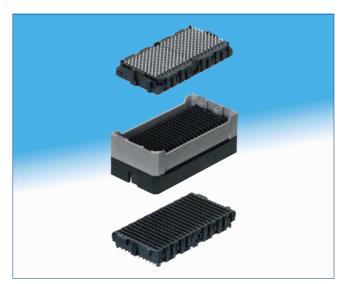
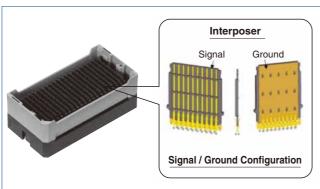
High-Speed(10+Gbps) BGA Mezzanine Connectors

IT3 Series





■Flexibility

Hirose's IT3 mezzanine connector system is as comfortable in today's data rates of PCIe and XAUI as it is in tomorrow's 10+Gbps systems. With the ability to transmit differential, singleended, and power through one package and being stackable from 14 - 40mm, IT3 can solve your interface needs for both current and future generations.

■Mechanical features

- Unique 3-piece structure for flexibility
- Stacking heights from 14 to 40mm
- Staggered 1.5mm × 1.75mm ball grid array
- Number of Contacts: 100, 200, &300 signals + 90% additional grounds
- Differential, single-ended, and power
- Low mating/extracting forces
- Wide misalignment tolerances for multiple connector use
- Both of SnPb and Pb-free are available
- Excellent reflow solderability
- IT3 is inter-mateable with IT5 Series

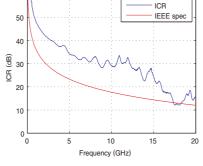
■Signal integrity features

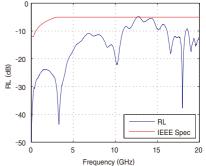
Insertion loss to Crosstalk Ratio (ICR)

The ICR performance meets the extrapolated IEEE 802.3ap specification for 6.25Gbps with fully-populated pin assignment, and 10+Gbps with skipped pin $\widehat{\underline{\theta}}_{30}$ assignment.

Return Loss

The differential return loss meets the extrapolated IEEE 802.3ap specification up to 12GHz.





■Stacking height variations

| | 2pi | ece | 3piece | | | | | | | | | | | |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------------|
| Stacking Height Contact Position | 14 mm | 15 mm | 17 mm | 18 mm | 20 mm | 22 mm | 25 mm | 26 mm | 28 mm | 30 mm | 32 mm | 35 mm | 38 mm | 40 mm |
| 100 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | * | ~ | ~ | / | $\overline{}$ |
| 200 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | * |
| 300 | ~ | ~ | ~ | / | ~ | ~ | ~ | ~ | / | ~ | ~ | / | / | $\overline{}$ |

*: Under planning

■Product Specifications

| | Current Rating: 1.0A / pin (note 1) | Operating Temperature Range: -55°C to +85°C |
|--------|--|--|
| Rating | Voltage Rating : 50Vrms | Operating Humidity Range: For relative humidity, |
| | Storage Temperature Range : -10°C to +60°C | 90% max (no condensation is permitted) |

| Item | Specification | Conditions |
|------------------------------------|--|---|
| 1. Insulation Resistance | 1000MΩ min. | 100V DC |
| 2. Withstanding Voltage | No flashover or insulation breakdown | 150V duty for 60 seconds (2mA max leak) |
| 3. Contact Resistance | $40m\Omega$ max. (height 14-15mm) $50m\Omega$ max. (height 17-24mm) (note 2) $55m\Omega$ max. (height 25-32mm) (note 2) $60m\Omega$ max. (height 33-40mm) (note 2) | 100mA |
| 4. Vibration | 1) No electrical discontinuity of $1\mu s$ or more 2) No damage, crack, or loose part | Frequency: 50 to 2000Hz; power spectrum density: 0.1G²/Hz for 90 minutes in three directions |
| 5. Cyclic Temperature and Humidity | Contact resistance change: 20mΩ or less No damage, crack or loose part | 25°C, 80% RH : 60 min dwell time, 30 min ramp time 65°C, 50% RH : 60 min dwell time under 24 cycles |
| 6. Durability (Mating/Un-mating) | 1) Contact resistance change: 20mΩ or less 2) No damage, crack or loose part | 100 cycles |

Note1: Refer to IT3 derating curves on test report TR636E-20041 for power application.

Note2: The value of contact resistance includes 2 contact points and the bulk resistance.

■Materials / Finish

Receptacle

| Component | Material | Finish & Remarks | | | |
|-----------------------------------|----------------------------------|---|--|--|--|
| Housing(Mounting Side) | LCP | Black , UL 94V-0 | | | |
| Housing(Detachable / Mating Side) | LCP | Gray , UL 94V-0 | | | |
| Locator | LCP | Black , UL 94V-0 | | | |
| Contact | Copper Alloy | Contact Area : Gold (0.76 μ m) over Nickel (1.5 μ m) Mounting Area : Gold (0.05 μ m) over Nickel (1.5 μ m) Other : Nickel (1.5 μ m) | | | |
| Solder Ball | Tin-Lead (SnPb) Tin (Pb-Free) | Sn(63)-Pb(37) Sn(96.5)-Ag(3)-Cu(0.5) | | | |
| Tray | Polystyrene | Black | | | |
| Pick Up Cap | Stainless steel | 300pos | | | |
| Pick Up Tape | Paper (Nomex) | 100pos and 200pos | | | |

Interposer

| • | | | | | |
|--------------------------------|---------------|--|--|--|--|
| Component | Material | Finish & Remarks | | | |
| Guide (Mounting Side) | PBT | Black , UL 94V-0 | | | |
| Guide (Detachable/Mating Side) | LCP | Gray , UL 94V-0 | | | |
| Guide (Detachable/Mating Side) | PBT | Gray , UL 94V-0 | | | |
| Blade | LCP | Black , UL 94V-0 | | | |
| Contact | Copper Alloy | Contact Area : Gold (0.76 μm) over Nickel (1.5 μm) | | | |
| Ground Shield | Copper Alloy | Other : Nickel (1.5 µm) | | | |
| Tray | Polypropylene | | | | |

●Plug

| Component | Material | Finish & Remarks |
|-------------|----------------------------------|---|
| Housing | LCP | Black , UL 94V-0 |
| Locator | LCP | Black , UL 94V-0 |
| Contact | Copper Alloy | Contact Area : Gold (0.76 μ m) over Nickel (1.5 μ m) Mounting Area : Gold (0.05 μ m) over Nickel (1.5 μ m) Other : Nickel (1.5 μ m) |
| Solder Ball | Tin-Lead (SnPb) Tin (Pb-Free) | Sn(63)-Pb(37) Sn(96.5)-Ag(3)-Cu(0.5) |
| Tray | Polystyrene | Blue |
| Pick Up Cap | Stainless steel | 100pos, 200pos and 300pos |

■Product Number Structure

Refer to the chart below when determining the product specifications from the product number. Please select from the product numbers listed in this catalog when placing orders.

Receptacle

Interposer

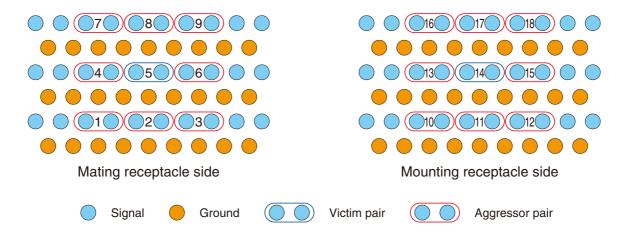
Plug

| Series name : IT3 | Material and Plating Specification of Mounting Receptacle, plug | | | | |
|---|---|--|--|--|--|
| 2 Receptacle Type | Housing: Black | | | | |
| D : Mating Receptacle | (37): Pb-free Solder Sn(96.5)-Ag(3.0)-Cu(0.5) | | | | |
| D* : Mating Receptacle (Customized) | Contact Area : Au(0.76 μ m)+Ni(1.5 μ m) | | | | |
| M : Mounting Receptacle | (57): Eutectic Solder Sn(63)-Pb(37) | | | | |
| M* : Mounting Receptacle (Customized) | Contact Area : Au(0.76µm)+Ni(1.5µm) | | | | |
| Interposer Type | Material and Plating Specification of Mating Receptacle | | | | |
| Blank : Standard | Housing: Glay | | | | |
| ** : Customized | (39): Pb-free Solder Sn(96.5)-Ag(3.0)-Cu(0.5) | | | | |
| Plug Type | Contact Area : Au(0.76 μ m)+Ni(1.5 μ m) | | | | |
| M : Plug | (59): Eutectic Solder Sn(63)-Pb(37) | | | | |
| M* : Plug (Customized) | Contact Area : Au(0.76µm)+Ni(1.5µm) | | | | |
| 3 Contact Positions: 100, 200, 300 | Stacking Height (mm) | | | | |
| Connector type | 14, 15, 17, 18, 20, 22, 25, 26, 28, 30, 32, 35, 38, 40 | | | | |
| S : Receptacle | Plug : 14, 15 | | | | |
| P : Interposer , Plug | Interposer: 17, 40 | | | | |
| 5 BGA : Ball Grid Array | Plating Specification of Interposer | | | | |
| 6 Package Specification | (03), (04) : Contact Area : Au(0.76μm)+Ni(1.5μm) | | | | |
| Blank : Standard | | | | | |
| **: Customized | | | | | |

■Signal Integrity

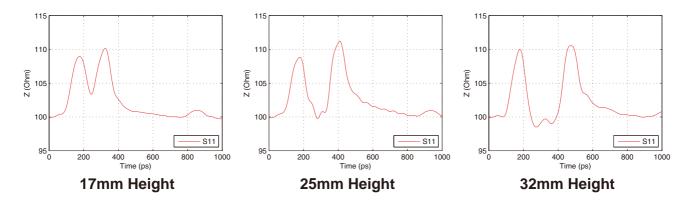
Pin assignment

For the fully-populated pin assignment, adjacent pins are grouped into differential pairs as shown in the figures below. In the following data, one victim pair and eight aggressor pairs are included.



●Impedance profile at 60ps rise time (20-80%)

The impedance profiles (of connector only) for the center pair are shown below. The IT3 receptacles are designed with higher impedance to offset the via's low impedance.

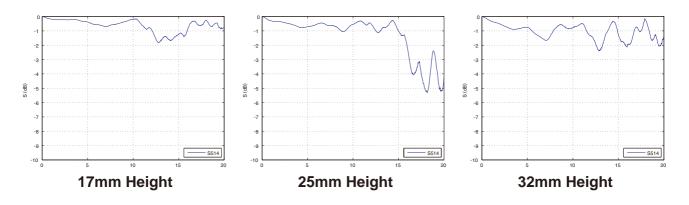


Differential propagation delay

| Stacking Height (mm) | 17 | 25 | 32 |
|----------------------|--------|--------|--------|
| Delay (ps) | 101.05 | 146.69 | 188.48 |

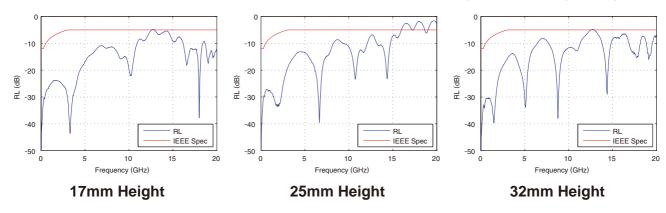
Differential Insertion Loss

The differential insertion loss is less than -2dB up to 12GHz.



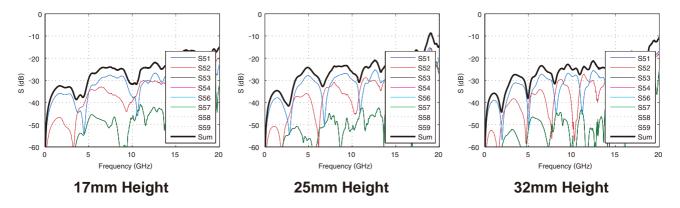
Differential Return Loss

The connector-only differential return loss for the center pair meets the extrapolated IEEE 802.3ap spec up to 12GHz. (The attenuation of PCB traces in the channel will give an even larger margin.)



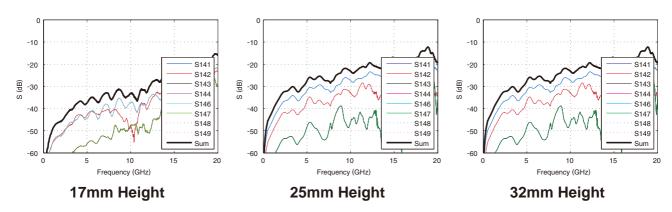
Differential Near-End Crosstalk (NEXT)

The near-end crosstalk at the center pair from surrounding 8 aggressors is shown below. The NEXT is not as critical because TX and RX can be grouped into separate wafers.



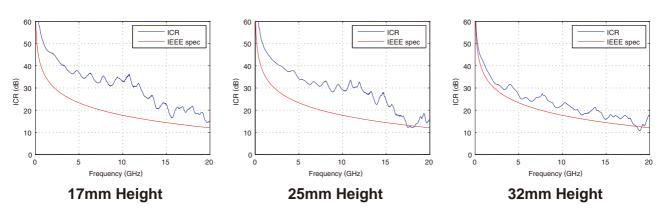
Differential Far-End Crosstalk (FEXT)

Low far-end crosstalk at the center pair from surrounding 8 aggressors is observed. Even lower crosstalk can be achieved by skipping pins.



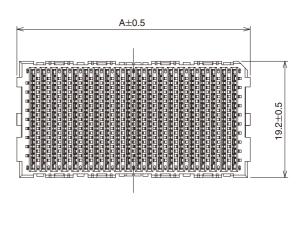
●Insertion-Loss-to-Crosstalk-Ratio (ICR) for FEXT

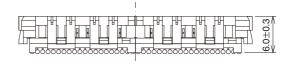
The insertion-loss-to-crosstalk-ratio (ICR) for 8-aggressor FEXT meets the extrapolated IEEE 802.3ap specification up to 12GHz.



■Receptacle







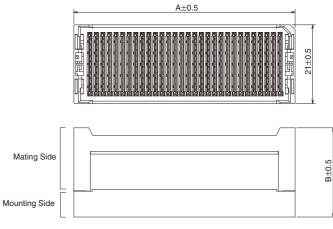
Shown: 200 position mounting receptacle, IT3M-200S-BGA

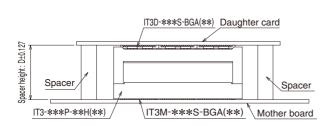
*Unit : mm

| Contact Positions | Туре | Solder Ball Material | Part No. | HRS No. | Α |
|----------------------------------|------------|-------------------------|-------------------|---------------|------|
| | Mating | Pb-free (SAC305) solder | IT3D-100S-BGA(39) | 636-0013-1 39 | |
| 100 | Receptacle | SnPb solder | IT3D-100S-BGA(59) | 636-0013-1 59 | 21.0 |
| (100 signals/90 grounds) | Mounting | Pb-free (SAC305) solder | IT3M-100S-BGA(37) | 636-0014-4 37 | 21.0 |
| | Receptacle | SnPb solder | IT3M-100S-BGA(57) | 636-0014-4 57 | |
| | Mating | Pb-free (SAC305) solder | IT3D-200S-BGA(39) | 636-0003-8 39 | |
| 200 | Receptacle | SnPb solder | IT3D-200S-BGA(59) | 636-0003-8 59 | 38.5 |
| (200 signals/180 grounds) | Mounting | Pb-free (SAC305) solder | IT3M-200S-BGA(37) | 636-0004-0 37 | |
| | Receptacle | SnPb solder | IT3M-200S-BGA(57) | 636-0004-0 57 | |
| | Mating | Pb-free (SAC305) solder | IT3D-300S-BGA(39) | 636-0007-9 39 | |
| 300 (300 signals/270 grounds) | Receptacle | SnPb solder | IT3D-300S-BGA(59) | 636-0007-9 59 | 56.0 |
| | Mounting | Pb-free (SAC305) solder | IT3M-300S-BGA(37) | 636-0008-1 37 | 50.0 |
| | Receptacle | SnPb solder | IT3M-300S-BGA(57) | 636-0008-1 57 | |

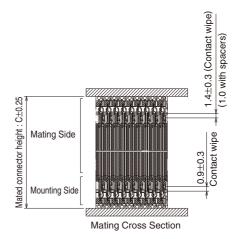
■Interposer







Mating condition with spacers



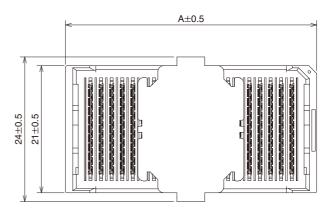
Mating condition without spacers

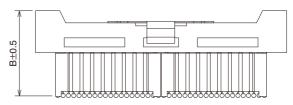
*Unit: mm

| Height (mm) | Part No. | HRS No. | Α | В | С | D | Height (mm) | Part No. | HRS No. | Α | В | С | D |
|-------------|------------------|---------------|------|------|------|------|-------------|------------------|---------------|------|------|------|------|
| | IT3-100P-17H(04) | 636-0265-4 04 | 24.0 | | | | | IT3-100P-28H(04) | 636-0170-0 04 | 24.0 | | | |
| 17 | IT3-200P-17H(04) | 636-0100-4 04 | 41.5 | 15.8 | 16.6 | 17.0 | 28 | IT3-200P-28H(04) | 636-0105-8 04 | 41.5 | 26.8 | 27.6 | 28.0 |
| | IT3-300P-17H(04) | 636-0130-5 04 | 59.0 | | | | | IT3-300P-28H(04) | 636-0140-9 04 | 59.0 | | | |
| | IT3-100P-18H(03) | 636-0250-7 03 | 24.0 | | | | 30 | IT3-200P-30H(04) | 636-0180-3 04 | 41.5 | 20 0 | 20.6 | 30.0 |
| 18 | IT3-200P-18H(03) | 636-0252-2 03 | 41.5 | 16.8 | 17.6 | 18.0 | 30 | IT3-300P-30H(04) | 636-0185-7 04 | 59.0 | 20.0 | 29.0 | 30.0 |
| | IT3-300P-18H(03) | 636-0254-8 03 | 59.0 | | | | | IT3-100P-32H(04) | 636-0266-7 04 | 24.0 | | | |
| | IT3-100P-20H(03) | 636-0223-4 03 | 24.0 | | | | 32 | IT3-200P-32H(04) | 636-0115-1 04 | 41.5 | 30.8 | 31.6 | 32.0 |
| 20 | IT3-200P-20H(03) | 636-0224-7 03 | 41.5 | 18.8 | 19.6 | 20.0 | | IT3-300P-32H(04) | 636-0145-2 04 | 59.0 | | | |
| | IT3-300P-20H(03) | 636-0225-0 03 | 59.0 | | | | | IT3-100P-35H(03) | 636-0239-4 03 | 24.0 | | | |
| | IT3-100P-22H(03) | 636-0264-1 03 | 24.0 | | | | 35 | IT3-200P-35H(03) | 636-0240-3 03 | 41.5 | 33.8 | 34.6 | 35.0 |
| 22 | IT3-200P-22H(03) | 636-0209-3 03 | 41.5 | 20.8 | 21.6 | 22.0 | | IT3-300P-35H(03) | 636-0241-6 03 | 59.0 | | | |
| | IT3-300P-22H(03) | 636-0210-2 03 | 59.0 | | | | | IT3-100P-38H(03) | 636-0200-9 03 | 24.0 | | | |
| | IT3-100P-25H(04) | 636-0150-2 04 | 24.0 | | | | 38 | IT3-200P-38H(03) | 636-0195-0 03 | 41.5 | 36.8 | 37.6 | 38.0 |
| 25 | IT3-200P-25H(04) | 636-0155-6 04 | 41.5 | 23.8 | 24.6 | 25.0 | | IT3-300P-38H(03) | 636-0190-7 03 | 59.0 | | | |
| | IT3-300P-25H(04) | 636-0160-6 04 | 59.0 | | | | 40 | IT3-100P-40H(03) | 636-0230-0 03 | 24.0 | 20 0 | 20.6 | 40.0 |
| | IT3-100P-26H(04) | 636-0165-0 04 | 24.0 | | | | 40 | IT3-300P-40H(03) | 636-0175-3 03 | 59.0 | 30.0 | 39.0 | 40.0 |
| 26 | IT3-200P-26H(04) | 636-0110-8 04 | 41.5 | 24.8 | 25.6 | 26.0 | 5.0 | | | | | | |
| | IT3-300P-26H(04) | 636-0135-9 04 | 59.0 | | | | | | | _ | _ | | |

■Plug





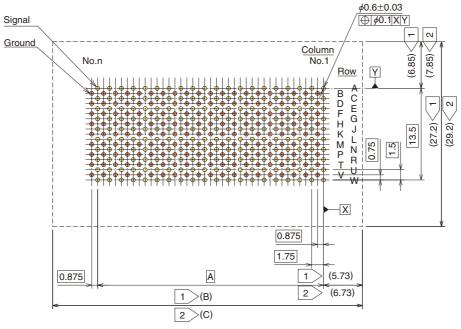


Shown: 200 position mounting plug, IT3M-200P-15BGA

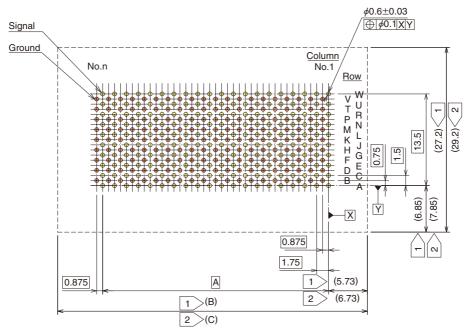
*Unit : mm

| Height (mm) | Solder Ball Material | Part No. | HRS No. | А | В |
|-------------|------------------------|------------------------------|---------------|------|-------|
| | | IT3M-100P-14BGA(37) | 636-0511-9 37 | 24.0 | |
| 14 | Pb-Free(SAC305) solder | IT3M-200P-14BGA(37) | 636-0508-4 37 | 41.5 | 13.15 |
| | | IT3M-300P-14BGA(37) | 636-0507-1 37 | 59.0 | |
| | Pb-Free(SAC305) solder | IT3M-100P-15BGA(37) | 636-0504-3 37 | 24.0 | |
| | Sn-Pb solder | der IT3M-100P-15BGA(57) 636- | | 24.0 | |
| 15 | Pb-Free(SAC305) solder | IT3M-200P-15BGA(37) | 636-0505-6 37 | /1 E | 14.15 |
| 15 | Sn-Pb solder | IT3M-200P-15BGA(57) | 636-0505-6 57 | 41.5 | 14.15 |
| | Pb-Free(SAC305) solder | IT3M-300P-15BGA(37) | 636-0506-9 37 | 59.0 | |
| | Sn-Pb solder | IT3M-300P-15BGA(57) | 636-0506-9 57 | 59.0 | |

● PCB footprint (mounting foot pattern)



Mounting Receptacle - IT3M Plug



Mating Receptacle - IT3D

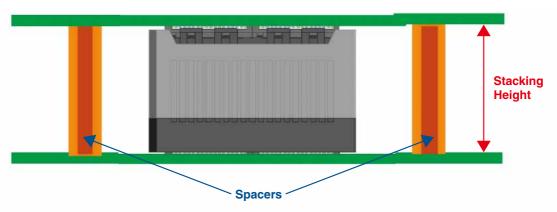
- >Minimum clearance for all devices
- >Minimum clearance for sensitive devices

*Unit: mm

| Dimension | 100 | 200 | 300 |
|-----------|-------|-------|-------|
| Α | 15.75 | 33.25 | 50.75 |
| В | 28.10 | 45.60 | 63.10 |
| С | 30.10 | 47.60 | 65.10 |

◆ Spacers

Spacers are required to support the PWB's and protect the BGA solder joints.



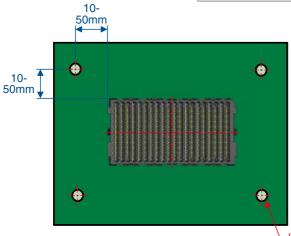
Suggested spacer style is shown below:



Spacer, male-male, M3 thread

The recommended spacer height corresponds to the interposer stacking height as shown in the chart below:

| Stacking Height | Recommended Spacer Height |
|-----------------|---------------------------|
| 14 mm | 14 +/-0.127 mm |
| 15 mm | 15 +/-0.127 mm |
| 17 mm | 17 +/-0.127 mm |
| 18 mm | 18 +/-0.127 mm |
| 20 mm | 20 +/-0.127 mm |
| 22 mm | 22 +/-0.127 mm |
| 25 mm | 25 +/-0.127 mm |
| 26 mm | 26 +/-0.127 mm |
| 28 mm | 28 +/-0.127 mm |
| 30 mm | 30 +/-0.127 mm |
| 32 mm | 32 +/-0.127 mm |
| 35 mm | 35 +/-0.127 mm |
| 38 mm | 38 +/-0.127 mm |
| 40 mm | 40 +/-0.127 mm |



Recommended Spacer Location

Two spacers located diagonally are minimally required. Some applications may require 4 spacers. Spacers should be located 10 – 50 mm from the corners of the receptacles to prevent excessive mechanical loading on the interconnections. If assembly will be subjected to vibration, spacers should be located to prevent resonance, and additional spacers may be required.

Non plated through hole

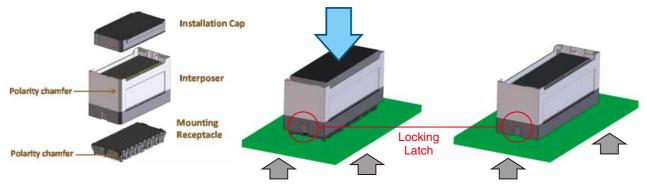
Interposer installation

Position interposer directly over mounting receptacle, aligning the polarity chamfers. If positioned properly, the interposer should slide easily onto the mounting receptacle. Place installation cap onto interposer and push straight down to engage the locking latches.

Manual Installation

*Installation caps are available upon request for manual operation

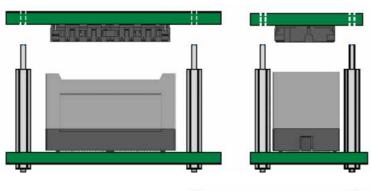
Press firmly on installation cap only, not on wafers or interposer body



Always support PWB from underside to prevent flexing

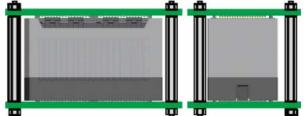
● Daughter card installation

After the interposer is mounted, install spacers onto motherboard. To install mating receptacle, align the spacer holes in the daughter card with the threads on the spacers.



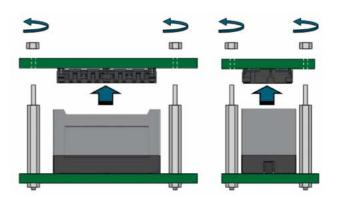
The spacers help align the mating receptacle with the interposer. If positioned correctly, the mating receptacle will slip down into the interposer.

Push directly down on the assembly to lock the mating receptacle in place. Install nuts onto the spacer threads. Tighten nuts to specified torque.



◆ Daughter card removal

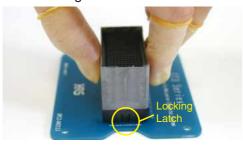
To remove a daughter card, first remove the nuts from the reinforcing spacers, then lift the daughter card straight off the interposers, as shown right.



◆Interposer removal

Interposer Removal by Hand

1) Hold the Interposer Assembly on the walls without locking latches



3) While gently rotating, pull up on other side of the Interposer Assembly

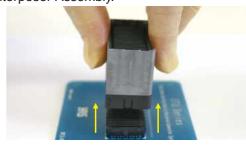


2) Gently rotate one side of the Interposer Assembly laterally 10° maximum



Caution: do not rotate more than 10 degrees

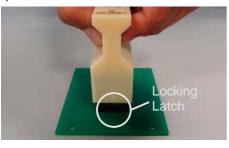
4) The Interposer Assembly is removed, and the Mounting Receptacle is ready to accept another Interposer Assembly.



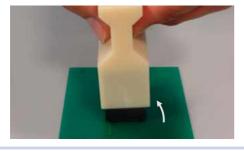
An interposer removal tool is also available. This tool is not an interposer installation cap, so please do not use it to install an interposer. Doing so may damage an interposer.

Interposer Removal with Tool

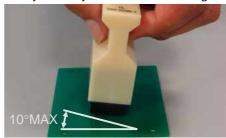
Cover the interposer Assembly with the interposer removal tool



While gently rotating, pull up on other side of the tool

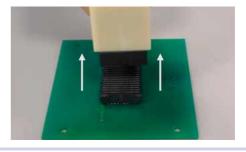


2) Gently rotate one side of the Interposer Assembly laterally 10° maximum using the tool



Caution: do not rotate more than 10 degrees

4) The Interposer Assembly is removed, as it is inside the tool



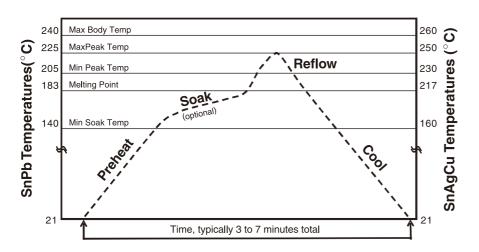
Precaution

Visually inspect the interposer before reinstalling it. Discard if it shows any sign of damage or wear. Do not subject the interposer assembly to more than five removal-reinstallation cycles, even if it appears unaffected.

● Assembly reflow soldering profile

| Parameters | Eutectic (SnPb) | Pb-Free | Comment |
|--|-----------------|--------------|--|
| Preheat Ramp Rate | 2 - 3°C/sec | 2 - 3℃/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℃ | 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°C/sec | Faster cooling rates produce finer grain structures and smoother joint appearances |
| Maximum Package Body Temperature (T) | 240℃ | 260℃ | Open body design allows for low delta T between package and solder joint |
| Maximum Delta T 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 |

Reflow Profile

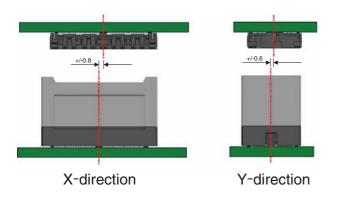


Different solder pastes have different thermal performance characteristics. Consult with paste manufacturer for optimum profile settings.

Check thermal exposure limits of PWB laminate if processing with Pb-free solder.

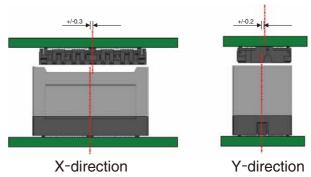
Mating self alignment

*Unit: mm



● Mating tolerance

Due to its 3-piece design, the IT3 connector system can accept mating tolerances of up to ±0.3mm tolerance in the X-axis and up to ±0.2mm in the Y-axis.



Packaging information

Please order per box with its Minimum Order Quantity (MOQ) of connectors contained. The number for each configuration is shown below.

Receptacles

IT $\frac{3*}{(1)}$ - $\frac{***S}{(2)}$ - BGA(**)

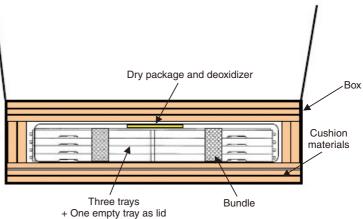
Unit: pcs (2)100 200 300 (1)72 48 Μ 120 48 D 120 72

Plug

IT
$$\frac{3*}{(1)}$$
 - $\frac{***P}{(2)}$ - BGA(**)

This is also a packaging quantity, therefore please multiply integrally based on this MOQ quantity when you place more.

Ex.) 240pcs of IT3M-300S-BGA(57) (= 5 of vacuum packed boxes)



● Packaging information

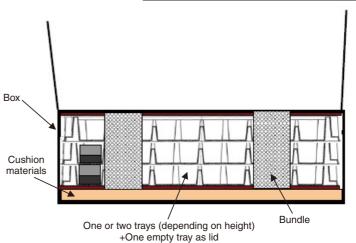
Interposers

IT 3 -
$$\frac{***P}{(3)}$$
 - $\frac{**}{(4)}$ H(**)

Unit: pcs

| (3) | 100 | 200 | 300 |
|-----|-----|-----|-----|
| 17 | 100 | 80 | 60 |
| 18 | 100 | 80 | 60 |
| 20 | 100 | 80 | 60 |
| 22 | 100 | 80 | 60 |
| 25 | 100 | 80 | 60 |
| 26 | 100 | 80 | 60 |
| 28 | 50 | 40 | 30 |
| 30 | | 40 | 30 |
| 32 | 50 | 40 | 30 |
| 35 | 50 | 40 | 30 |
| 38 | 50 | 40 | 30 |
| 40 | 50 | | 30 |

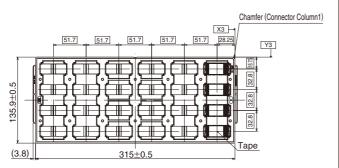
This is also a packaging quantity, therefore please multiply integrally based on this MOQ quantity when you place more.



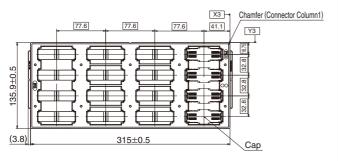
●Tray information

135.9 ± 0.5 (3.8)

JEDEC Tray for IT3M 100 Position Receptacles and plug

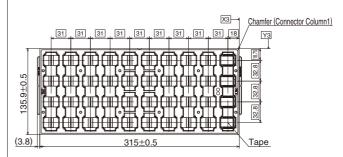


JEDEC Tray for IT3M 200 Position Receptacles and plug

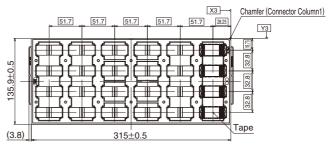


JEDEC Tray for IT3M 300 Position Receptacles and plug

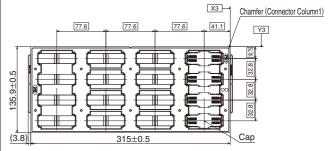
●Tray information (con't)



JEDEC Tray for IT3D 100 Position Receptacles



JEDEC Tray for IT3D 200 Position Receptacles



JEDEC Tray for IT3D 300 Position Receptacles

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