

ER8 Series

PCIe Gen.4 High Speed Transmission (16⁺Gbps), 0.8mm Pitch, Board-to-Board Connectors

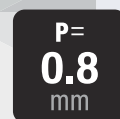
FunctionMAX™



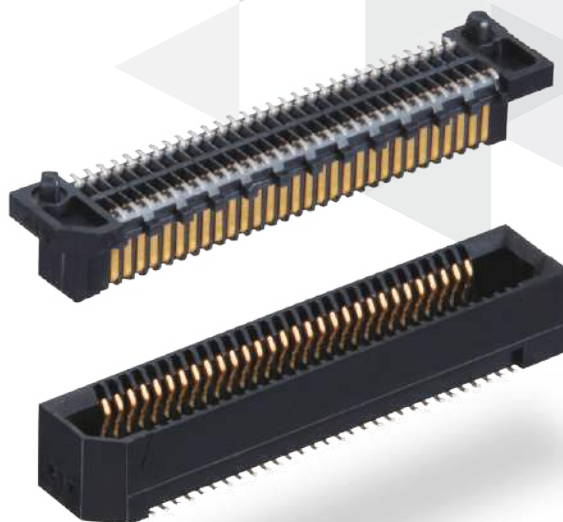
High Speed



Wide Variation



P= 0.8mm



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Features

1. Pitch : 0.8mm
2. Variations :
Right Angle / Parallel / Coplanar
3. Stacking Height :
7/9/10/12mm
4. Number of Positions :
10/20/30/40/50/60
70/80/100/120/140pos.
5. Large Guide for Easy Mating

Self-alignment Range: ± 1.6 mm
6. Unique Contact Design for Smooth Mating
7. Samtec “Edge Rate[®]”
Licensed Second Source

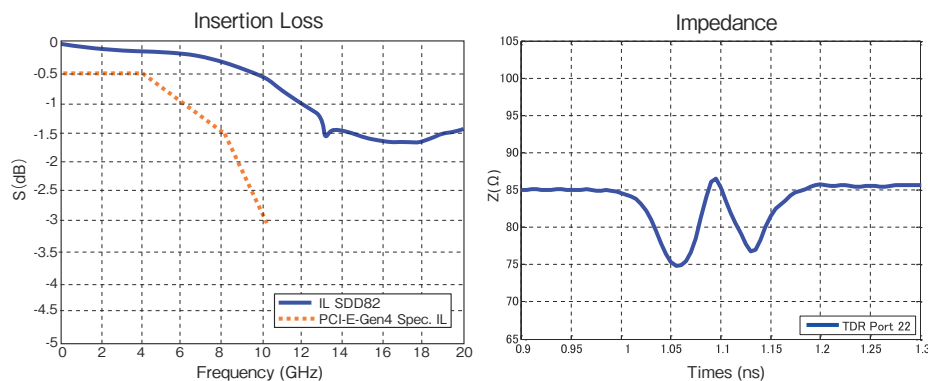
High Speed Transmission Characteristics

● Differential Insertion Loss

Supports PCIe Gen.4 with sufficient margin.

● Differential Impedance

85Ω (Tr=35ps, 20%-80%)



Product Specification

| | | | |
|------------------------|---------------|--------------------------------|---------------|
| Rated Current (Note 1) | 0.5A (Signal) | Operating Temperature (Note 2) | -55 to +125°C |
| Rated Voltage | 100V AC | Storage Temperature (Note 3) | -10 to +60°C |

| Item | Specifications | Conditions |
|-----------------------|--|--|
| Contact Resistance | 50mΩ Max. | 100mA |
| Insulation Resistance | 1000MΩ Min. | 100V DC |
| Withstanding Voltage | No flashover or insulation breakdown | 300V AC for 1 min. |
| Mating Durability | Contact resistance change : 15mΩ Max. No flash over or insulation breakdown. No damage, cracks or part dislocation. | 100 times |
| Vibration Resistance | No electrical discontinuity of 1 μs Min. | Frequency : 20 to 500Hz, Power spectral density : 0.02G ² /Hz 3 times in each of the 3 directions |
| Shock Resistance | No electrical discontinuity of 1 μs Min. | 980m/s ² , Duration of pulse 6ms, 90 minutes each of 3-axis direction |
| Temperature Cycles | Contact resistance change : 15mΩ Max. Insulation resistance : 1000MΩ Min. No flashover or insulation breakdown No damage, cracks or part dislocation. | 25°C , 90-95% RH : 120 min. ↑ ↓ 120 min. 65°C , 90-95% RH : 120 min. 12 times |

Note 1 : Current rating per 1 contact is used.

Note 2 : Includes temperature rise due to current flow.

Note 3 : The term "storage" refers to products stored for long period of time prior to mounting and use.

Note 4 : Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

Materials / Finish

● Straight Receptacle / Header

| Component | Material | Color / Finish | Remarks |
|----------------|--------------|--|---------|
| Insulation | LCP | Black | UL94V-0 |
| Signal Contact | Copper Alloy | Contact Area : Gold Plating Mounting Area : Tin Plating | — |

● Right Angle Receptacle / Header

| Component | Material | Color / Finish | Remarks |
|----------------|--------------|--|---------|
| Insulation | LCP | Black | UL94V-0 |
| Signal Contact | Copper Alloy | Contact Area : Gold Plating Mounting Area : Tin Plating | — |
| Retention Peg | Copper Alloy | Mounting Area : Tin Plating | — |
| Retention Pin | Copper Alloy | Mounting Area : Tin Plating | — |

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.

■ Straight Header

■ Straight Receptacle

ER8 # - ### # - 0.8 SV - #H (##)

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

■ Right Angle Header

■ Right Angle Receptacle

ER8 # - ### # - 0.8 SH (##)

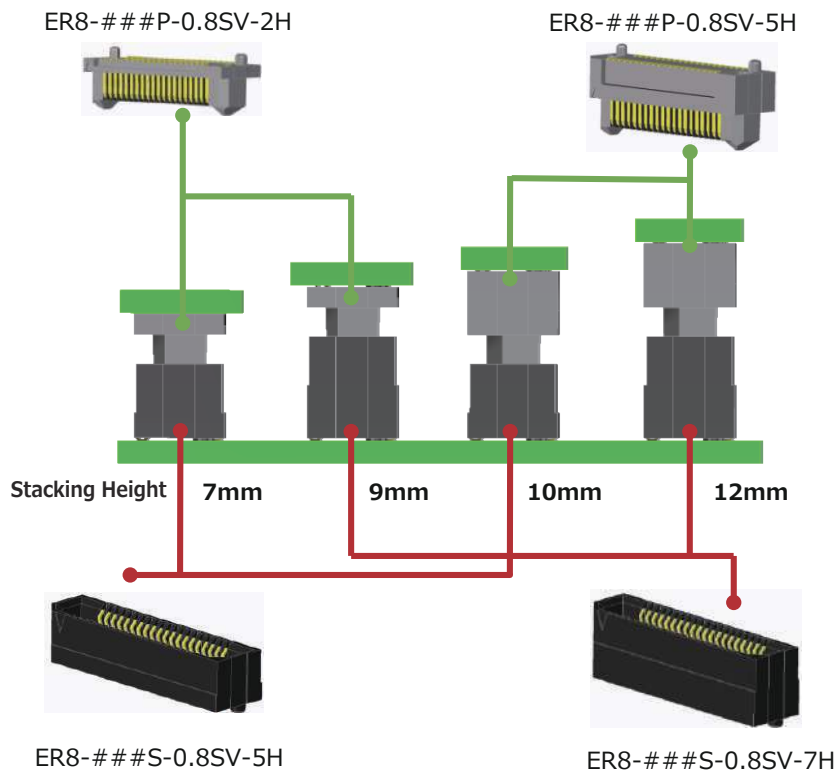
① ② ③ ④ ⑤ ⑥ ⑧

| | | | |
|------------------|---|-------------------------|---|
| ① Series Name | ER8 | ⑤ Contact Pitch | 0.8mm |
| ② Specification | Blank : Standard Product L : With Latch (140pos. only) | ⑥ Contact Type | SV : Straight Type SH : Right Angle Type |
| ③ No. of Pos. | 10-140 | ⑦ Height | 2, 5 : Header 5, 7 : Receptacle |
| ④ Connector Type | S : Receptacle P : Header | ⑧ Plating Specification | Blank : Contact Area Gold (0.76 μm) +Ni (2.54 μm) (10) : Contact Area Gold (0.25 μm) +Ni (1.25 μm) |

Function Chart

● Parallel Connection (10 to 120pos.)

Straight Header



Straight Receptacle

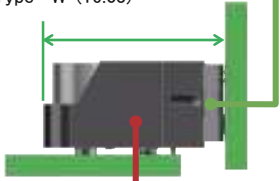
● Right Angle Connection

(120pos. only)

Straight Header

ER8-120P-0.8SV-2H
ER8-120P-0.8SV-5H

2H Type W=(13.03)
5H Type W=(16.03)



ER8-120S-0.8SH
Right Angle Receptacle

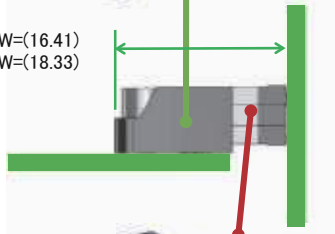
(120, 140pos.)

Right Angle Header

ER8#-###P-0.8SH



5H Type W=(16.41)
7H Type W=(18.33)



ER8#-###S-0.8SV-5H
ER8-120S-0.8SV-77H
Straight Receptacle

● Coplanar Connection (120pos. only)

Right Angle Header

ER8-120P-0.8SH



ER8-120S-0.8SH
Right Angle Receptacle

● Stacking Height Variation

| Stacking Height | No. of Pos. | | | | | | | | | | |
|-----------------|-------------|----|----|----|----|----|----|----|-----|-----|---|
| | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 100 | 120 | |
| 7mm | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 9mm | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 10mm | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 12mm | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

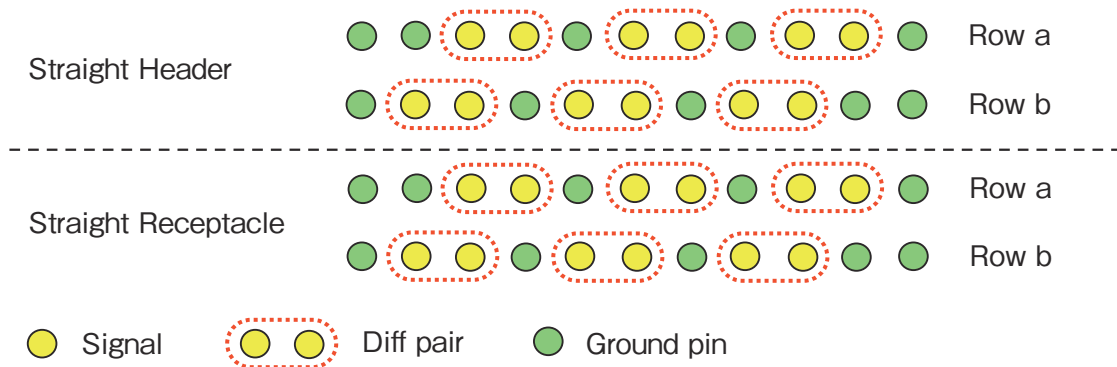
○ = Available

Signal Integrity

● Pin Assignment

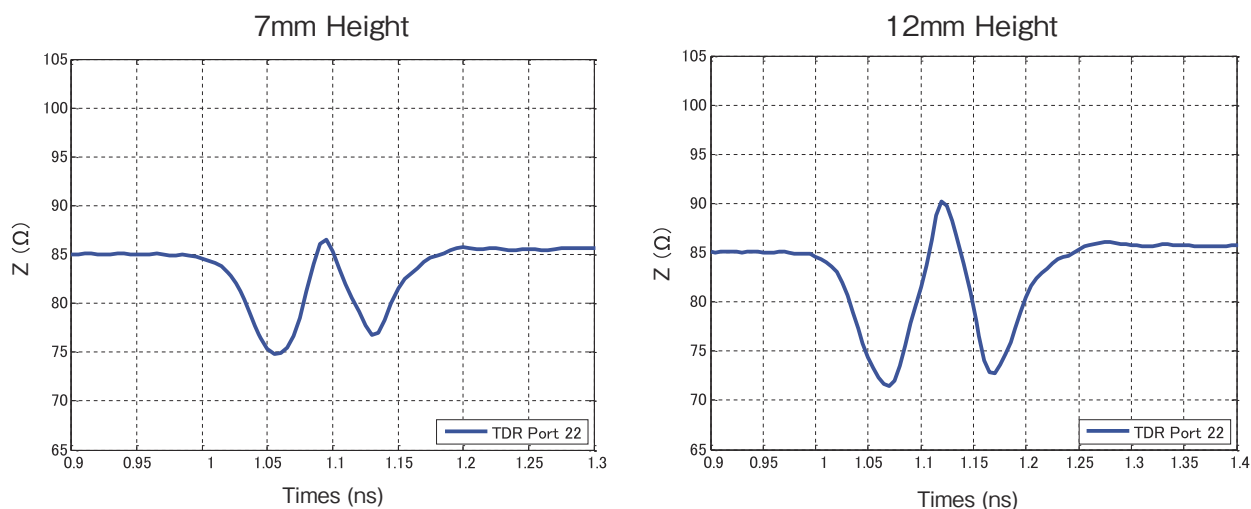
To match 85Ω differential impedance and to reduce crosstalk, a staggered GSSG pin assignment is recommended for ER8.

* Analysis results only.

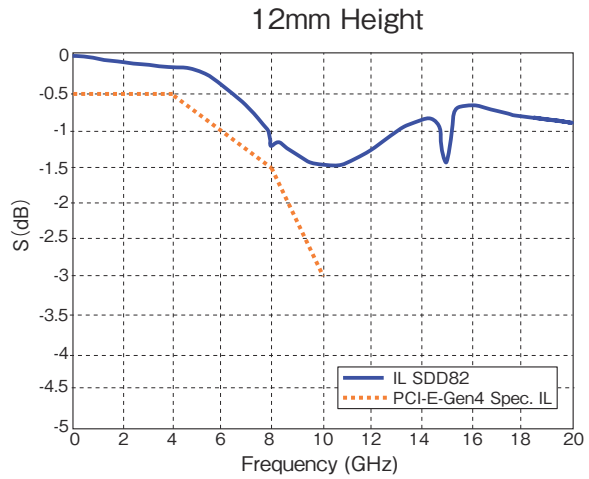
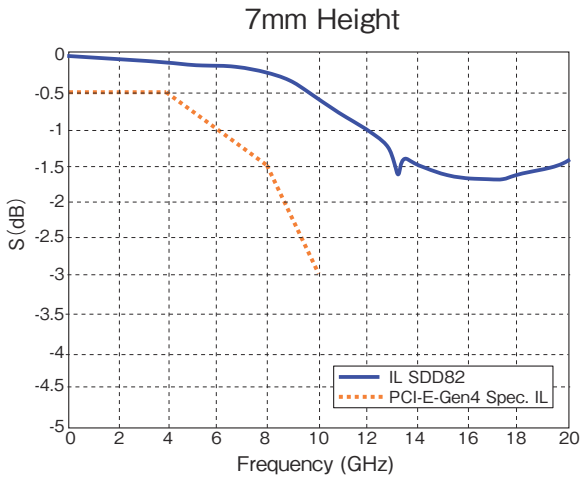


● Impedance

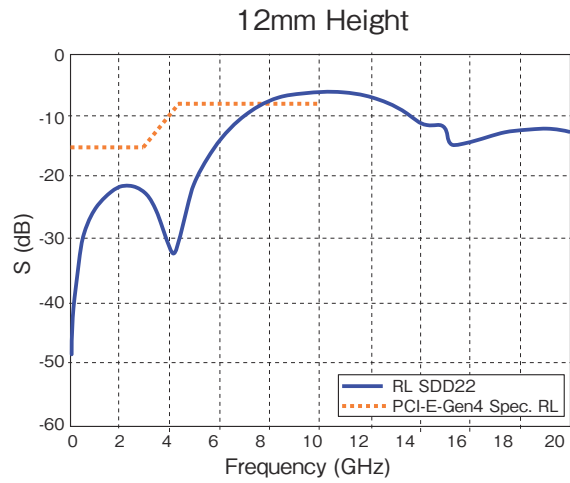
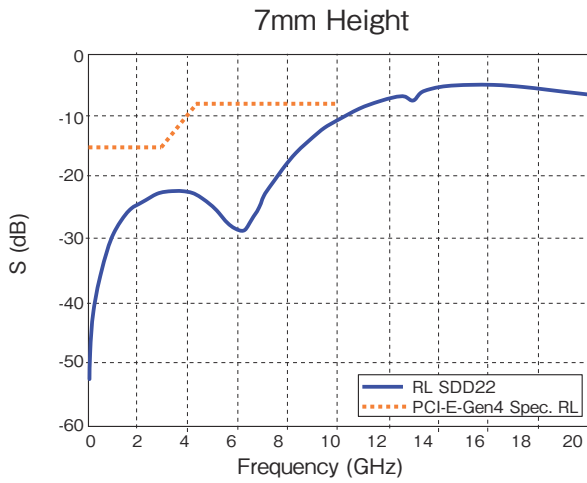
The differential impedance is 85Ω at 35ps rise time (20% to 80%)



● Insertion Loss

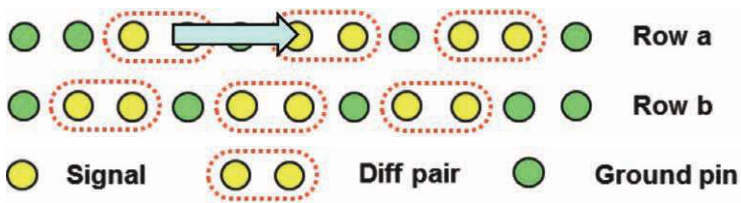


● Return Loss

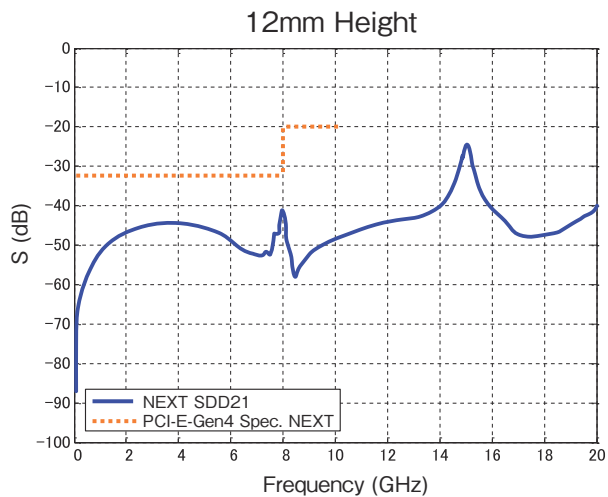
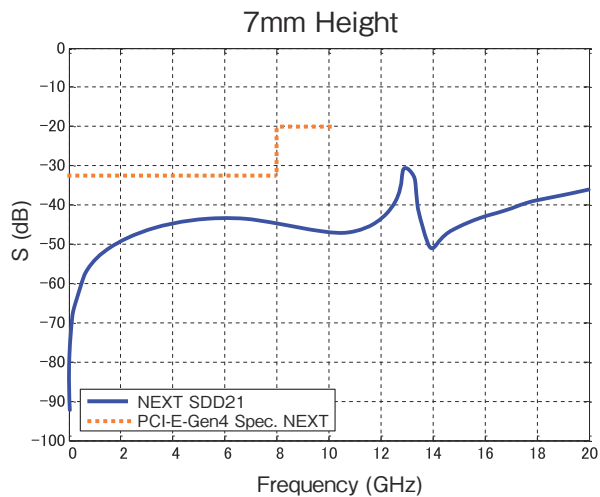


● Crosstalk

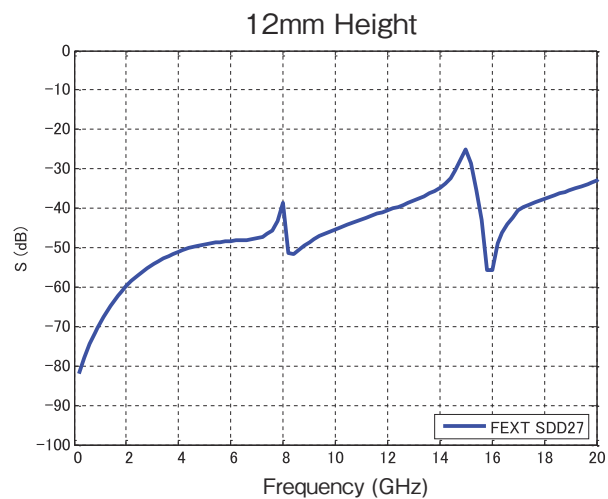
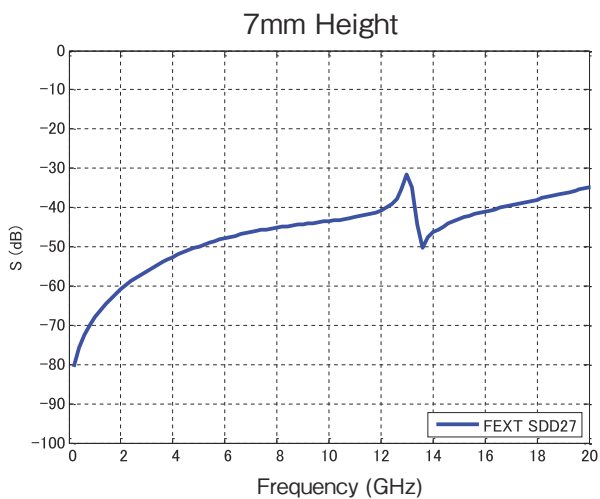
The below diagram shows the NEXT and FEXT in the same row with the highest influence.



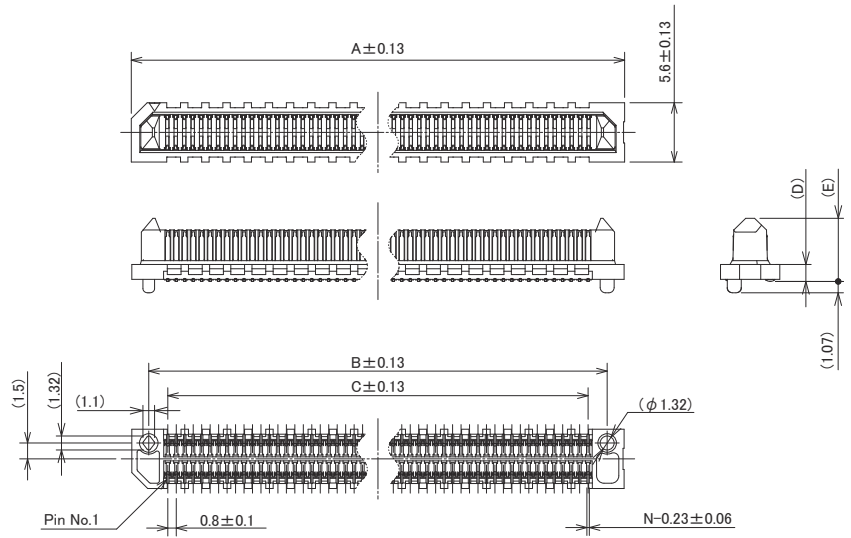
● Near-end Crosstalk (NEXT)



● Far-end Crosstalk (FEXT)



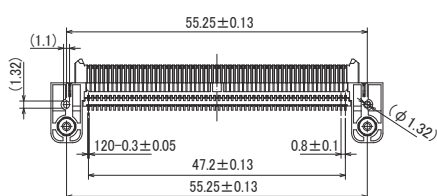
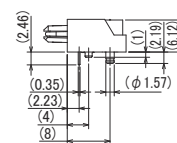
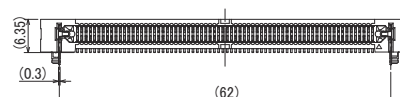
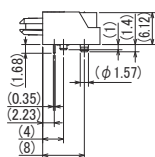
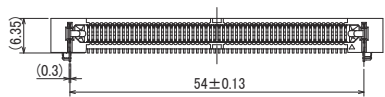
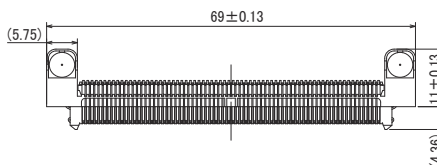
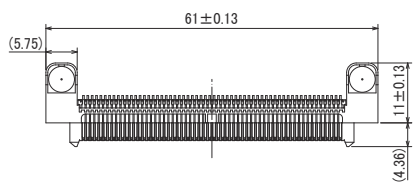
Straight Header



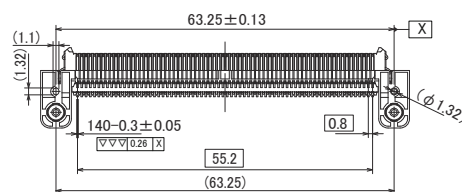
Unit : mm

| Part No. | HRS No. | No. of Pos. | A | B | C | D | E | Purchase Unit |
|-----------------------|------------------|-------------|----|------|------|-------|-------|-----------------|
| ER8-10P-0.8SV-2H(##) | CL0625-0008-8-## | 10 | 10 | 6.8 | 3.2 | 1.605 | 5.965 | 450pcs per reel |
| ER8-20P-0.8SV-2H(##) | CL0625-0011-0-## | 20 | 14 | 10.8 | 7.2 | 1.605 | 5.965 | 475pcs per reel |
| ER8-30P-0.8SV-2H(##) | CL0625-0012-0-## | 30 | 18 | 14.8 | 11.2 | 1.605 | 5.965 | 350pcs per reel |
| ER8-40P-0.8SV-2H(##) | CL0625-0013-0-## | 40 | 22 | 18.8 | 15.2 | 1.605 | 5.965 | |
| ER8-50P-0.8SV-2H(##) | CL0625-0009-0-## | 50 | 26 | 22.8 | 19.2 | 1.605 | 5.965 | |
| ER8-60P-0.8SV-2H(##) | CL0625-0017-0-## | 60 | 30 | 26.8 | 23.2 | 1.605 | 5.965 | |
| ER8-70P-0.8SV-2H(##) | CL0625-0021-0-## | 70 | 34 | 30.8 | 27.2 | 1.605 | 5.965 | |
| ER8-80P-0.8SV-2H(##) | CL0625-0022-0-## | 80 | 38 | 34.8 | 31.2 | 1.605 | 5.965 | |
| ER8-100P-0.8SV-2H(##) | CL0625-0023-0-## | 100 | 46 | 42.8 | 39.2 | 1.605 | 5.965 | |
| ER8-120P-0.8SV-2H(##) | CL0625-0003-4-## | 120 | 54 | 50.8 | 47.2 | 1.605 | 5.965 | 375pcs per reel |
| ER8-10P-0.8SV-5H(##) | CL0625-0024-0-## | 10 | 10 | 6.8 | 3.2 | 4.605 | 8.905 | 325pcs per reel |
| ER8-20P-0.8SV-5H(##) | CL0625-0025-0-## | 20 | 14 | 10.8 | 7.2 | 4.605 | 8.905 | |
| ER8-30P-0.8SV-5H(##) | CL0625-0026-0-## | 30 | 18 | 14.8 | 11.2 | 4.605 | 8.905 | |
| ER8-40P-0.8SV-5H(##) | CL0625-0020-0-## | 40 | 22 | 18.8 | 15.2 | 4.605 | 8.905 | 250pcs per reel |
| ER8-50P-0.8SV-5H(##) | CL0625-0027-0-## | 50 | 26 | 22.8 | 19.2 | 4.605 | 8.905 | |
| ER8-60P-0.8SV-5H(##) | CL0625-0019-0-## | 60 | 30 | 26.8 | 23.2 | 4.605 | 8.905 | |
| ER8-70P-0.8SV-5H(##) | CL0625-0028-0-## | 70 | 34 | 30.8 | 27.2 | 4.605 | 8.905 | |
| ER8-80P-0.8SV-5H(##) | CL0625-0029-0-## | 80 | 38 | 34.8 | 31.2 | 4.605 | 8.905 | |
| ER8-100P-0.8SV-5H(##) | CL0625-0030-0-## | 100 | 46 | 42.8 | 39.2 | 4.605 | 8.905 | |
| ER8-120P-0.8SV-5H(##) | CL0625-0031-0-## | 120 | 54 | 50.8 | 47.2 | 4.605 | 8.905 | |

Right Angle Header



ER8-120P-0.8SH(##)

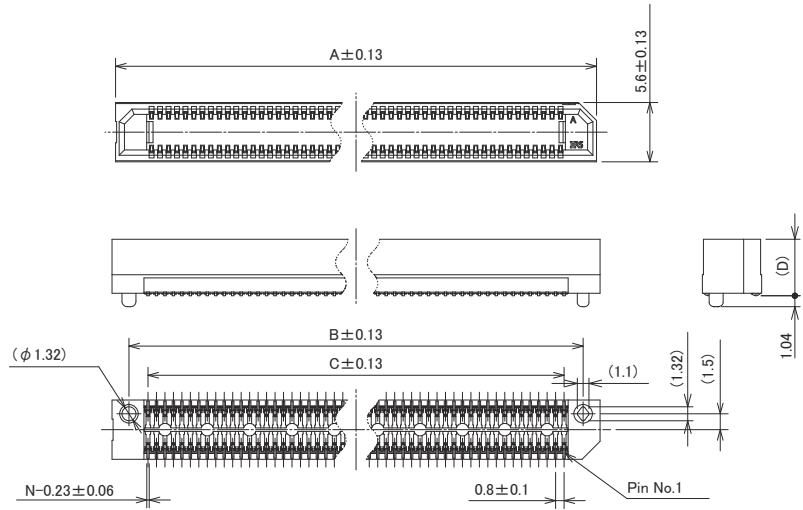


ER8L-140P-0.8SH(##)

Unit : mm

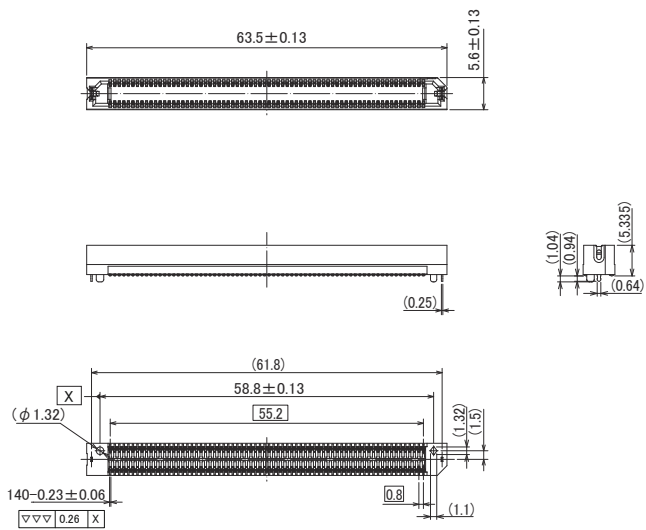
| Part No. | HRS No. | No. of Pos. | Purchase Unit |
|---------------------|------------------|-------------|-----------------|
| ER8-120P-0.8SH(##) | CL0625-0047-0-## | 120 | 200pcs per reel |
| ER8L-140P-0.8SH(##) | CL0625-1002-0-## | 140 | |

Straight Receptacle



Unit : mm

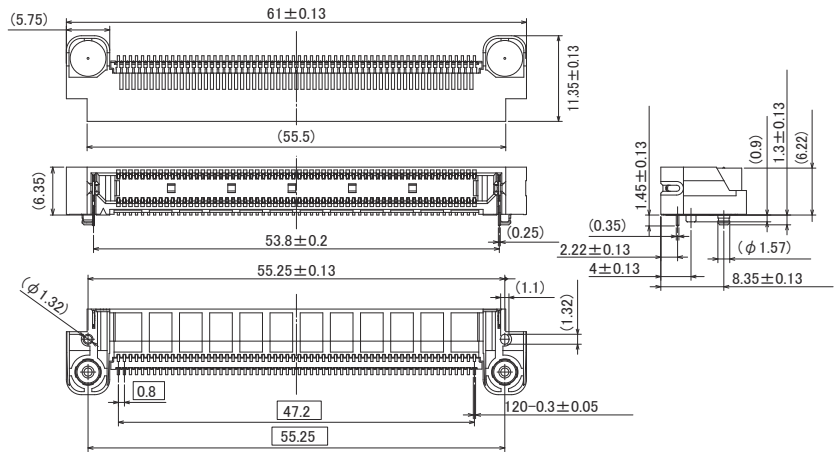
| Part No. | HRS No. | No. of Pos. | A | B | C | D | Purchase Unit |
|-----------------------|------------------|-------------|----|------|------|-------|-----------------|
| ER8-10S-0.8SV-5H(##) | CL0625-0007-5-## | 10 | 10 | 6.8 | 3.2 | 5.335 | 475pcs per reel |
| ER8-20S-0.8SV-5H(##) | CL0625-0014-0-## | 20 | 14 | 10.8 | 7.2 | 5.335 | 500pcs per reel |
| ER8-30S-0.8SV-5H(##) | CL0625-0015-0-## | 30 | 18 | 14.8 | 11.2 | 5.335 | 475pcs per reel |
| ER8-40S-0.8SV-5H(##) | CL0625-0016-0-## | 40 | 22 | 18.8 | 15.2 | 5.335 | 375pcs per reel |
| ER8-50S-0.8SV-5H(##) | CL0625-0010-0-## | 50 | 26 | 22.8 | 19.2 | 5.335 | |
| ER8-60S-0.8SV-5H(##) | CL0625-0018-0-## | 60 | 30 | 26.8 | 23.2 | 5.335 | |
| ER8-70S-0.8SV-5H(##) | CL0625-0032-0-## | 70 | 34 | 30.8 | 27.2 | 5.335 | |
| ER8-80S-0.8SV-5H(##) | CL0625-0033-0-## | 80 | 38 | 34.8 | 31.2 | 5.335 | |
| ER8-100S-0.8SV-5H(##) | CL0625-0034-0-## | 100 | 46 | 42.8 | 39.2 | 5.335 | |
| ER8-120S-0.8SV-5H(##) | CL0625-0035-0-## | 120 | 54 | 50.8 | 47.2 | 5.335 | |
| ER8-10S-0.8SV-7H(##) | CL0625-0036-0-## | 10 | 10 | 6.8 | 3.2 | 7.25 | 400pcs per reel |
| ER8-20S-0.8SV-7H(##) | CL0625-0037-0-## | 20 | 14 | 10.8 | 7.2 | 7.25 | 375pcs per reel |
| ER8-30S-0.8SV-7H(##) | CL0625-0038-0-## | 30 | 18 | 14.8 | 11.2 | 7.25 | 400pcs per reel |
| ER8-40S-0.8SV-7H(##) | CL0625-0039-0-## | 40 | 22 | 18.8 | 15.2 | 7.25 | 300pcs per reel |
| ER8-50S-0.8SV-7H(##) | CL0625-0040-0-## | 50 | 26 | 22.8 | 19.2 | 7.25 | |
| ER8-60S-0.8SV-7H(##) | CL0625-0041-0-## | 60 | 30 | 26.8 | 23.2 | 7.25 | |
| ER8-70S-0.8SV-7H(##) | CL0625-0042-0-## | 70 | 34 | 30.8 | 27.2 | 7.25 | |
| ER8-80S-0.8SV-7H(##) | CL0625-0043-0-## | 80 | 38 | 34.8 | 31.2 | 7.25 | |
| ER8-100S-0.8SV-7H(##) | CL0625-0044-0-## | 100 | 46 | 42.8 | 39.2 | 7.25 | |
| ER8-120S-0.8SV-7H(##) | CL0625-0045-0-## | 120 | 54 | 50.8 | 47.2 | 7.25 | |



Unit : mm

| Part No. | HRS No. | No. of Pos. | Purchase Unit |
|------------------------|------------------|-------------|-----------------|
| ER8L-140S-0.8SV-5H(##) | CL0625-0046-0-## | 140 | 375pcs per reel |

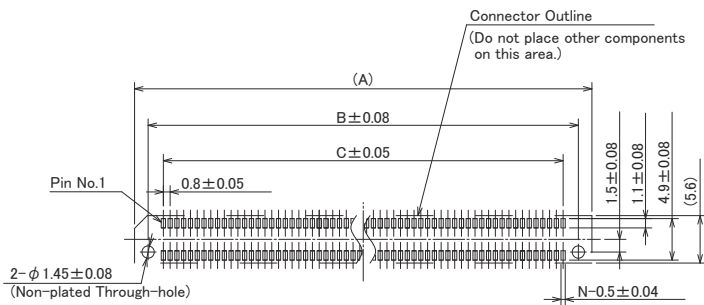
Right Angle Receptacle



| Part No. | HRS No. | No. of Pos. | Purchase Unit |
|--------------------|------------------|-------------|-----------------|
| ER8-120S-0.8SH(##) | CL0625-1001-4-## | 120 | 200pcs per reel |

Recommended PCB Mouting Pattern (Metal Mask Thickness : $t=0.15\text{mm}$)

● Straight Header

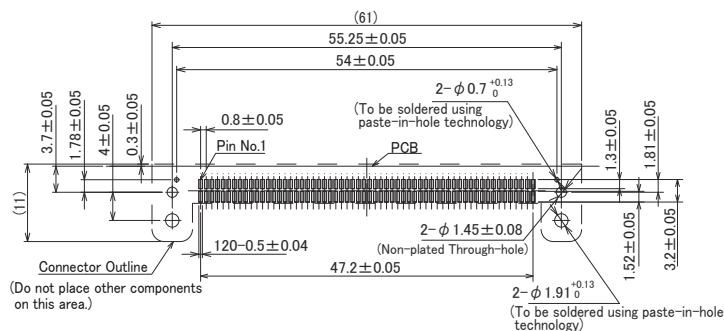


Unit : mm

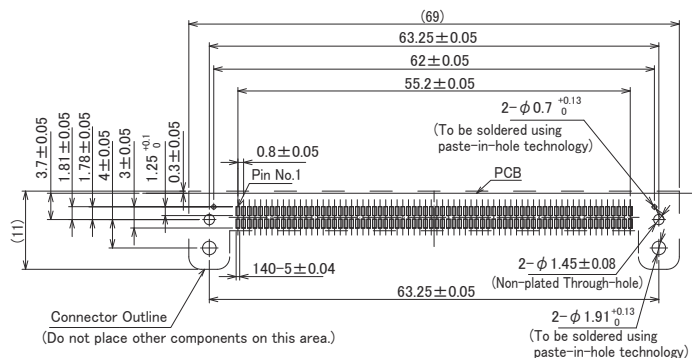
| No. of Pos. | A | B | C |
|-------------|----|------|------|
| 10 | 10 | 6.8 | 3.2 |
| 20 | 14 | 10.8 | 7.2 |
| 30 | 18 | 14.8 | 11.2 |
| 40 | 22 | 18.8 | 15.2 |
| 50 | 26 | 22.8 | 19.2 |
| 60 | 30 | 26.8 | 23.2 |
| 70 | 34 | 30.8 | 27.2 |
| 80 | 38 | 34.8 | 31.2 |
| 100 | 46 | 42.8 | 39.2 |
| 120 | 54 | 50.8 | 47.2 |

● Right Angle Header

120pos.

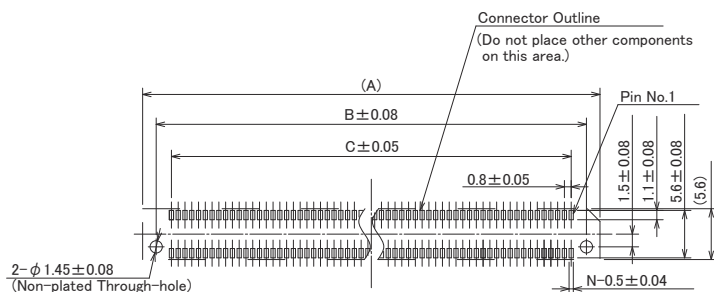


140pos.

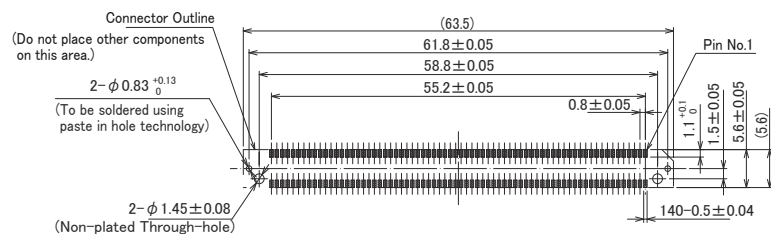


● Straight Receptacle

10-120pos.



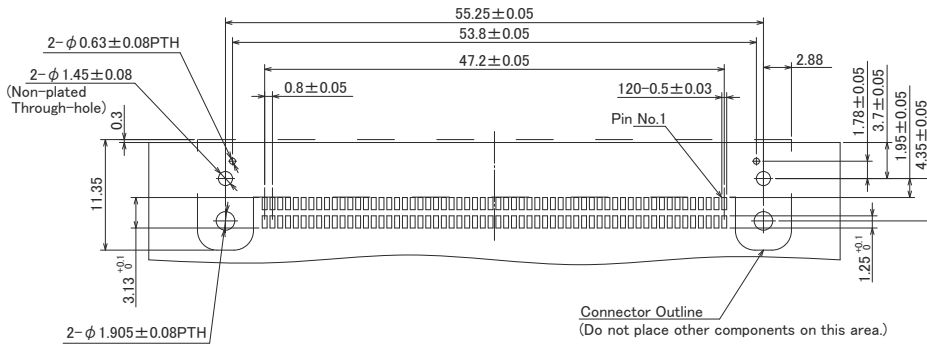
140pos.



Unit : mm

| No. of Pos. | A | B | C |
|-------------|------|------|------|
| 10 | 10 | 6.8 | 3.2 |
| 20 | 14 | 10.8 | 7.2 |
| 30 | 18 | 14.8 | 11.2 |
| 40 | 22 | 18.8 | 15.2 |
| 50 | 26 | 22.8 | 19.2 |
| 60 | 30 | 26.8 | 23.2 |
| 70 | 34 | 30.8 | 27.2 |
| 80 | 38 | 34.8 | 31.2 |
| 100 | 46 | 42.8 | 39.2 |
| 120 | 54 | 50.8 | 47.2 |
| 140 | 63.5 | 58.8 | 55.2 |

● Right Angle Receptacle



Connection Variations

Right Angle Receptacle

ER8-120S-0.8SH(##)
120pos. only



Right Angle Header

ER8#-###P-0.8SH(##)
120, 140pos.

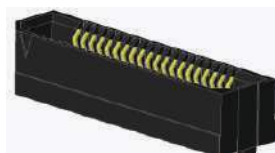


Coplanar Connection

Right Angle Connection

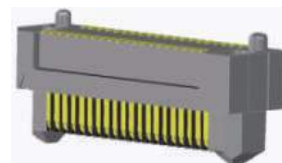
Straight Receptacle

ER8#-###S-0.8SV-#H(##)
10 to 140pos.



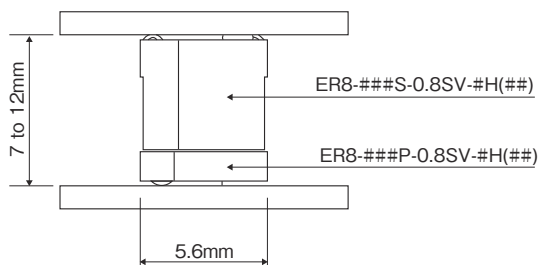
Straight Header

ER8-###P-0.8SV-#H(##)
10 to 120pos.

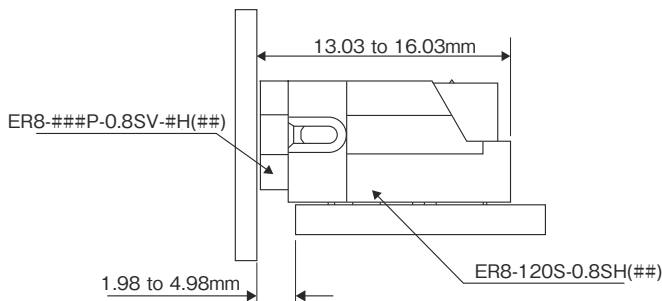


Parallel Connection

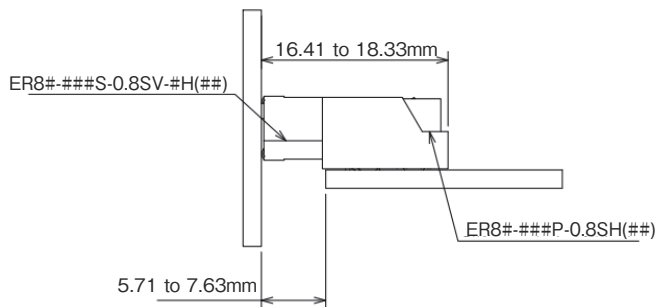
Parallel Connection Type



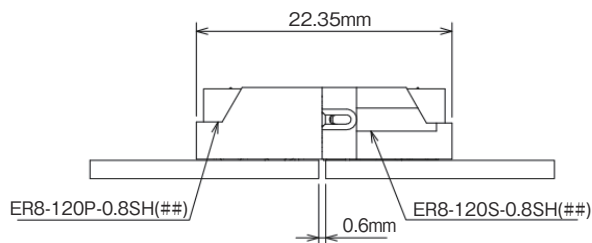
Right Angle Connection Type
(Straight Header + Right Angle Receptacle)



Right Angle Connection Type
(Right Angle Header + Straight Receptacle)



Coplanar Connection Type



Edge Rate (Samtec) Part No. Compatibility List

● Straight Header

| Part No. | HRS No. | Samtec Part No. |
|-------------------|------------------|-------------------------|
| ER8-10P-0.8SV-2H | CL0625-0008-8-00 | ERM8-005-02.0-S-DV-K-TR |
| ER8-20P-0.8SV-2H | CL0625-0011-0-00 | ERM8-010-02.0-S-DV-K-TR |
| ER8-30P-0.8SV-2H | CL0625-0012-0-00 | — |
| ER8-40P-0.8SV-2H | CL0625-0013-0-00 | ERM8-020-02.0-S-DV-K-TR |
| ER8-50P-0.8SV-2H | CL0625-0009-0-00 | ERM8-025-02.0-S-DV-K-TR |
| ER8-60P-0.8SV-2H | CL0625-0017-0-00 | ERM8-030-02.0-S-DV-K-TR |
| ER8-70P-0.8SV-2H | CL0625-0021-0-00 | ERM8-035-02.0-S-DV-K-TR |
| ER8-80P-0.8SV-2H | CL0625-0022-0-00 | ERM8-040-02.0-S-DV-K-TR |
| ER8-100P-0.8SV-2H | CL0625-0023-0-00 | ERM8-050-02.0-S-DV-K-TR |
| ER8-120P-0.8SV-2H | CL0625-0003-4-00 | ERM8-060-02.0-S-DV-K-TR |
| ER8-10P-0.8SV-5H | CL0625-0024-0-00 | ERM8-005-05.0-S-DV-K-TR |
| ER8-20P-0.8SV-5H | CL0625-0025-0-00 | ERM8-010-05.0-S-DV-K-TR |
| ER8-30P-0.8SV-5H | CL0625-0026-0-00 | — |
| ER8-40P-0.8SV-5H | CL0625-0020-0-00 | ERM8-020-05.0-S-DV-K-TR |
| ER8-50P-0.8SV-5H | CL0625-0027-0-00 | ERM8-025-05.0-S-DV-K-TR |
| ER8-60P-0.8SV-5H | CL0625-0019-0-00 | ERM8-030-05.0-S-DV-K-TR |
| ER8-70P-0.8SV-5H | CL0625-0028-0-00 | ERM8-035-05.0-S-DV-K-TR |
| ER8-80P-0.8SV-5H | CL0625-0029-0-00 | ERM8-040-05.0-S-DV-K-TR |
| ER8-100P-0.8SV-5H | CL0625-0030-0-00 | ERM8-050-05.0-S-DV-K-TR |
| ER8-120P-0.8SV-5H | CL0625-0031-0-00 | ERM8-060-05.0-S-DV-K-TR |

● Right Angle Header

| Part No. | HRS No. | Samtec Part No. |
|-----------------|------------------|---------------------------|
| ER8-120P-0.8SH | CL0625-0047-0-00 | ERM8-060-01-S-D-RA-K-TR |
| ER8L-140P-0.8SH | CL0625-1002-0-00 | ERM8-070-01-S-D-RA-L-K-TR |

● Straight Receptacle

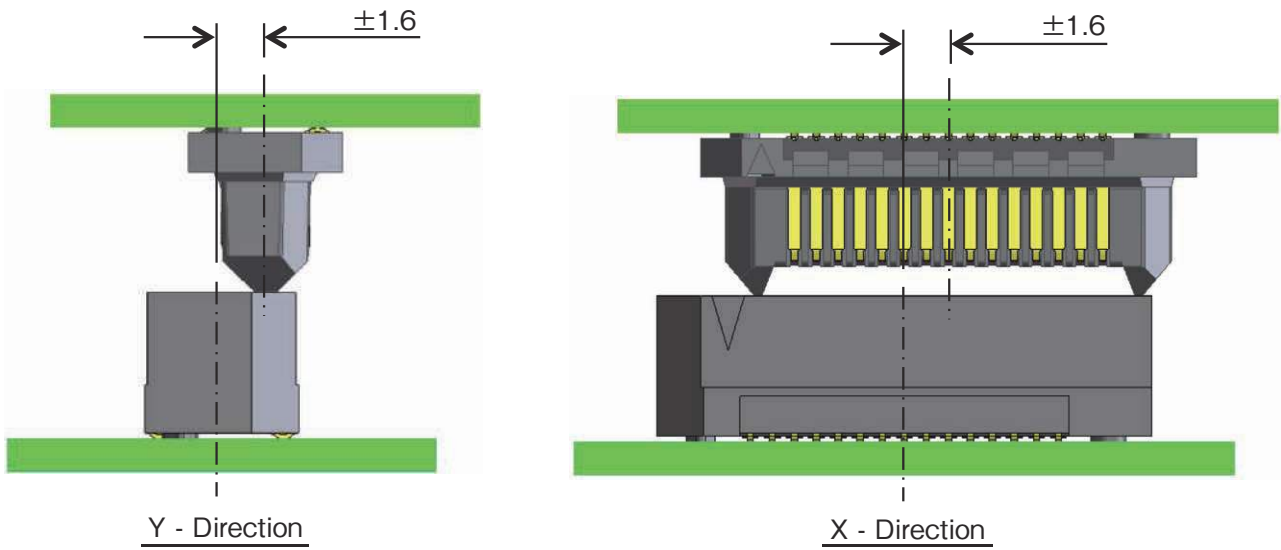
| Part No. | HRS No. | Samtec Part No. |
|--------------------|------------------|---------------------------|
| ER8-10S-0.8SV-5H | CL0625-0007-5-00 | ERF8-005-05.0-S-DV-K-TR |
| ER8-20S-0.8SV-5H | CL0625-0014-0-00 | ERF8-010-05.0-S-DV-K-TR |
| ER8-30S-0.8SV-5H | CL0625-0015-0-00 | — |
| ER8-40S-0.8SV-5H | CL0625-0016-0-00 | ERF8-020-05.0-S-DV-K-TR |
| ER8-50S-0.8SV-5H | CL0625-0010-0-00 | ERF8-025-05.0-S-DV-K-TR |
| ER8-60S-0.8SV-5H | CL0625-0018-0-00 | ERF8-030-05.0-S-DV-K-TR |
| ER8-70S-0.8SV-5H | CL0625-0032-0-00 | ERF8-035-05.0-S-DV-K-TR |
| ER8-80S-0.8SV-5H | CL0625-0033-0-00 | ERF8-040-05.0-S-DV-K-TR |
| ER8-100S-0.8SV-5H | CL0625-0034-0-00 | ERF8-050-05.0-S-DV-K-TR |
| ER8-120S-0.8SV-5H | CL0625-0035-0-00 | ERF8-060-05.0-S-DV-K-TR |
| ER8L-140S-0.8SV-5H | CL0625-0046-0-00 | ERF8-070-05.0-S-DV-L-K-TR |
| ER8-10S-0.8SV-7H | CL0625-0036-0-00 | ERF8-005-07.0-S-DV-K-TR |
| ER8-20S-0.8SV-7H | CL0625-0037-0-00 | ERF8-010-07.0-S-DV-K-TR |
| ER8-30S-0.8SV-7H | CL0625-0038-0-00 | — |
| ER8-40S-0.8SV-7H | CL0625-0039-0-00 | ERF8-020-07.0-S-DV-K-TR |
| ER8-50S-0.8SV-7H | CL0625-0040-0-00 | ERF8-025-07.0-S-DV-K-TR |
| ER8-60S-0.8SV-7H | CL0625-0041-0-00 | ERF8-030-07.0-S-DV-K-TR |
| ER8-70S-0.8SV-7H | CL0625-0042-0-00 | ERF8-035-07.0-S-DV-K-TR |
| ER8-80S-0.8SV-7H | CL0625-0043-0-00 | ERF8-040-07.0-S-DV-K-TR |
| ER8-100S-0.8SV-7H | CL0625-0044-0-00 | ERF8-050-07.0-S-DV-K-TR |
| ER8-120S-0.8SV-7H | CL0625-0045-0-00 | ERF8-060-07.0-S-DV-K-TR |

● Right Angle Receptacle

| Part No. | HRS No. | Samtec Part No. |
|----------------|------------------|-----------------------|
| ER8-120S-0.8SH | CL0625-1001-4-00 | ERF8-060-01-L-D-RA-TR |

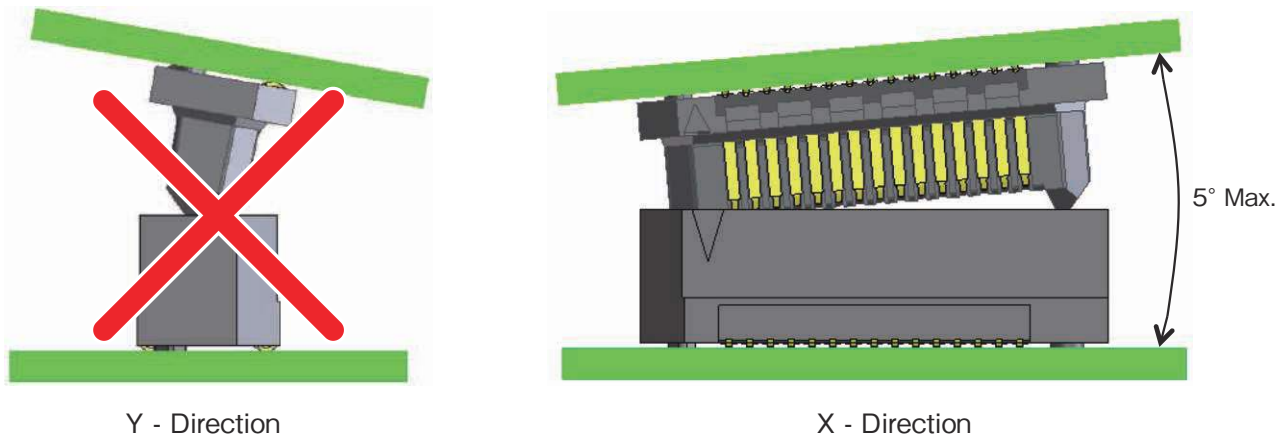
Mating Operation

● Mating Self-Alignment Tolerance (Note)



● Mating Angle Tolerance (Note)

A mating angle of 5° is allowed in the longitudinal (X) direction. Mating at an angle in the lateral (Y) direction is not recommended.



Note : The above mating conditions show the allowed values for the mating self-alignment and mating angles separately. The self alignment tolerance and angle tolerance are not satisfied at the same time.

Recommended Spacer Height

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

Unit : mm

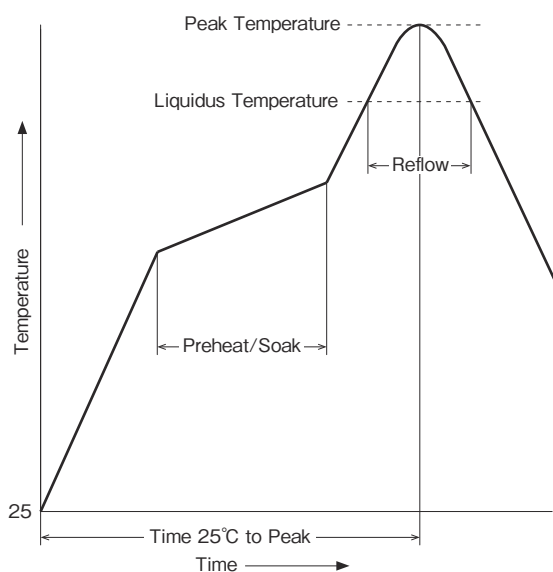
| Stacking Height | Recommended Spacer Height |
|-----------------|---------------------------|
| 7 | 7.15 ± 0.05 |
| 9 | 9.15 ± 0.05 |
| 10 | 10.15 ± 0.05 |
| 12 | 12.15 ± 0.05 |

Mounting Temperature Profile (Reference)

● Pb-Free Assembly

| Preheat / Soak (150 to 200°C) | Max. Ramp Up Rate | Reflow Time (217°C Min.) | Peak Temperature | Peak Temperature Time | Cooling Rate | Time Between Normal Temperature and Peak |
|-------------------------------|-------------------|--------------------------|------------------|-----------------------|--------------|--|
| 60 - 120 sec. | 3°C Max./s | 40 - 150 sec. | 260°C | 30 sec. Max. | 6°C Max./s | 8 min Min. |

Recommended Temperature Profile



Temperature profile may change depending on the solder paste types, manufacturers, PCB size, and other soldering materials. Please fully check the mounting conditions before use.

Cleaning Conditions

● Cleaning with Organic Solvent

| Solvent | Cleaning at Normal Temperature | Heated Cleaning |
|--------------------------------|--------------------------------|-----------------|
| IPA (Isopropyl Alcohol) | Yes | Yes |
| HCFC (Hydrochlorofluorocarbon) | Yes | Yes |

● Cleaning with Water

When water-type cleaning agents (terpene, alkaline saponification agents) are used, select cleaning agents based on the 'table of influence' on metals and resins issued by the cleaning agent manufacturer.

Caution : Do not leave the connector with any water content left on it.

● Cleaning Precautions

If flux or cleaning agent remains on the connector during part cleaning with organic solvent and water-based agents, it may cause deterioration of electrical performance. Confirm cleaning is performed properly.

While Taking into Consideration

Specifications mentioned in this catalog are reference values.

When considering to order or use this product, please confirm the Drawing and Product Specifications sheets.

Use an appropriate cable when using the connector in combination with cables.

If considering usage of a non- specified cable, please contact your sales representative.

If assembly process is done by jigs & tools which are not identified by Hirose, assurance will not be given.

If considering usage for below mentioned applications, please contact your sales representative.

In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/ defense etc. Hirose must review before assurance of reliability can be given.