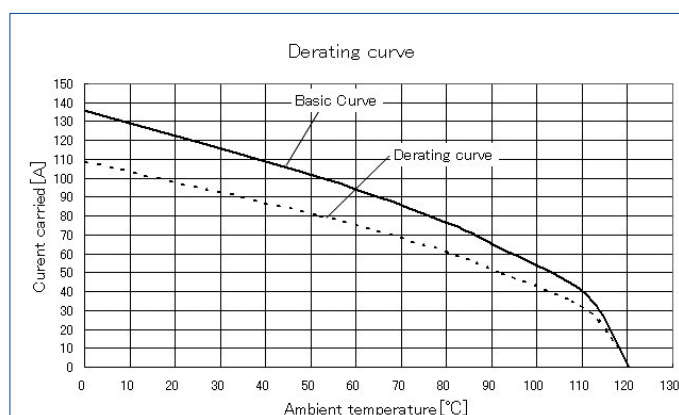


IT-P Series



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

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

[illegible]

In cases where the application will demand a high level of reliability, such as automotive, please contact a company representative for further information.

Product Specification

| | | | | |
|---------|----------------|---|---|--|
| Ratings | Current Rating | 60A / pin (Note 6) (Temperature rise 30°C max) | Operating temperature range Operating humidity range | -55°C to +85°C (Note 1,2) RH 90% max (Note 2,4) |
| | Voltage Rating | 300 V DC/AC | Storage temperature range Storage humidity range | -10°C to +60°C (Note 3) 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 No damage, cracks or loose parts | Frequency : 50 to 2000Hz, Power Spectral Density : 0.1g ² /Hz for 90 minutes in three directions |
| 5. Cyclic temperature and humidity | Contact resistance : 2mΩ max. (Note 5) No damage, cracks or loose parts | 25°C, 80% RH : 60 min dwell time, 30 min ramp time 65°C, 50% RH : 60 min dwell time for 24 cycles |
| 6. Durability (Mating / Unmating) | Contact resistance : 2mΩ max. (Note 5) 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°C 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 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 ** ()**

① ② ③ ④ ⑤ ⑥ ⑦

●Interposer

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

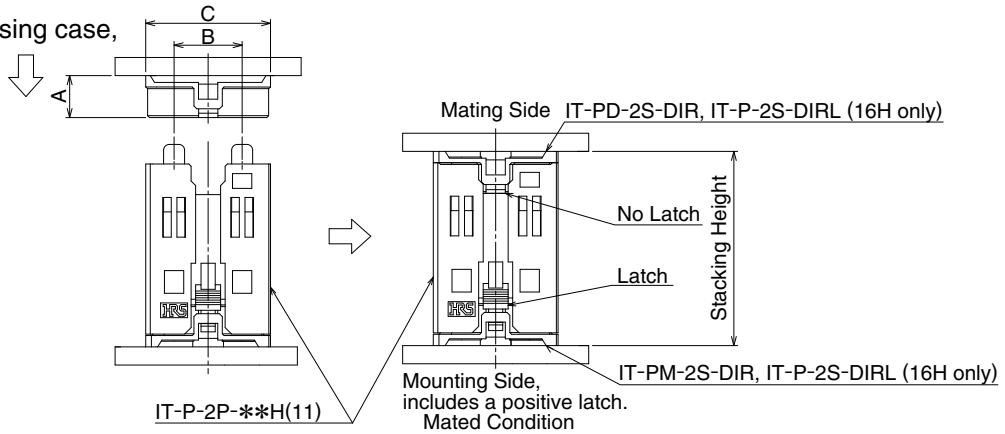
① ② ③ ④ ⑧ ⑥ ⑦

| | |
|---|--|
| ① Series Name : IT-P | ⑥ Packaging or Other Specification ·Receptacle Blank : Standard L : Low height receptacle ** : Customized ·Interposer Blank : Standard ** : Customized |
| ② 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 | ⑦ 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 |
| ③ Contact Positions : 2 | ⑧ 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. |
| ④ Connector type S : Receptacle P : Interposer | |
| ⑤ DIR : Paste in hole (PIH) reflow | |

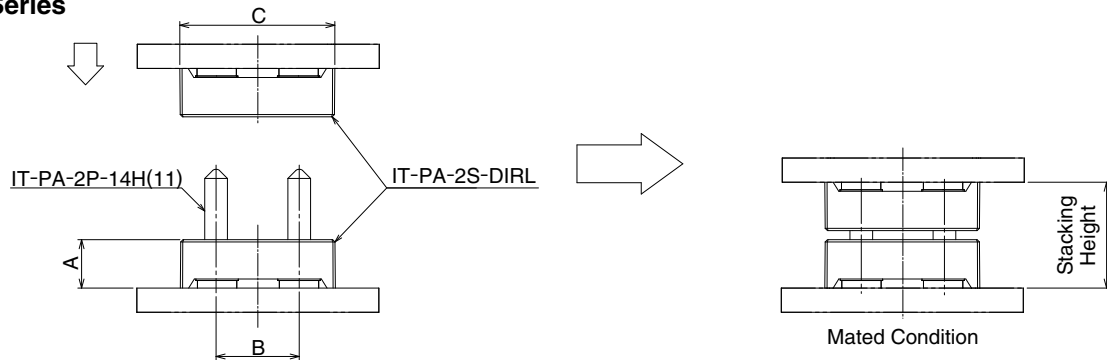
Product Series

IT-P Series

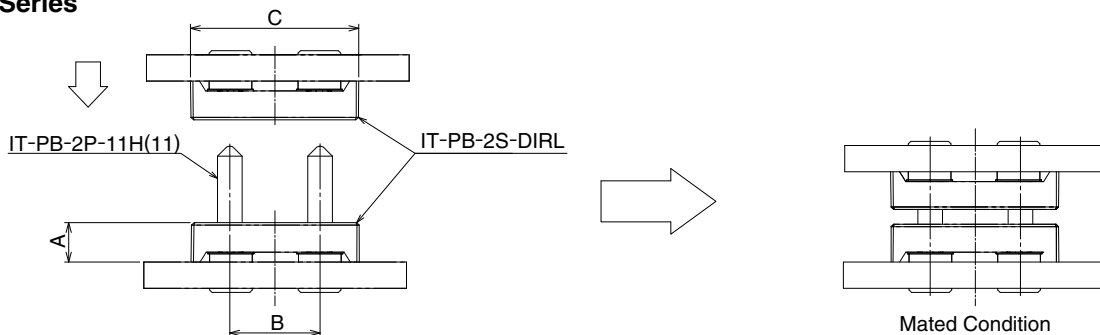
*16H is without housing case,
like IT-PA, IT-PB



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(**) | 636-0632-0 11 | IT-PB-2S-DIRL | 636-0631-0 | 4.65 | 10.8 | 20.5 |
| 11~12 | | IT-PB-2P-11H(**) | 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 | | | | | |
| 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 | | | | | |
| | | | | IT-PM-2S-DIR | 636-0600-7 | 7.2 | 12 | 22 |
| | | | | IT-PD-2S-DIR | 636-0601-0 | | | |

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.

IT-P Series
■ Receptacle (Paste in hole)



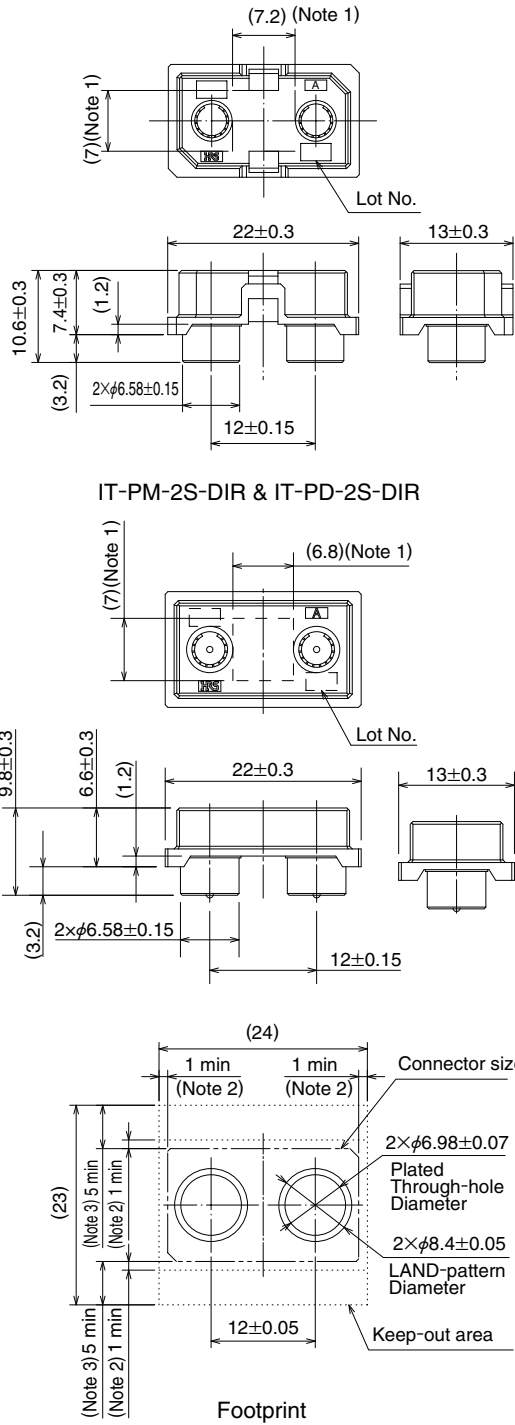
IT-PD-2S-DIR (**)



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

| 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.



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 |

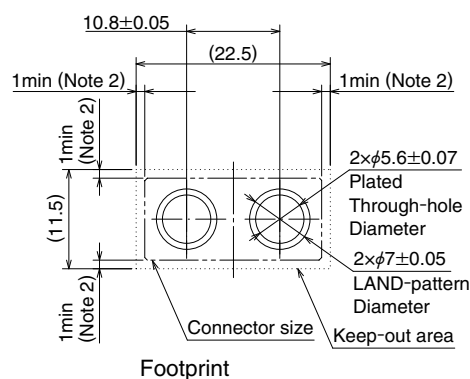
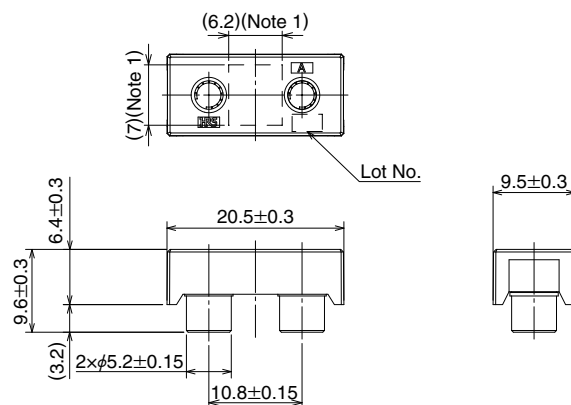
Note 1 : This area is a vacuum pickup area.

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 |

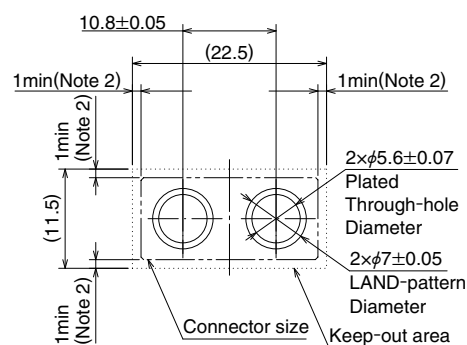
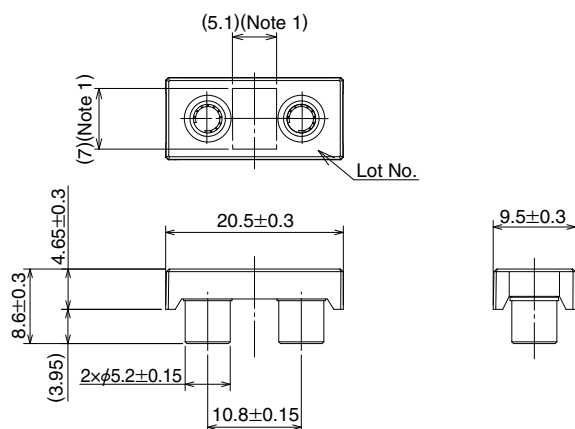
Note 1 : This area is a vacuum pickup area.

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.

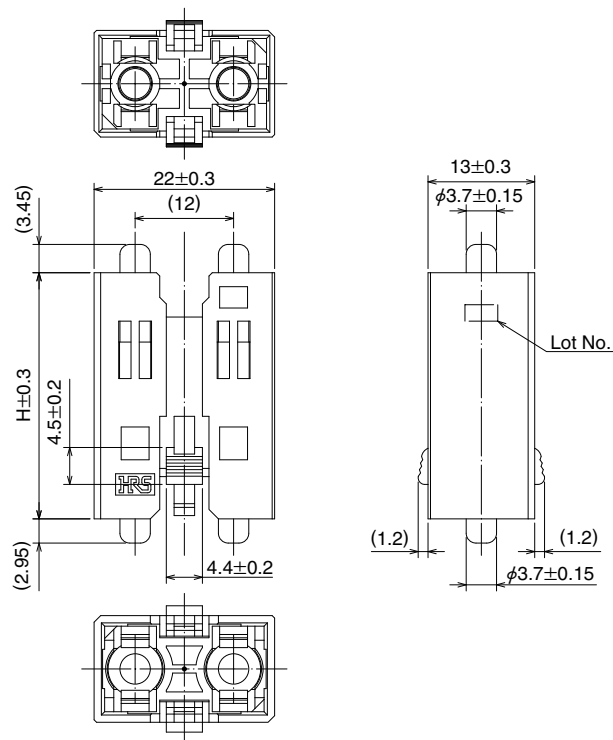
Note 5 : There is no latch for this receptacle.



Footprint

IT-P Series

■ Interposer with Housing

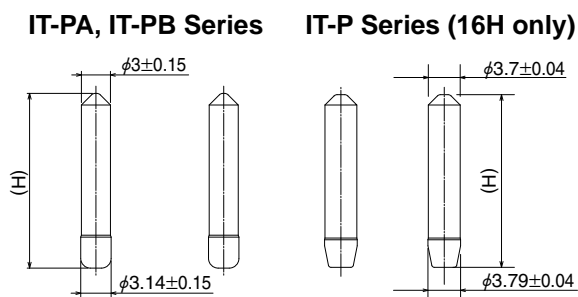


Unit : mm

| 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



Unit : mm

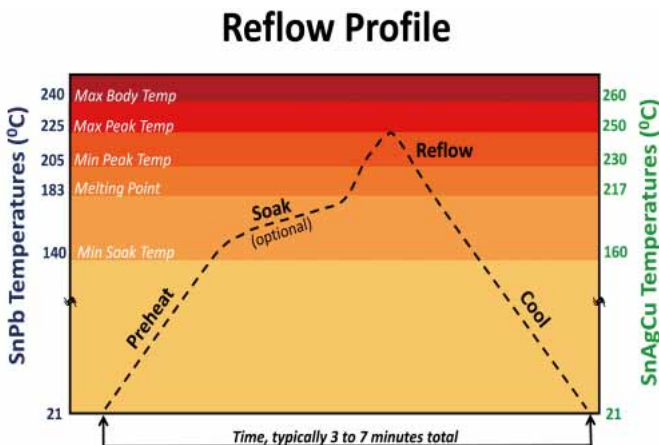
| Part No. | HRS No. | Stacking Height | H | Packing |
|------------------|---------------|-----------------|------|--------------|
| IT-PB-2P-10H(11) | 636-0632-0 11 | 10~11 | 16.5 | 50pairs/tray |
| IT-PB-2P-11H(11) | 636-0633-0 11 | 11~12 | 17.5 | |
| IT-PA-2P-14H(11) | 636-0613-9 11 | 14~15 | 18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

Note 1 : The larger side ($\phi 3.14$) or ($\phi 3.79$) 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 ($\phi 3$) or ($\phi 3.7$) does not have any locking mechanism.

1. Recommended Temperature Profile



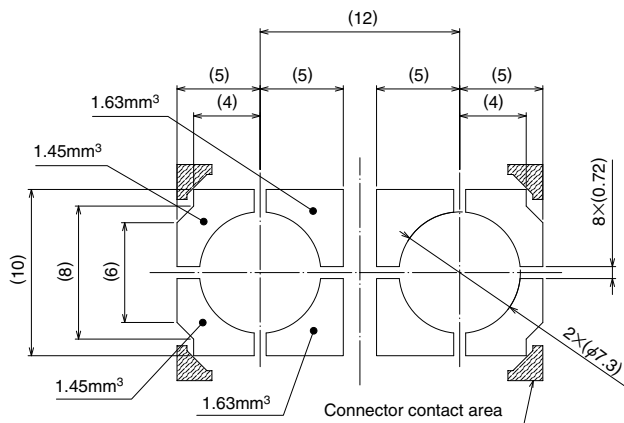
Note 1 : Values in this temperature profile are suggested values only.

Note 2 : IT-P receptacles are not compatible with the double-sided and inverted reflow.

| Parameters | Eutectic(SnPb) | Pb-Free | Comment |
|--|----------------|--------------|--|
| Preheat Ramp Rate | 2 - 3°C/sec | 2 - 3°C/sec | Other components may limit ramp rate to 2°C/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°C | 160 - 215°C | Caution-"oversoaking" may exhaust flux and affect soldering |
| Peak Reflow Temperature | 205 - 225°C | 230 - 250°C | 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°C/sec | >6°C/sec | Faster cooling rates produce finer grain structures and smoother joint appearances |
| Maximum Package Body Terminal (T) | 240°C | 260°C | Open body design allows for low delta T between package and solder joint |
| Maximum Delta between Body and PWB at Liquidus | 10°C | 10°C | 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 |

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

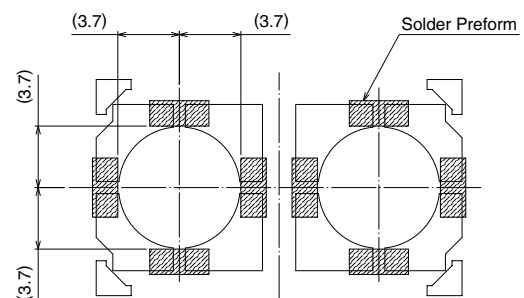
Dimensions For Recommended Net Solder Paste Volume



(1) Net solder paste volume : 10.9mm^3
 $= 12.32\text{mm}^3 \times (100 - 11.5)\%$
 <Calculation conditions>
 • Stencil thickness of 0.12mm
 • Flux content of 11.5%

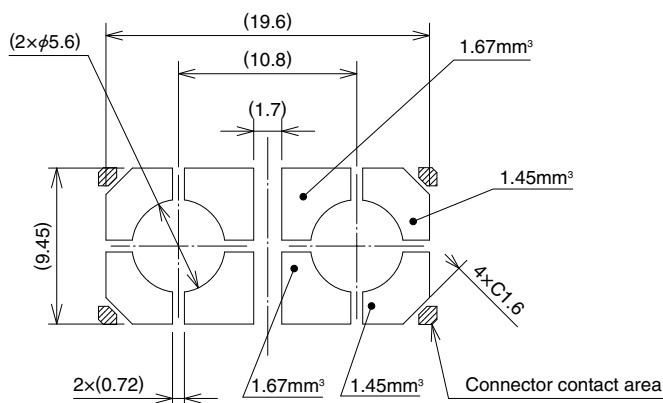
Dimensions For Recommended Solder Preform Placement

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

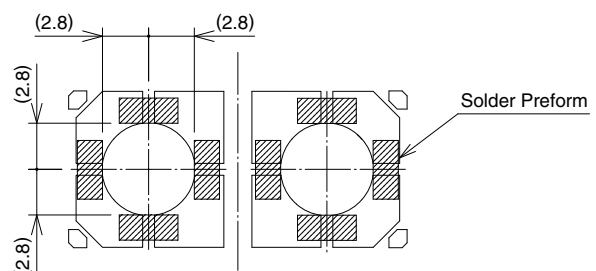


(2) Solder preform volume : 32.768mm³
 <Calculation conditions>
 • Recommended Preform Solder : SMIC Chip Solder S M705
 • Size : $3.2 \times 1.6 \times 0.8 = 4.096\text{mm}^3$
 • Quantity : 8 pcs

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



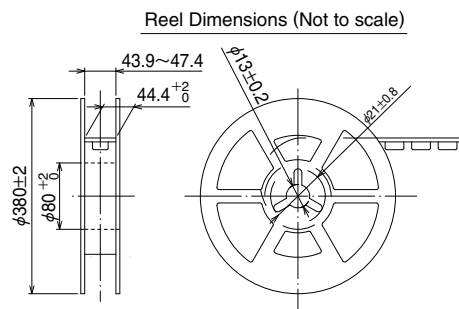
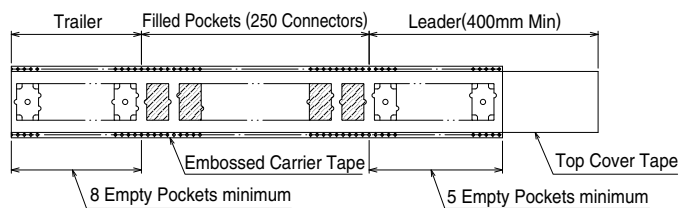
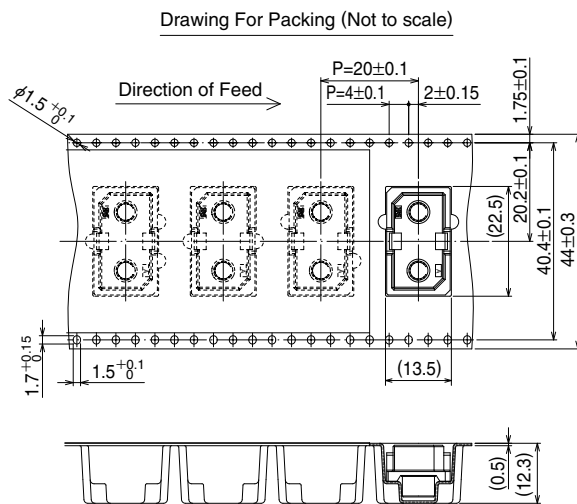
(1) Net solder paste volume : 11.05mm^3
 $= 12.48\text{mm}^3 \times (100-11.5)\%$
 <Calculation Conditions>
 • Stencil thickness is 0.12mm
 • Flux content rate is 11.5%



(2) Solder preform volume : 32.768mm³
 <Calculation conditions>
 • Recommended Preform Solder : SMIC Chip Solder S M705
 • Size : $3.2 \times 1.6 \times 0.8 = 4.096\text{mm}^3$
 • Quantity : 8 pcs

IT-P Series

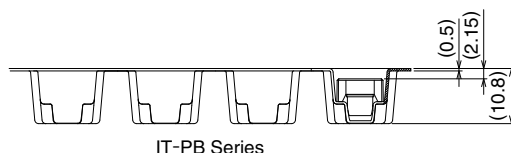
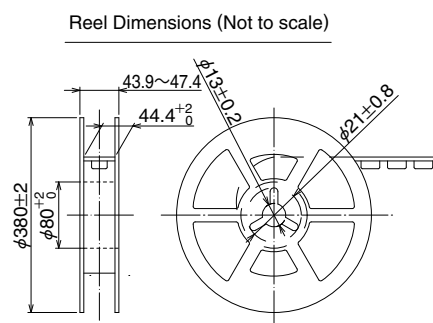
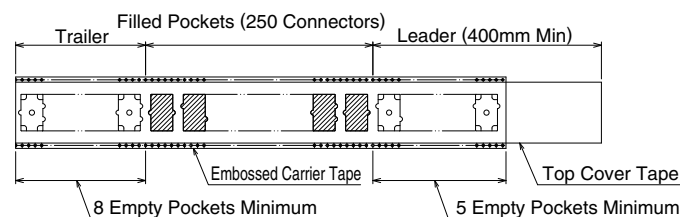
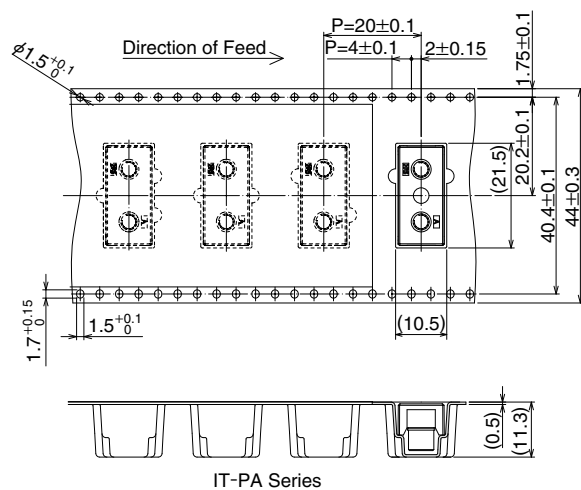
◆ Embossed Carrier Tape Dimensions



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

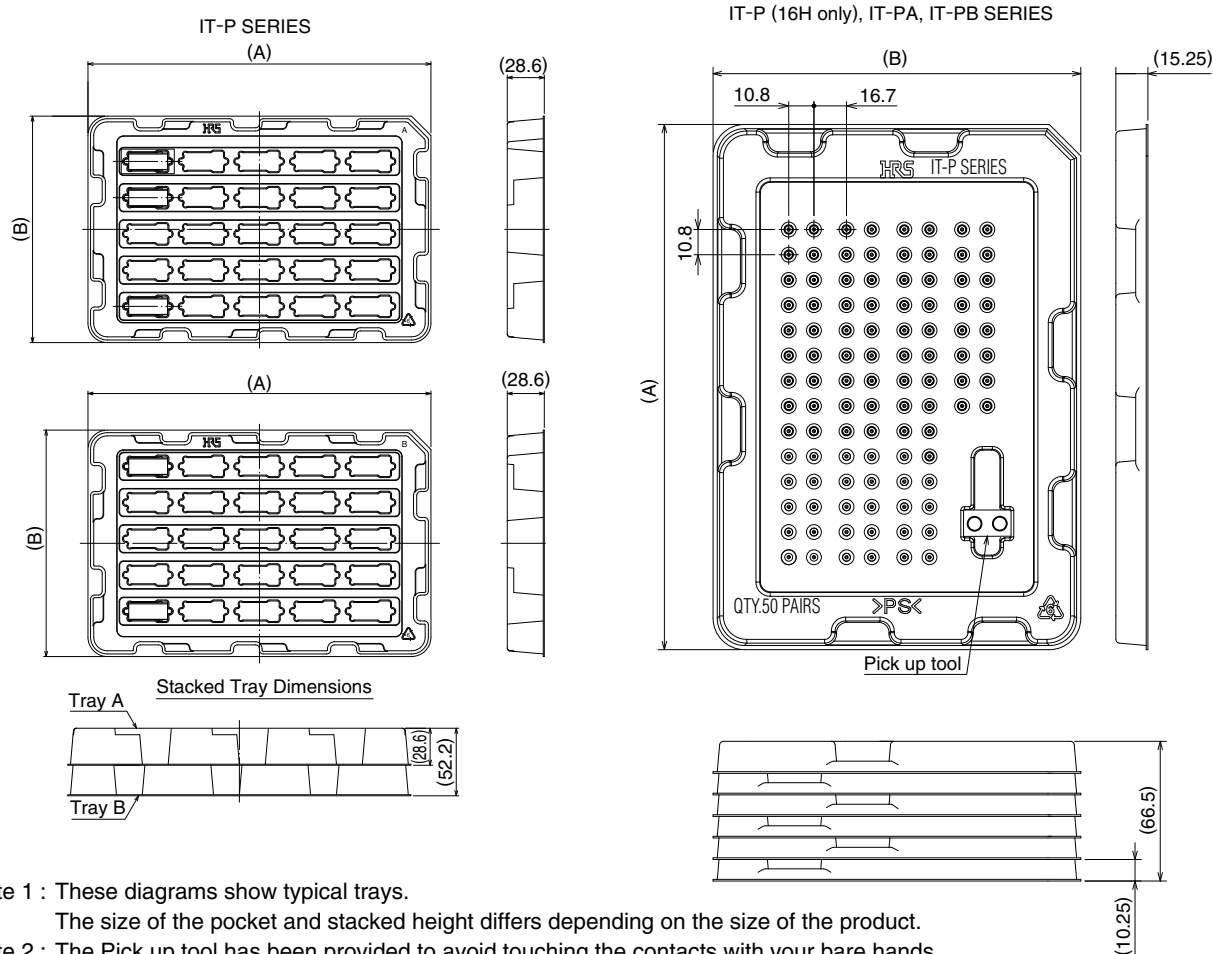
IT-PA and IT-PB Series

◆ Embossed Carrier Tape Dimensions



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

◆ 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 | 50 pcs | 150 | 355 | 255 |
| IT-P-2P-16H(11) | 636-0644-0 11 | | | | |
| IT-P-2P-21H(11) | 636-0618-2 11 | 56 pcs | 112 | 265 | 175 |
| IT-P-2P-23H(11) | 636-0610-0 11 | | | | |
| IT-P-2P-25H(11) | 636-0607-6 11 | 40 pcs | 120 | 355 | 255 |
| IT-P-2P-27H(11) | 636-0624-5 11 | | | | |
| IT-P-2P-29H(11) | 636-0615-4 11 | 28 pcs | 56 | | |
| IT-P-2P-35H(11) | 636-0602-2 11 | | | | |
| IT-P-2P-37H(11) | 636-0620-4 11 | 80 | | | |
| IT-P-2P-39H(11) | 636-0606-3 11 | | | | |
| IT-P-2P-41H(11) | 636-0619-5 11 | 80 | | | |
| IT-P-2P-43H(11) | 636-0621-7 11 | | | | |
| IT-P-2P-65H(11) | 636-0643-0 11 | | | | |

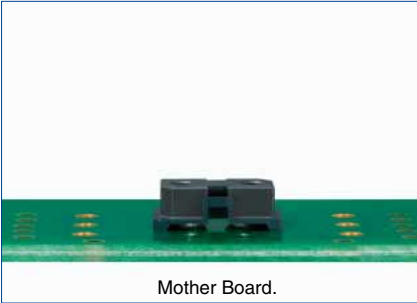
*16H is without housing case.

*1 pair = 2 contact pins

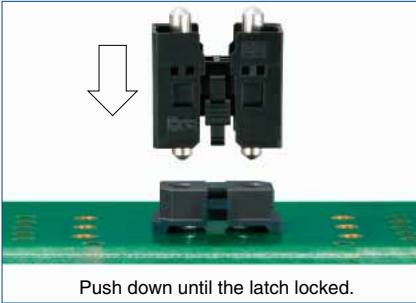
◆Installation

<IT-P Series>

① Solder the Receptacle



② Install Interposer



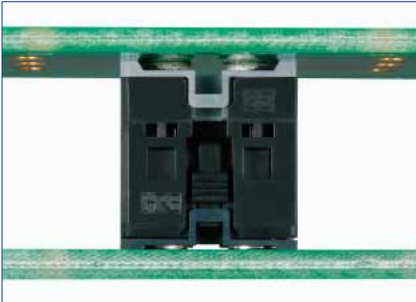
③ Interposer Installed



④ Install Daughter Card

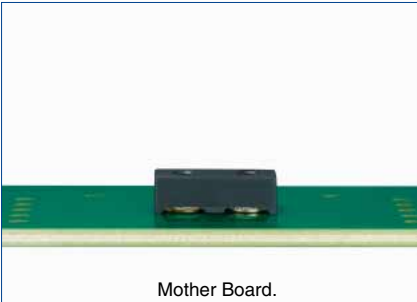


⑤ Mated

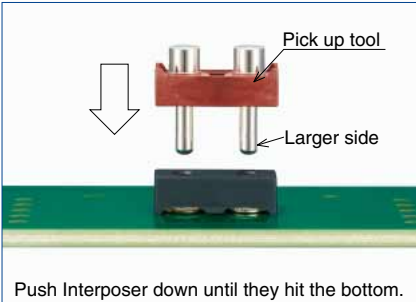


<IT-PA, IT-PB Series>

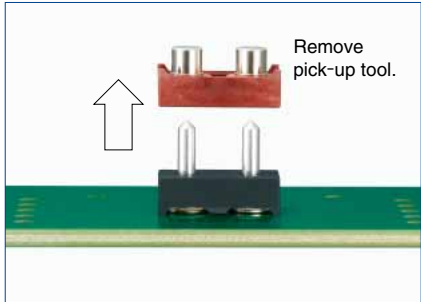
① Solder the Receptacle



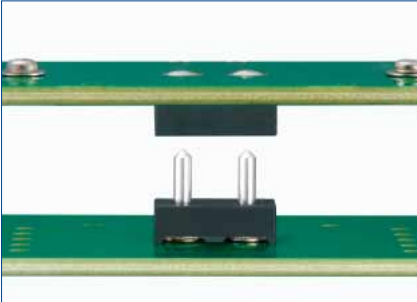
② Pick up the Interposer and install into the receptacle



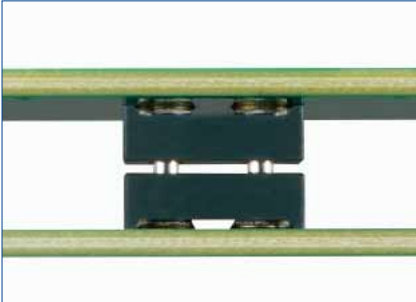
③ Interposer Installed



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.

MEMO :

Handwriting practice area consisting of multiple horizontal dashed lines.

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