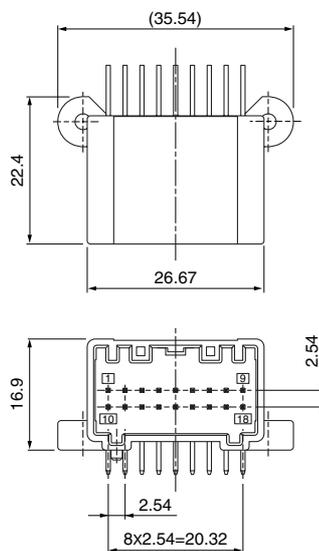
Male connector (Side entry type)

Dual row

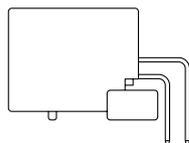
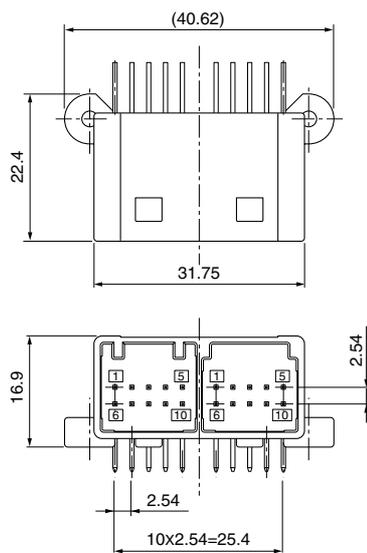
• 10 circuits



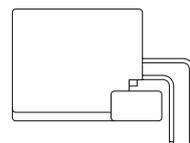
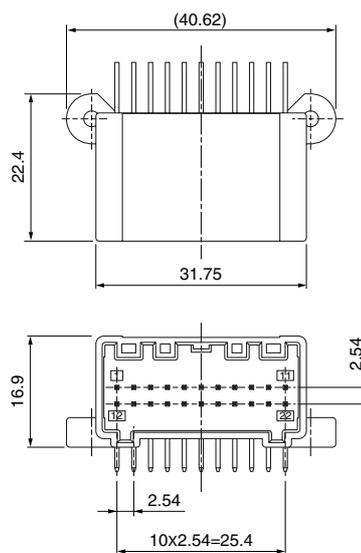
• 18 circuits



• 20 circuits



• 22 circuits



| Circuits | Model No. | Q'ty/box | Housing Color |
|----------|--------------------------|----------|-----------------|
| 10 | ① S10B-AIT2-2AK (LF)(SN) | 224 | Black |
| | ② S10B-AIT2G-2AK | | Black |
| 18 | ② S18B-AIT2G-2AK | 160 | Gray |
| | ② S18B-AIT2G-2BH | | Green |
| | ② S18B-AIT2G-2DM | | Natural (White) |
| | ② S18B-AIT2G-2FS | | Orange |
| | ② S18B-AIT2G-2AD | | Orange |
| 20 | ② S20B-AIT2G-2A2BK | 128 | Black |
| | ② S22B-AIT2G-2AK | | Black |
| 22 | ② S22B-AIT2G-2BH | 128 | Gray |
| | ② S22B-AIT2G-2CN | | Brown |
| | ② S22B-AIT2G-2FS | | Natural (White) |
| | | | |

Material and Finish

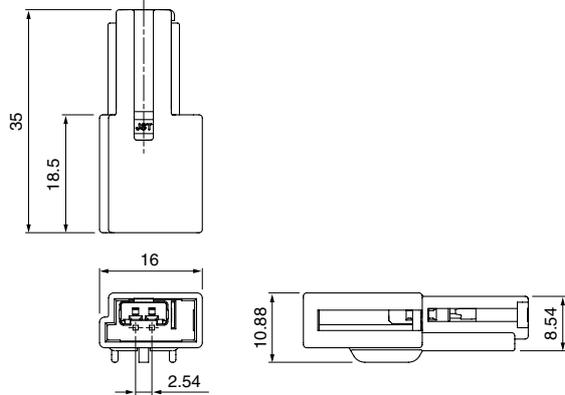
Housing: Glass-filled PBT

Pin: ① Brass, tin-plated

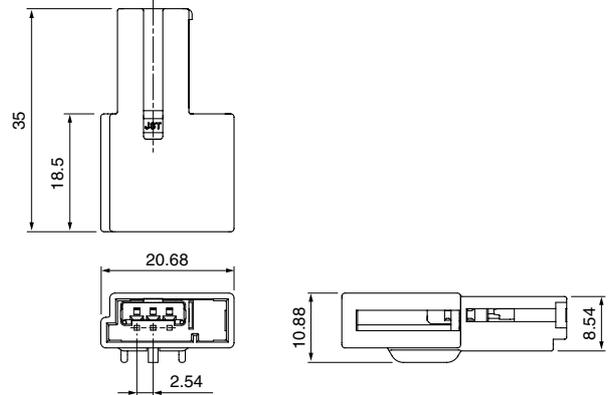
② Brass, tin-plated, Contact area: gold-plated

Male connector (Wire-to-wire)

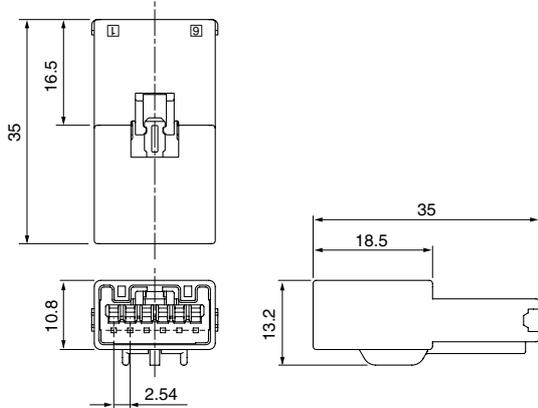
● 2 circuits



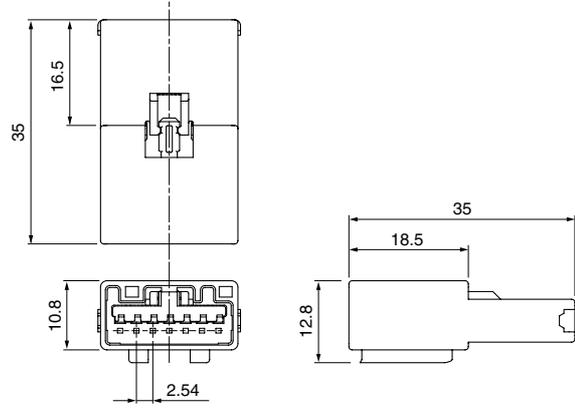
● 3 circuits



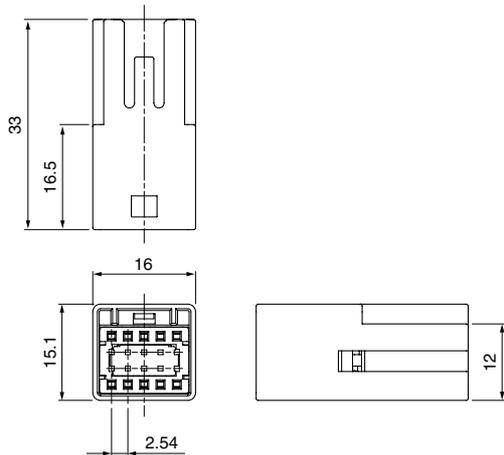
● 6 circuits



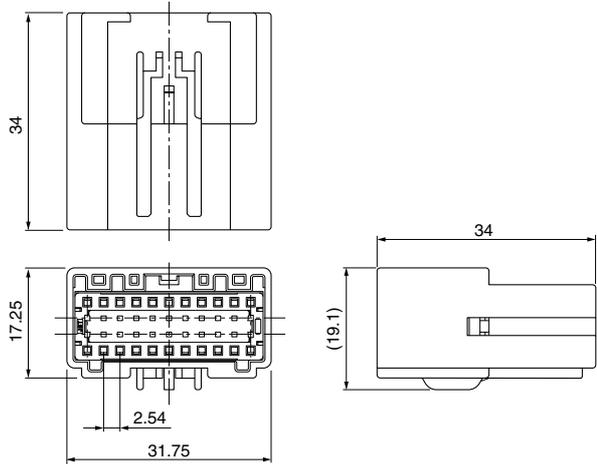
● 7 circuits



● 10 circuits (Dual row)



● 22 circuits (Dual row)



| Circuits | Model No. | Q'ty/box | Housing Color | TPA Color |
|----------|------------------------|----------|-----------------|-----------------|
| 2 | AIT2WSB-02A-1AK | 300 | Black | Red |
| 3 | AIT2WSB-03A-1AK | 200 | Black | Red |
| 6 | AIT2WSB-06-1AK | 150 | Black | Red |
| | AIT2WSB-06-1FS | 150 | Natural (White) | Red |
| 7 | AIT2WSB-07-1FS | 150 | Natural (White) | Red |
| | AIT2WSB-07-1FK | 150 | Black | Red |
| 10 | AIT2WSB-10A-2AK | 150 | Black | Natural (White) |
| | AIT2WSB-10A-2BH | 150 | Gray | Natural (White) |
| 22 | AIT2WSB-22-2AK | 60 | Black | Natural |

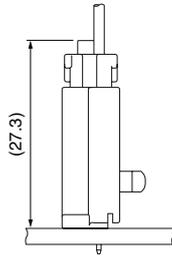
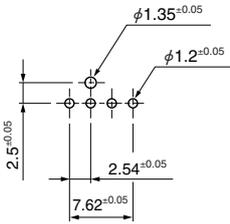
Material

Housing: Glass-filled PBT
TPA: Glass-filled PBT

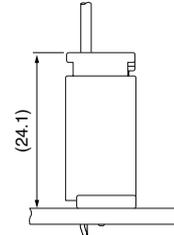
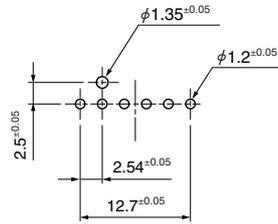
PC board layout, Assembly layout

Top entry type

● 4 circuits



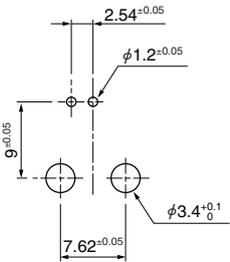
● 6 circuits



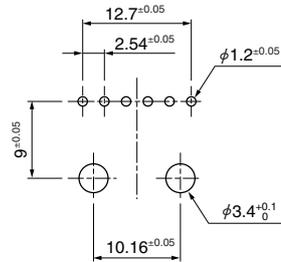
Side entry type

Single row

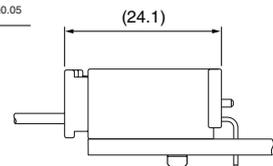
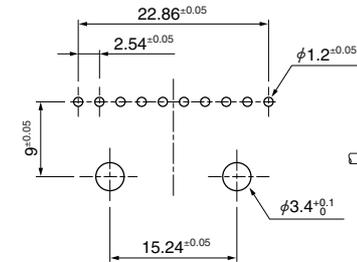
● 2 circuits



● 6 circuits

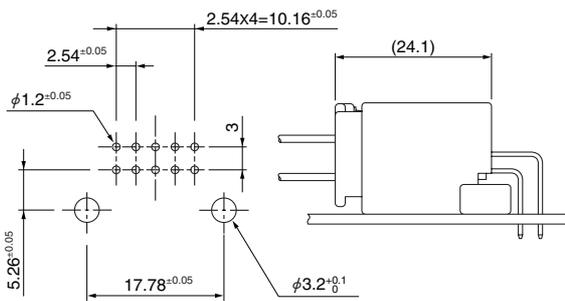


● 10 circuits

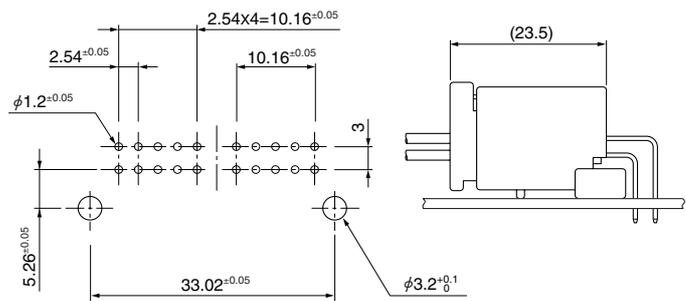


Dual row

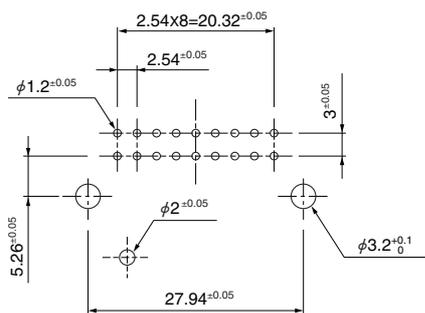
● 10 circuits



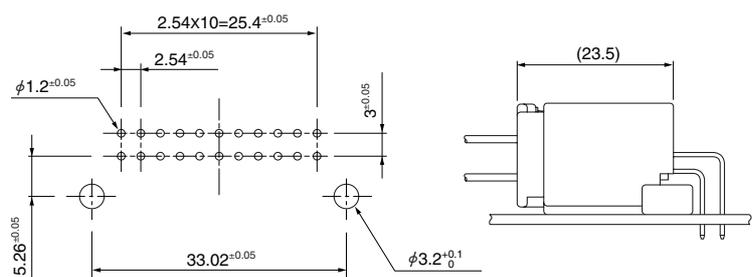
● 20 circuits



● 18 circuits



● 22 circuits



Note: 1. Tolerances are non-cumulative.

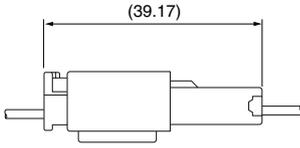
2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as guideline. Contact JST for details.

Assembly layout

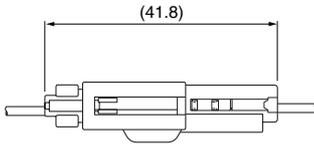
Wire-to-wire type

● Single row

AIT2WSB-()-1()

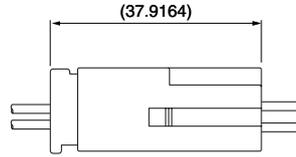


AIT2WSB-()A-1()

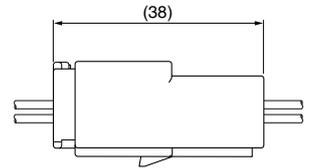


● Dual row

AIT2WSB-()A-2()



AIT2WSB-22-2AK



Crimping machine, Applicator

| Strip terminal | Crimping machine | Crimp applicator MKS-L | |
|------------------|------------------|------------------------|----------------------------|
| | | Dies | Crimp applicator with dies |
| SAIT-A03()-M064 | AP-K2N | MK/SAIT-A03-064 | APLMK SAIT-A03-064 |
| SAIT-A02()-M064 | | MK/SAIT-A02-064 | APLMK SAIT-A02-064 |
| SAITW-A03()-064 | | MK/SAITW-A03-064 | APLMK SAITW-A03-064 |
| SAITW-A02()-064 | | MK/SAITW-A02-064 | APLMK SAITW-A02-064 |

Note: When crimping operation is conducted using an applicator and die set other than the above, JST cannot guarantee the performance of the terminal.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

JST:

[AIT2PB-06-1BH](#)

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкуренспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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