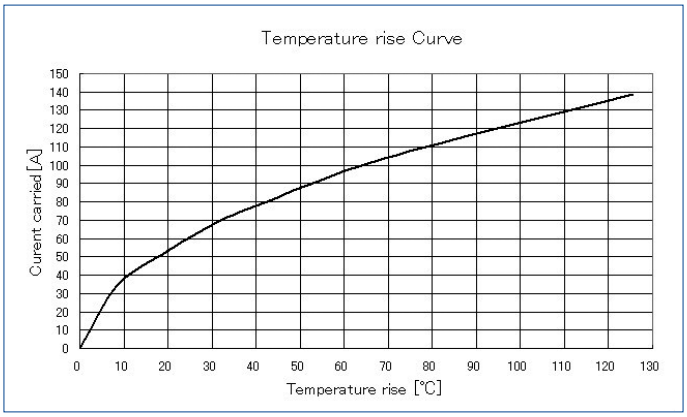
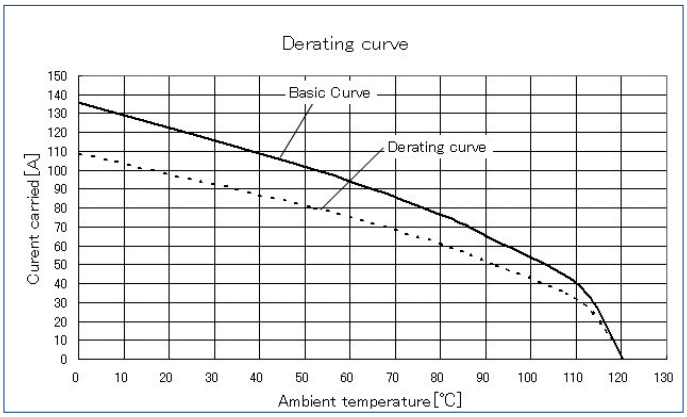
# 60 Amp Board-to-Board Power Pin Connectors

IT-P Series



## ■Temperature Rise Curve




Note : These graphs are for the below combination.
Interposer : IT-P-2P-35H(11)
Receptacle : IT-PD-2S-DIR, IT-PM-2S-DIR

## ■Features

1. Up to 60 Amp/pin current rating
2. Unique 3-piece structure for flexibility
3. Multiple mating capability (Floating amount ±0.3mm)
4. Paste in hole reflow assembly
5. Stacking heights from 10 to 66mm
6. Designed to be used/assembled alongside IT3, IT5, and IT7

## ■Stacking Height Variations

※All products are designed for +1mm height use, for example IT-P-2P-65H(11) is applicable to 65～66mm height application.

| | IT-PB Series | | | IT-PA Series | | IT-P Series | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stacking Height | 10 mm | 11 mm | 12 mm | 14 mm | 15 mm | 16 mm | 17 mm | 21 mm | 22 mm | 23 mm | 24 mm | 25 mm | 26 mm | 27 mm | 28 mm | 29 mm | 30 mm | 35 mm | 36 mm | 37 mm | 38 mm | 39 mm | 40 mm | 41 mm | 42 mm | 43 mm | 44 mm | 65 mm | 66 mm |
| | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | * | * | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

*Under development / planned

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## ■Product Specification

| | | | | |
|---|---|---|---|---|
| Ratings | Current Rating | 60A / pin (Note 6)<br>(Temperature rise 30℃ max) | Operating temperature range<br>Operating humidity range | -55℃ to +85°C (Note 1,2)<br>RH 90% max (Note 2,4) |
| | Voltage Rating | 300 V DC/AC | Storage temperature range<br>Storage humidity range | -10℃ to +60℃ (Note 3)<br>RH 70% max (Note 3,4) |

| Item | Specification | Condition |
|---|---|---|
| 1. Insulation resistance | 1000 MΩ min. | Measured at DC 500V |
| 2. Withstanding voltage | No flashover or insulation breakdown | AC 1000V for 1 minute |
| 3. Contact resistance | 2mΩ max (Note 5) | 100mA |
| 4. Vibration resistance | No electrical discontinuity of 1μs or more<br>No damage, cracks or loose parts | Frequency : 50 to 2000Hz, Power Spectral Density : 0.1g²/Hz for 90 minutes in three directions |
| 5. Cyclic temperature and humidity | Contact resistance : 2mΩ max. (Note 5)<br>No damage, cracks or loose parts | 25℃, 80% RH : 60 min dwell time, 30 min ramp time<br>65℃, 50% RH : 60 min dwell time for 24 cycles |
| 6. Durability (Mating / Unmating) | Contact resistance : 2mΩ max. (Note 5)<br>No damage, cracks or loose parts | 100 cycles |

Note 1 : Include temperature rise caused by current-carrying.
Note 2 : Operating temperature should be -55 to 55℃ when humidity exceeds 80% RH.
Note 3 : "Storage" means a long-term storage state for the unused product in sealed packages before assembly to PCB.
Note 4 : No dew condensation is permitted.
Note 5 : The value of contact resistance includes 2 contact points and the bulk resistance.
Note 6 : Current rating of IT-PA and IT-PB series is 40A. (See the details on page 3.)

## ■Materials / Finish

| Series | Product | Part | Material | Finish | Remarks |
|---|---|---|---|---|---|
| IT-P | Receptacle | Housing (Mounting) | LCP | Black color | UL94V-0 |
| | | Housing (Mating) | LCP | Gray color | UL94V-0 |
| | | Contact | Copper Alloy | Gold plated | ——— |
| | | Shell | Brass | Silver plated | ——— |
| | Interposer | Housing | PBT | Black color | UL94V-0 |
| | | Contact | Copper Alloy | Silver plated | ——— |
| IT-PA<br>IT-PB | Receptacle | Housing | LCP | Black color | UL94V-0 |
| | | Contact | Copper Alloy | Gold plated | ——— |
| | | Shell | Brass | Silver plated | ——— |
| | Interposer | Contact | Copper Alloy | Silver plated | ——— |

Note 1 : The IT-PA and IT-PB series use the same receptacle housing for the mounting and mating sides.
Note 2 : There is no interposer housing for the IT-PA and IT-PB series.

## ■Nomenclature

Please select a product based on the ordering information described on page 3 of this catalog when ordering.

●Receptacle

**IT-P ** - 2 S - DIR ** (**)**
❶ ❷ ❸ ❹ ❺ ❻ ❼

●Interposer

**IT-P ** - 2 P - ** H ** (**)**
❶ ❷ ❸ ❹ ❽ ❻ ❼

❶ Series Name : IT-P

❷ Extra name
Receptacle Type
A : Narrow type Receptacle
B : Narrow and Low height Receptacle
D : Mating Receptacle
D* : Mating Receptacle (Customized)
M : Mounting Receptacle
M* : Mounting Receptacle (Customized)
Interposer Type
A : Interposer for Narrow type receptacle
B : Interposer for Narrow and Low height Receptacle
Blank : Standard
** : Customized

❸ Contact Positions : 2

❹ Connector type
S : Receptacle
P : Interposer

❺ DIR : Paste in hole (PIH) reflow

❻ Packaging or Other Specification
·Receptacle
Blank : Standard
L : Low height receptacle
** : Customized
·Interposer
Blank : Standard
** : Customized

❼ Material and Plating Specification
·Receptacle
Blank : Standard
** : Customized
·Interposer
Blank : Brass, Contact plating (silver 5.1um + Ni 1.5um)
(11) : ETP Copper, Contact plating (silver 5.1um + Ni 1.5um)
** : Customized

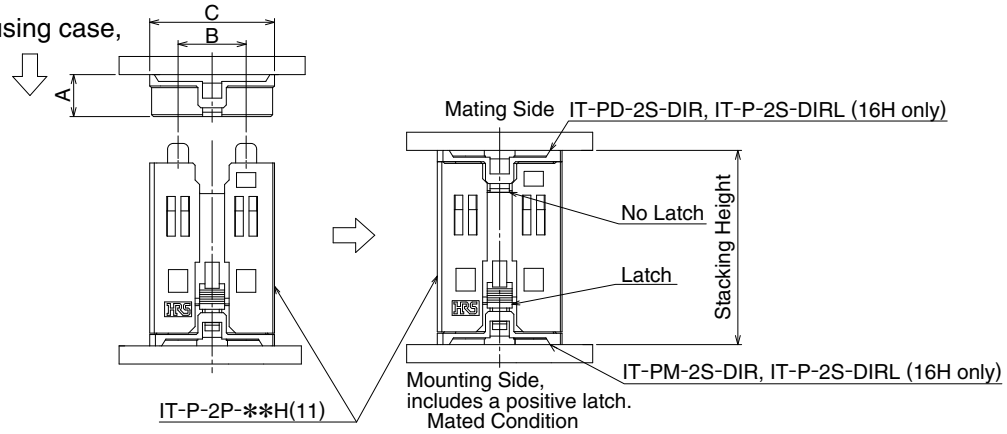
❽ Stacking Height (mm)
10, 11, 14, 16, 21, 23, 25, 27, 29, 35, 37, 39, 41, 43, 65
*All products are designed for +1mm height use, for example IT-P-2P-65H(11) is applicable to 65~66mm height application.

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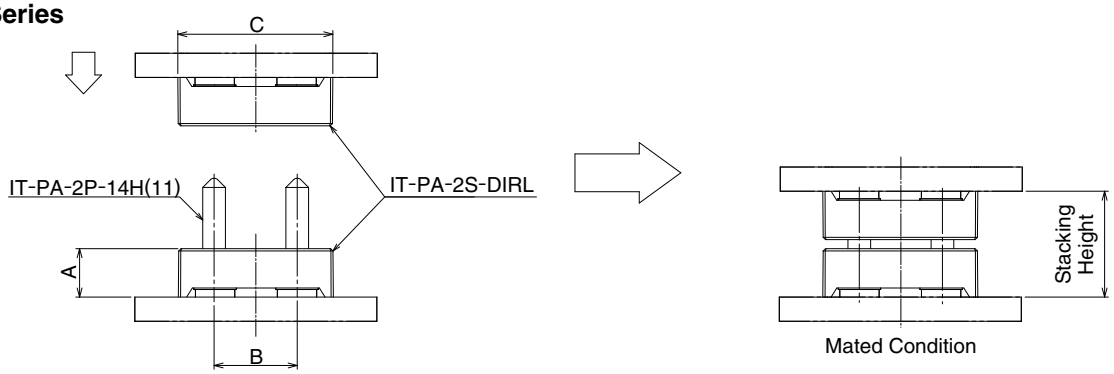
# ■Product Series

### IT-P Series

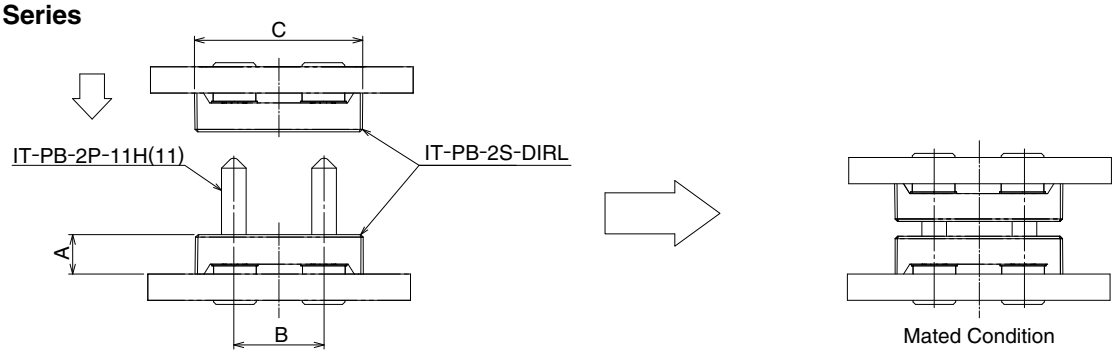
∗16H is without housing case,
like IT-PA, IT-PB




### IT-PA Series




### IT-PB Series



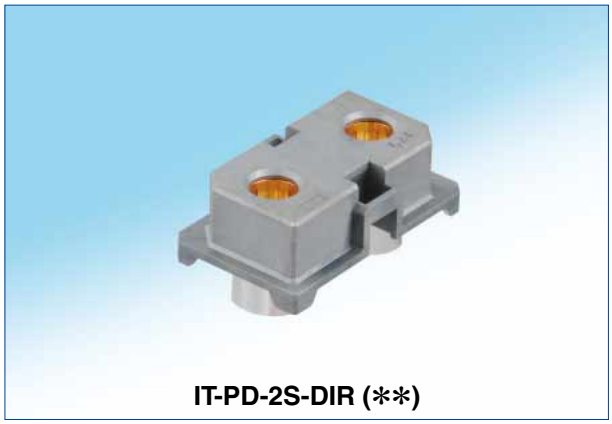

Unit : mm

| Stacking Height Range | Current Rating | Interposer | | Receptacles | | Dimension | | |
|---|---|---|---|---|---|---|---|---|
| | | Part No. | HRS No. | Part No. | HRS No. | A | B | C |
| 10～11 | 40A | IT-PB-2P-10H(11) | 636-0632-0 11 | IT-PB-2S-DIRL | 636-0631-0 | 4.65 | 10.8 | 20.5 |
| 11～12 | | IT-PB-2P-11H(11) | 636-0633-0 11 | | | | | |
| 14～15 | | IT-PA-2P-14H(11) | 636-0613-9 11 | IT-PA-2S-DIRL | 636-0614-1 | 6.4 | 10.8 | 20.5 |
| 16～17 | 60A | IT-P-2P-16H(11) | 636-0644-0 11 | IT-P-2S-DIRL | 636-0611-3 | 6.6 | 12 | 22 |
| 21～22 | | IT-P-2P-21H(11) | 636-0618-2 11 | IT-PM-2S-DIR<br>IT-PD-2S-DIR | 636-0600-7<br>636-0601-0 | 7.2 | 12 | 22 |
| 23～24 | | IT-P-2P-23H(11) | 636-0610-0 11 | | | | | |
| 25～26 | | IT-P-2P-25H(11) | 636-0607-6 11 | | | | | |
| 27～28 | | IT-P-2P-27H(11) | 636-0624-5 11 | | | | | |
| 29～30 | | IT-P-2P-29H(11) | 636-0615-4 11 | | | | | |
| 35～36 | | IT-P-2P-35H(11) | 636-0602-2 11 | | | | | |
| 37～38 | | IT-P-2P-37H(11) | 636-0620-4 11 | | | | | |
| 39～40 | | IT-P-2P-39H(11) | 636-0606-3 11 | | | | | |
| 41～42 | | IT-P-2P-41H(11) | 636-0619-5 11 | | | | | |
| 43～44 | | IT-P-2P-43H(11) | 636-0621-7 11 | | | | | |
| 65～66 | | IT-P-2P-65H(11) | 636-0643-0 11 | | | | | |

Note 1 : IT-PB-2P-10H(∗∗), IT-PB-2P-11H(∗∗), IT-PA-2P-14H(∗∗) and IT-P-2P-16H(∗∗) do not come with a housing.
Note 2 : IT-PA-2P-14H (∗∗) is designed to mate with IT-PA-2S-DIRL only.
Note 3 : IT-PB-2P-10H(∗∗) and IT-PB-2P-11H (∗∗) are designed to mate with IT-PB-2S-DIRL only.
Note 4 : IT-P-2P-16H(∗∗) is designed to mate with IT-P-2S-DIRL only.

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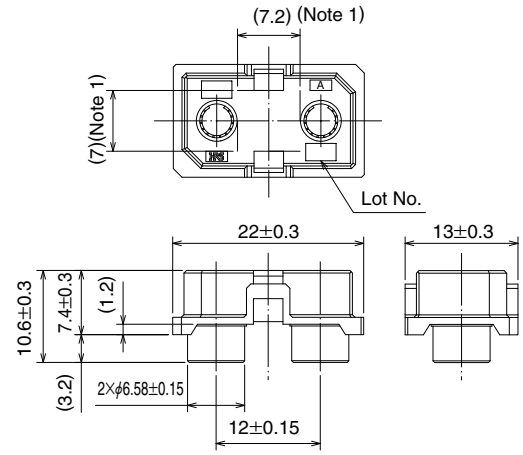
## IT-P Series
# ■Receptacle (Paste in hole)



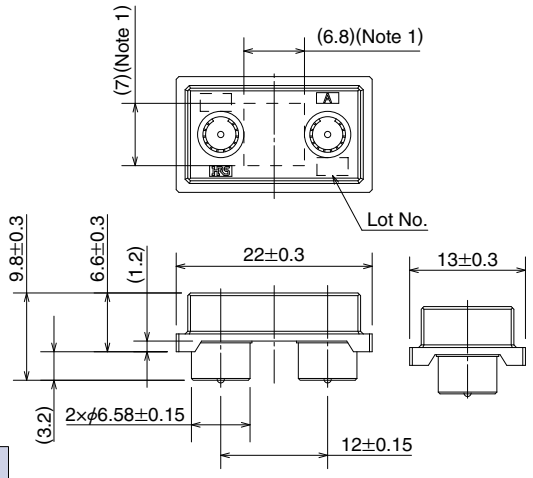
**IT-PD-2S-DIR (**)**

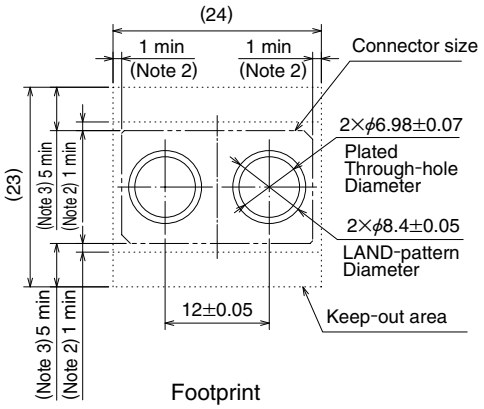


**IT-PM-2S-DIR (**)**




IT-PM-2S-DIR & IT-PD-2S-DIR



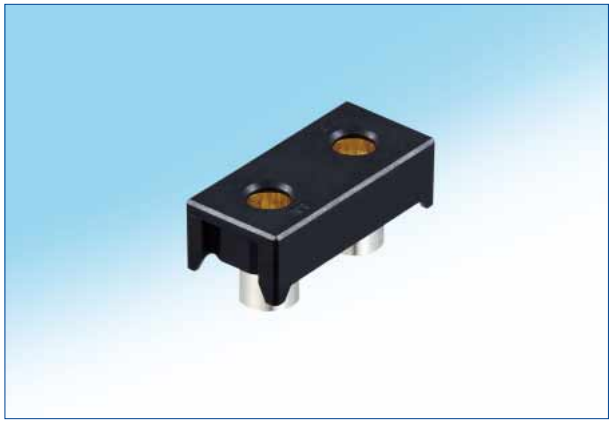

Footprint

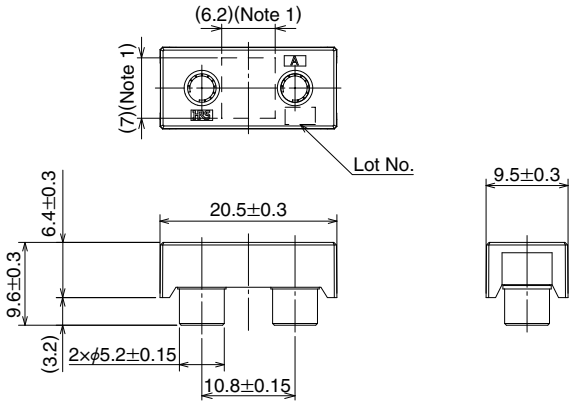
| Type | Color | Part No. | HRS No. | No. of contacts | Packing | Pitch |
|---|---|---|---|---|---|---|
| Mating side | Gray | IT-PD-2S-DIR | 636-0601-0 | 2 | 250pcs/ reel | 12mm |
| Mounting side | Black | IT-PM-2S-DIR | 636-0600-7 | 2 | | |
| Mating side Mounting side | Black | IT-P-2S-DIRL | 636-0611-3 | 2 | | |

Note 1 : This area is a vacuum pickup area.
Note 2 : Minimum clearance area.
Note 3 : Recommended clearance area for insertion / extraction.
Note 4 : Please see page 3 (Ordering Information) for applicable Interposers.
Note 5 : IT-P-2S-DIRL is designed to mate with IT-P-2P-16H(**) only.
Note 6 : There is no latch for IT-P-2S-DIRL.

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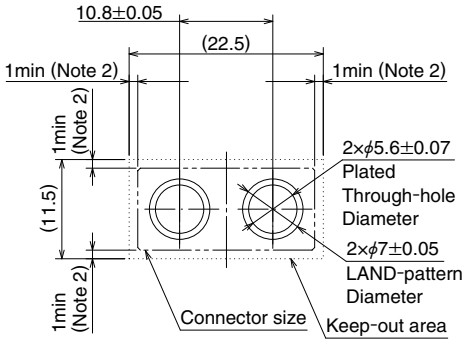
## IT-PA Series
## (Narrow type)
## ■Receptacle (Paste in hole)






| Part No. | HRS No. | No. of contacts | Packing | Pitch |
|---|---|---|---|---|
| IT-PA-2S-DIRL | 636-0614-1 | 2 | 250pcs/ reel | 10.8mm |

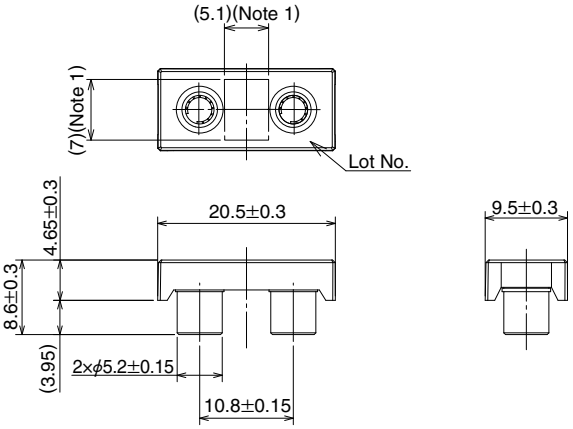
Note 1 : This area is a vacuum pickup area.
Note 2 : Minimum clearance area.
Note 3 : This product is designed to mate with IT-PA-2P-14H (**) Only.
Note 4 : IT-PA series are Narrow type of IT-P.
Note 5 : There is no latch for this receptacle.




Footprint

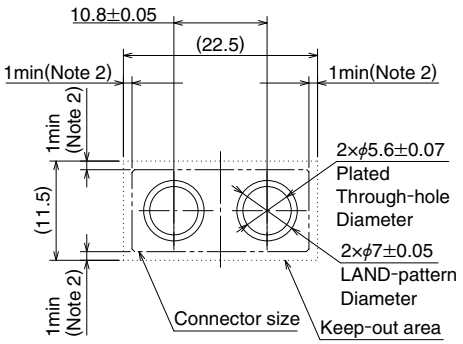
## IT-PB Series
## (Narrow and Low height type)
## ■Receptacle (Paste in hole)






| Part No. | HRS No. | No. of contacts | Packing | Pitch |
|---|---|---|---|---|
| IT-PB-2S-DIRL | 636-0631-0 | 2 | 250pcs/ reel | 10.8mm |

Note 1 : This area is a vacuum pickup area.
Note 2 : Minimum clearance area.
Note 3 : This product is designed to mate with IT-PB-2P-10H (**) and IT-PB-2P-11H (**) only.
Note 4 : IT-PB series are Narrow and Low height type of IT-P.
Note 5 : There is no latch for this receptacle.



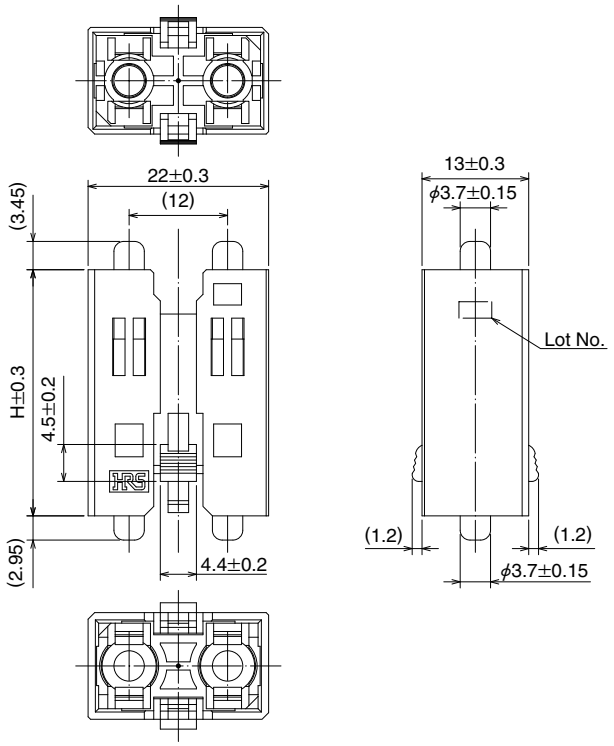

Footprint

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## IT-P Series
# ■Interposer with Housing



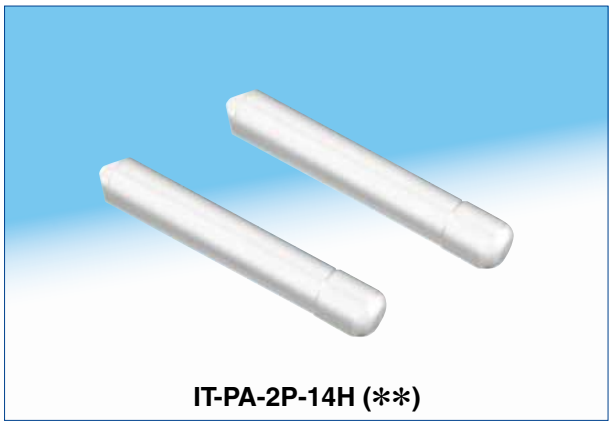
IT-P-2P-35H (**)




Unit : mm

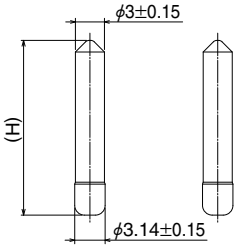
| Part No. | HRS No. | Stacking Height | H | Packing | Pitch |
|---|---|---|---|---|---|
| IT-P-2P-21H(11) | 636-0618-2 11 | 21～22 | 16 | 50pcs/tray | 12 |
| IT-P-2P-23H(11) | 636-0610-0 11 | 23～24 | 18 | | |
| IT-P-2P-25H(11) | 636-0607-6 11 | 25～26 | 20 | | |
| IT-P-2P-27H(11) | 636-0624-5 11 | 27～28 | 22 | | |
| IT-P-2P-29H(11) | 636-0615-4 11 | 29～30 | 24 | 56pcs/tray | |
| IT-P-2P-35H(11) | 636-0602-2 11 | 35～36 | 30 | 25pcs/tray | |
| IT-P-2P-37H(11) | 636-0620-4 11 | 37～38 | 32 | 40pcs/tray | |
| IT-P-2P-39H(11) | 636-0606-3 11 | 39～40 | 34 | | |
| IT-P-2P-41H(11) | 636-0619-5 11 | 41～42 | 36 | | |
| IT-P-2P-43H(11) | 636-0621-7 11 | 43～44 | 38 | | |
| IT-P-2P-65H(11) | 636-0643-0 11 | 65～66 | 60 | 28pcs/tray | |

## IT-P, IT-PA, IT-PB Series
# ■Interposer without Housing

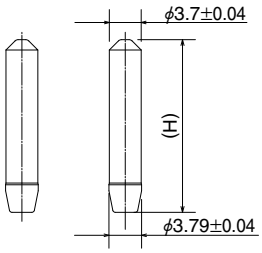


IT-PA-2P-14H (**)

**IT-PA, IT-PB Series**




**IT-P Series (16H only)**




Unit : mm

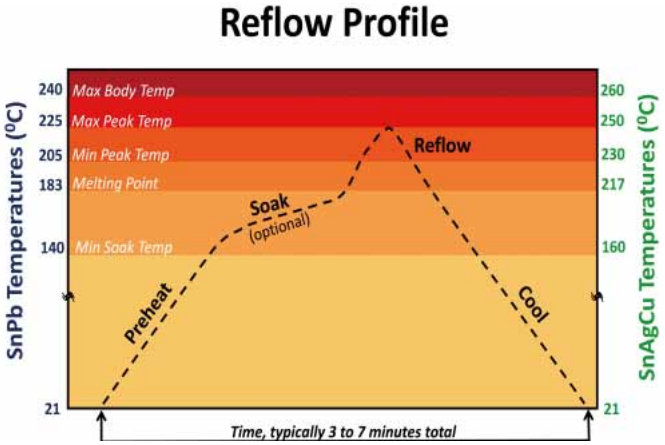
| Part No. | HRS No. | Stacking Height | H | Packing |
|---|---|---|---|---|
| IT-PB-2P-10H(11) | 636-0632-0 11 | 10～11 | 16.5 | 50pairs/tray |
| IT-PB-2P-11H(11) | 636-0633-0 11 | 11～12 | 17.5 | |
| IT-PA-2P-14H(11) | 636-0613-9 11 | 14～15 | 18 | |
| IT-P-2P-16H(11) | 636-0644-0 11 | 16～17 | 20 | |

Note 1 : The lager side (ϕ3.14) or (ϕ3.79) of the pin should be inserted to mother board side since it has a locking mechanism. You can remove the pin if you pull strongly.
Note 2 : The thinner side (ϕ3) or (ϕ3.7) does not have any locking mechanism.

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# ■Precautions For Use

## 1. Recommended Temperature Profile

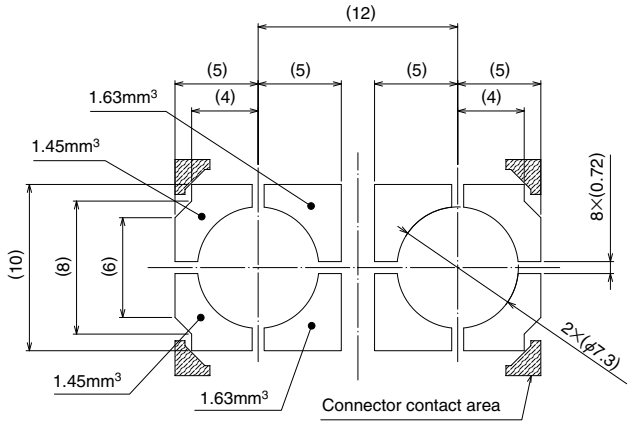



| Parameters | Eutectic(SnPb) | Pb-Free | Comment |
|---|---|---|---|
| Preheat Ramp Rate | 2 - 3℃/sec | 2 - 3℃/sec | Other components may limit ramp rate to 2℃/sec. |
| Soak Time | 0-120 sec | 0-120 sec | Soak requirements determined by board design, oven capability, and paste activation requirements |
| Soak Temperature | 140 - 180℃ | 160 - 215℃ | Caution-"oversoaking" may exhaust flux and affect soldering |
| Peak Reflow Temperature | 205 - 225℃ | 230 - 250℃ | Cooler peak temperatures may require longer TAL's |
| Time Above Liquidus (TAL) | 30-90 sec | 45 - 120 sec | Shorter TAL's may require higher peak temperatures |
| Cooling Rate | >6℃/sec | >6℃/sec | Faster cooling rates produce finer grain structures and smoother joint appearances |
| Maximum Package Body Terminal (T) | 240℃ | 260℃ | Open body design allows for low delta T between package and solder joint |
| Maximum Delta between Body and PWB at Liquidus | 10℃ | 10℃ | Standard practice is easy to achieve with open body design. |
| Package Body Exposure Limit at Maximum Temperature | 5 sec | 5 sec | Adjust profile if maximum exposure limit is approached or exceeded |

Note 1 : Values in this temperature profile are suggested values only.
Note 2 : IT-P receptacles are not compatible with the double-sided and inverted reflow.

## 2-1. Recommended Net Solder Paste Volume for IT-P series.

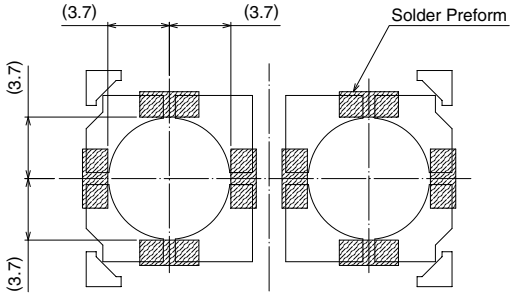
Dimensions For Recommended Net Solder Paste Volume




(1) Net solder paste volume : 10.9mm³
=12.32mm³ × (100-11.5)%
<Calculation conditions>
・Stencil thickness of 0.12mm
・Flux content of 11.5%

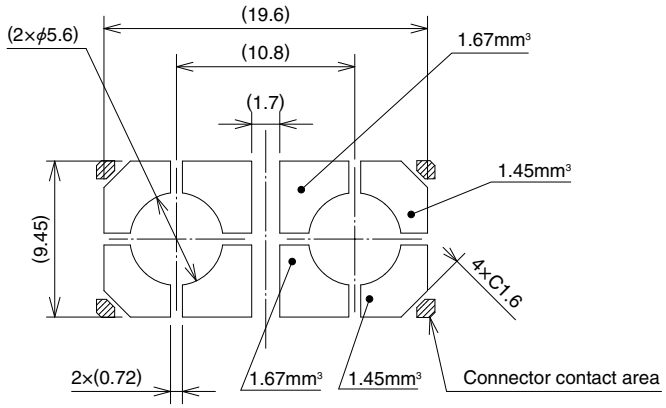
Dimensions For Recommended Solder Preform Placement

Note1. The following solder preform volume shows 2.4mm board thickness.

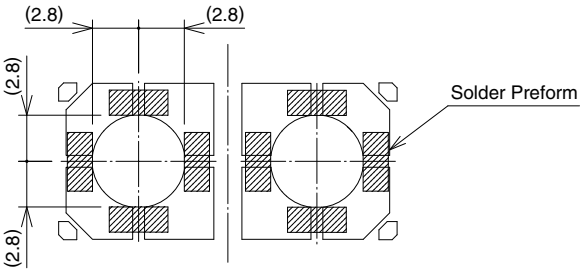



(2) Solder preform volume : 32.768mm³
<Calculation conditions>
・Recommended Preform Solder : SMIC Chip Solder S M705
・Size : 3.2×1.6×0.8 = 4.096mm³
・Quantity : 8 pcs

## 2-2. Recommended Net Solder Paste Volume for IT-PA and IT-PB series.



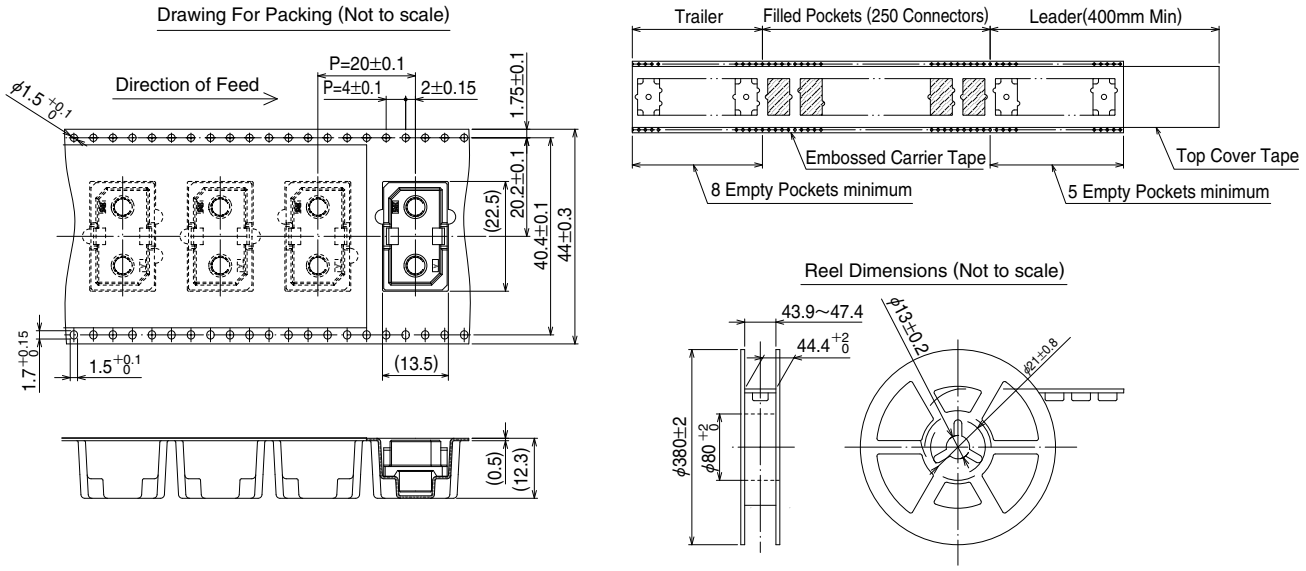

(1) Net solder paste volume : 11.05mm³
= 12.48mm³ × (100-11.5)%
<Calculation Conditions>
・Stencil thickness is 0.12mm
・Flux content rate is 11.5%




(2) Solder preform volume : 32.768mm³
<Calculation conditions>
・Recommended Preform Solder : SMIC Chip Solder S M705
・Size : 3.2×1.6×0.8 = 4.096mm³
・Quantity : 8 pcs

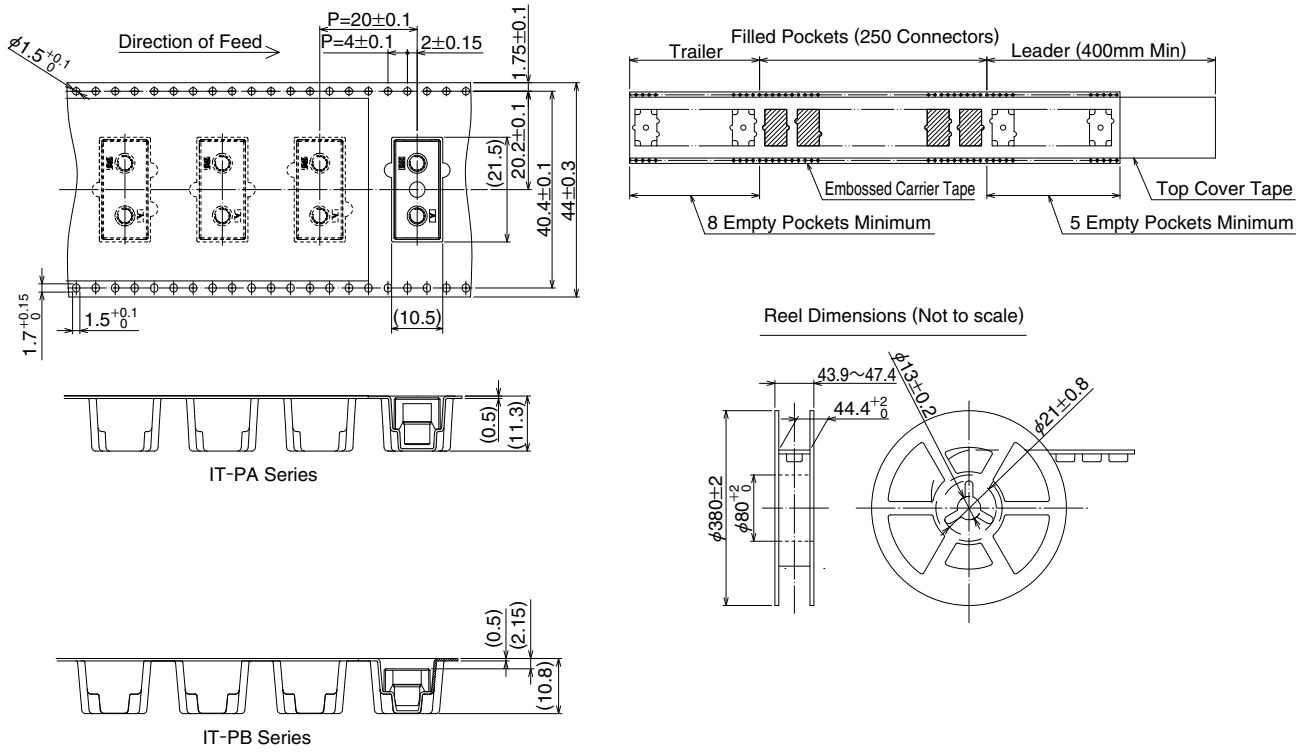
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## IT-P Series
# ◆Embossed Carrier Tape Dimensions




Note : This embossed carrier tape is for IT-PD-2S-DIR, IT-PM-2S-DIR, IT-P-2S-DIRL.

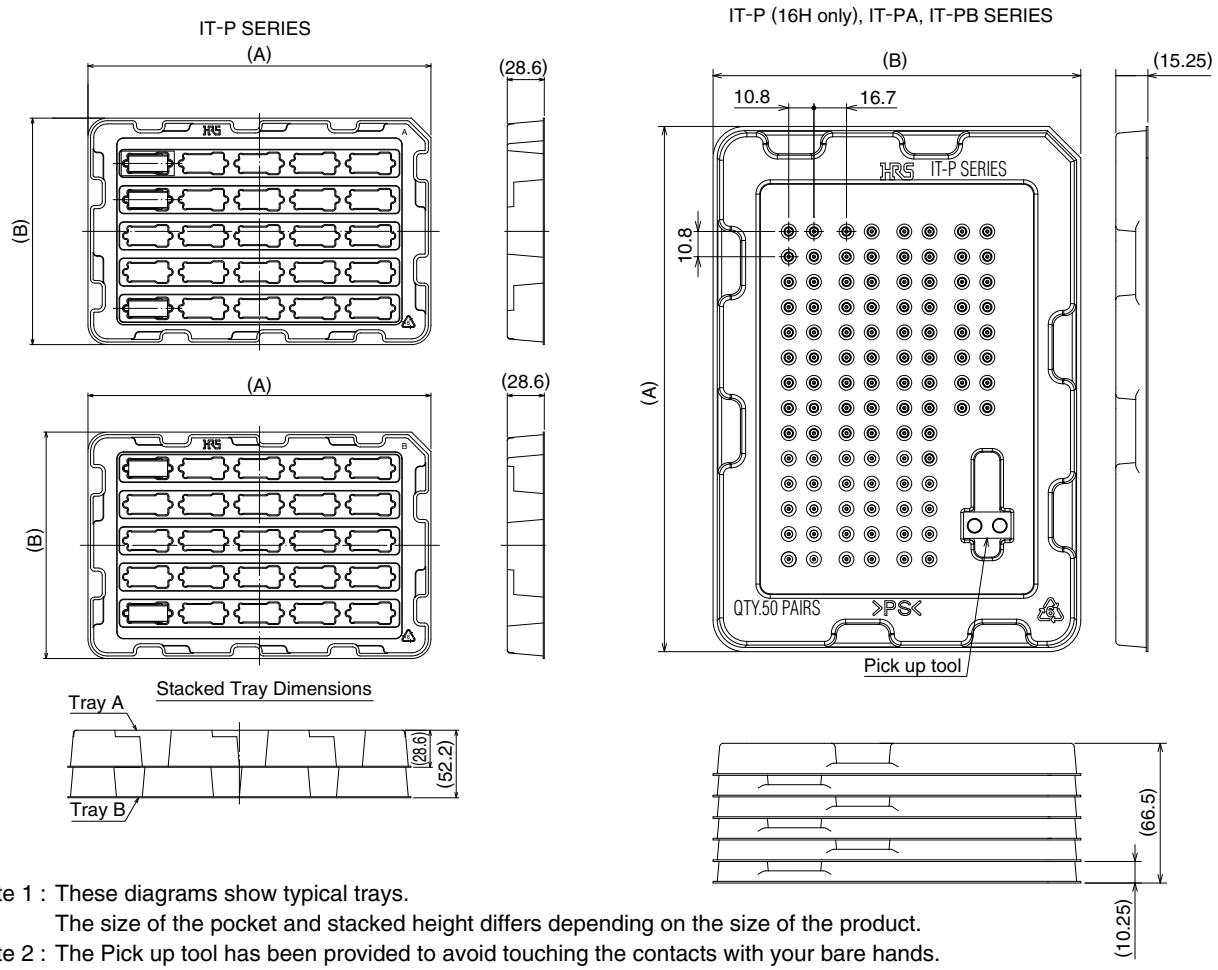
## IT-PA and IT-PB Series
# ◆Embossed Carrier Tape Dimensions




Note : This embossed carrier tape is for IT-PA-2S-DIRL and IT-PB-2S-DIRL.

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## Dimensions of Interposer Tray




Note 1 : These diagrams show typical trays.
The size of the pocket and stacked height differs depending on the size of the product.
Note 2 : The Pick up tool has been provided to avoid touching the contacts with your bare hands.
Note 3 : The Pick up tool with the red housing should be discarded after use.
Note 4 : The interposer of IT-P-2P-16H (**) , IT-PA and IT-PB series are placed into the tray with the larger side down.

## Product List

Unit : mm

| Part No. | HRS No. | Parts per Tray | Qty per Box | A | B |
|---|---|---|---|---|---|
| IT-PB-2P-10H(11) | 636-0632-0 11 | * 50 pairs | 500 | 250 | 175 |
| IT-PB-2P-11H(11) | 636-0633-0 11 | | | | |
| IT-PA-2P-14H(11) | 636-0613-9 11 | | | | |
| IT-P-2P-16H(11) | 636-0644-0 11 | | 300 | | |
| IT-P-2P-21H(11) | 636-0618-2 11 | 50 pcs | 150 | 355 | 255 |
| IT-P-2P-23H(11) | 636-0610-0 11 | | | | |
| IT-P-2P-25H(11) | 636-0607-6 11 | | | | |
| IT-P-2P-27H(11) | 636-0624-5 11 | | | | |
| IT-P-2P-29H(11) | 636-0615-4 11 | 56 pcs | 112 | | |
| IT-P-2P-35H(11) | 636-0602-2 11 | 25 pcs | 150 | 265 | 175 |
| IT-P-2P-37H(11) | 636-0620-4 11 | 40 pcs | 120 | 355 | 255 |
| IT-P-2P-39H(11) | 636-0606-3 11 | | | | |
| IT-P-2P-41H(11) | 636-0619-5 11 | | | | |
| IT-P-2P-43H(11) | 636-0621-7 11 | | 80 | | |
| IT-P-2P-65H(11) | 636-0643-0 11 | 28 pcs | 56 | | |

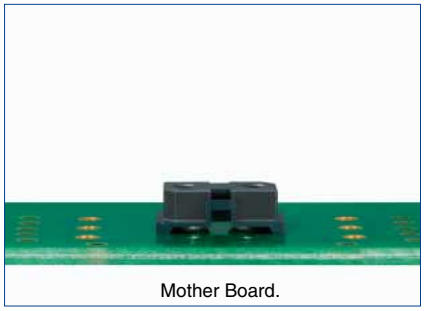
*16H is without housing case.
*1 pair = 2 contact pins

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## ◆Installation

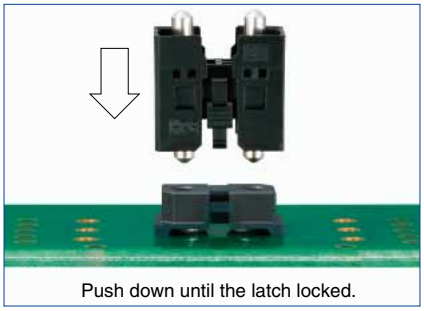
### <IT-P Series>

① Solder the Receptacle



Mother Board.

② Install Interposer

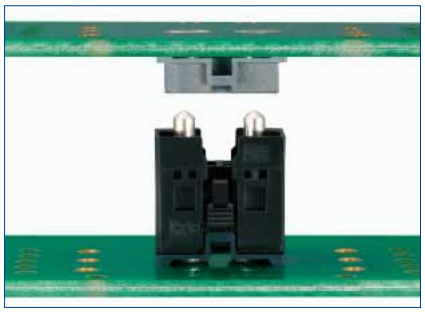


Push down until the latch locked.

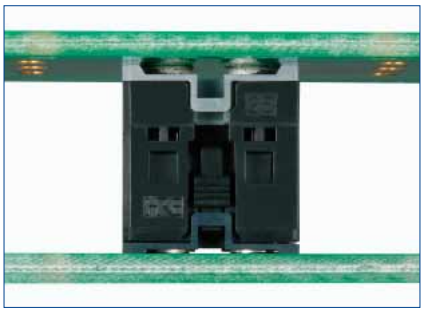
③ Interposer Installed



④ Install Daughter Card

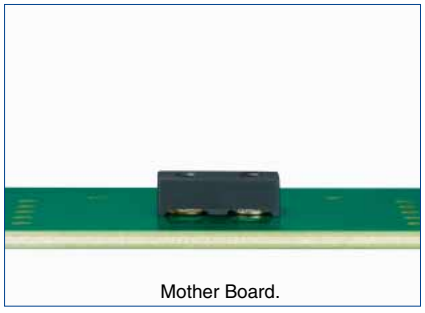


⑤ Mated



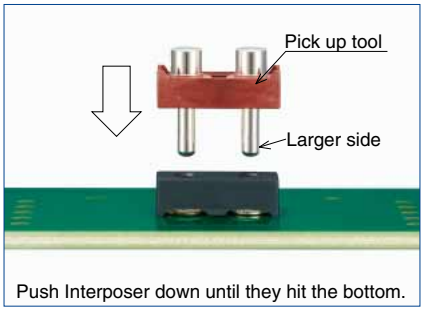
### <IT-PA, IT-PB Series>

① Solder the Receptacle



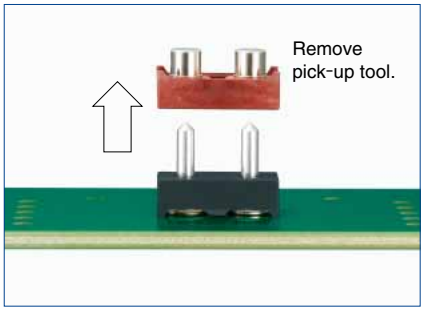
Mother Board.

② Pick up the Interposer and install into the receptacle

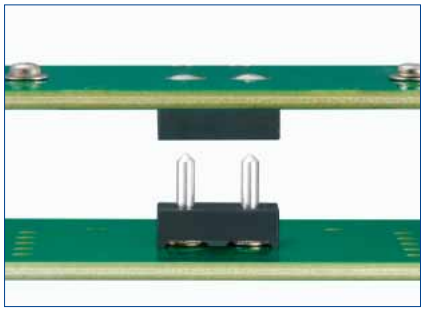



Push Interposer down until they hit the bottom.

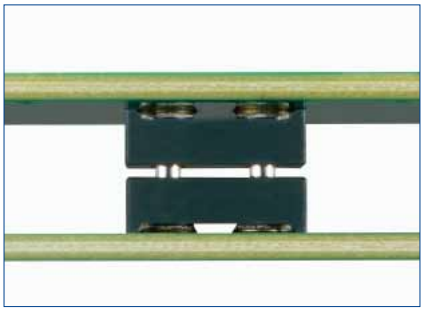
③ Interposer Installed




④ Install Daughter Card



⑤ Mated



Note 1 : To prevent silver tarnish, do not touch the contacts with your bare hands.
Use the mating receptacle that has been provided as a pick up tool.
Note 2 : The pick up tool is intended to be used to pick up the contacts in tray and then be discarded.

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