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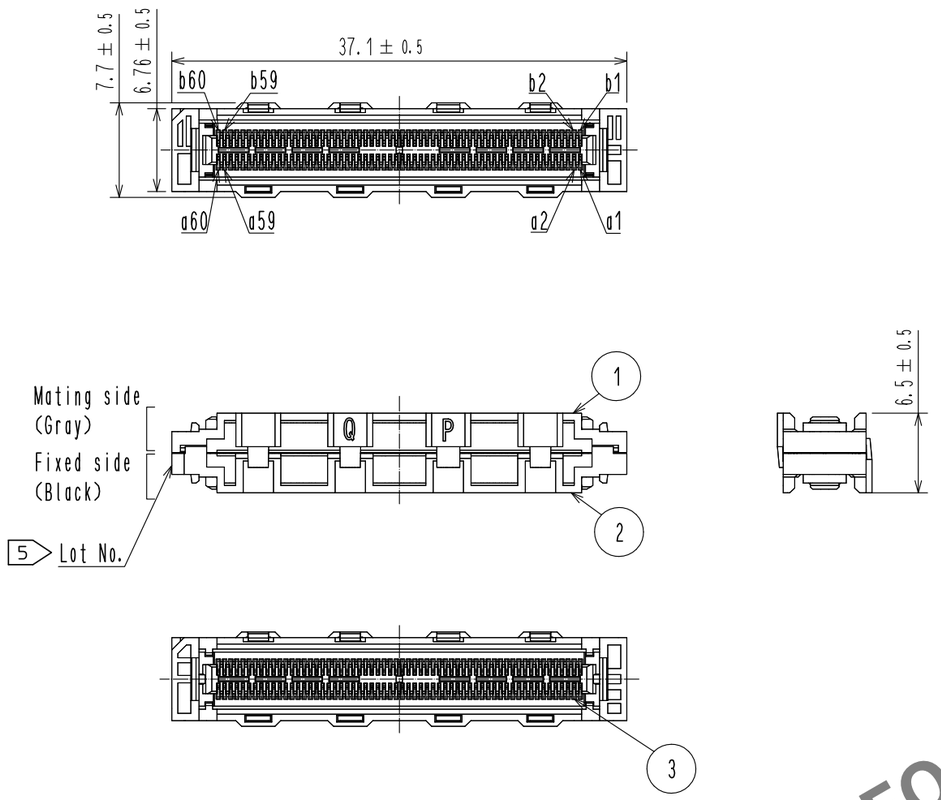


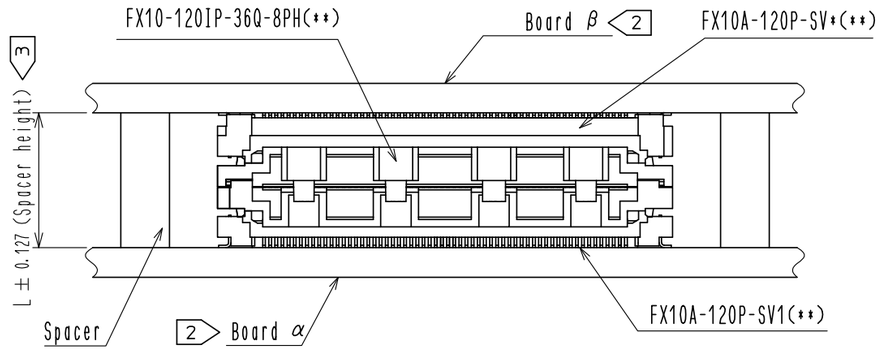


Fig.1 Recommended spacer height (Free)

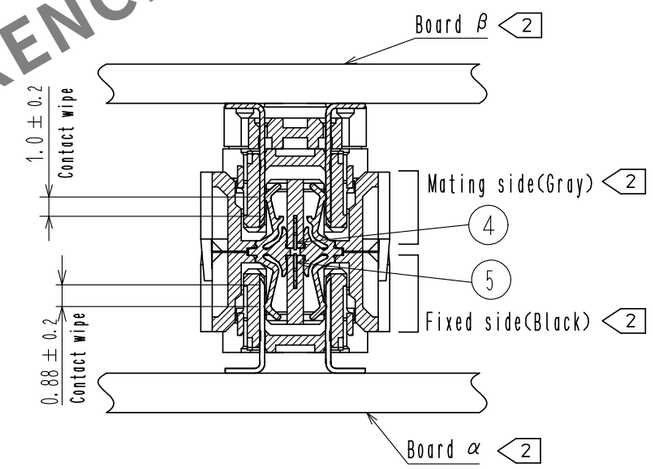


Fig.2 Mating cross section (Free)

Table.1 Stacking height and connector combinations 1

| Board distance (Stacking height) | Header connector of Board α | Interposer | Header connector of Board β | Recommended spacer height(L) 3 |
|---|---|---|---|---|
| 11mm | FX10A-120P-SV1(**) | FX10-120IP-36Q-8PH(03) | FX10A-120P-SV2(**) | 11±0.127mm |
| 12mm | FX10A-120P-SV1(**) | | FX10A-120P-SV3(**) | 12±0.127mm |
| 13mm | FX10A-120P-SV1(**) | | FX10A-120P-SV4(**) | 13±0.127mm |

Table.2 Pin configuration of Interposer 4

| Row A Pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin configuration | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S | G1 | SE | SE | SE | SE | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 |
| Row B Pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| Pin configuration | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S | G1 | SE | SE | SE | SE | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 |

S: Signal for Differential SE: Siganal for Single-ended G1: Common ground 1 G2: Common ground 2

Note. 1 The header connectors are decided by board distance (stacking height). Connector combination is shown in Table 1.
2 Fixed side (Black side) of interposer should be mated with header mounted on board α.
Mating side (Gray side) should be mated with header mounted on board β.
3 Spacers are required to support the PWB's and protect the SMT solder joints.
Recommended spacer height is shown in Table 1.
4 Pin configuration is shown in Table 2.
This product consists of 36 Differential pairs , 8 Single-ended lines and 40 ground lines.
5 Lot No. shall be marked on the indicated position.
6 50pcs of this product are packed in soft tray. See Fig.3 for details.

| NO. | MATERIAL | FINISH . REMARKS | NO. | MATERIAL | FINISH . REMARKS |
|---|---|---|---|---|---|
| 3 | Copper Alloy | Ni1.5μm+Au0.76μm | 6 | PS | (Tray) |
| 2 | LCP(Black) | UL94V-0 | 5 | Copper Alloy | Ni1μm |
| 1 | LCP(Gray) | UL94V-0 | 4 | Copper Alloy | Ni1μm |

| UNITS mm | SCALE 2 : 1 | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|---|
| | | 0 | | | | |

HIROSE ELECTRIC CO., LTD.

| | | |
|---|---|---|
| APPROVED | TM. MATSUO | 17. 07. 19 |
| CHECKED | MK. EZAKI | 17. 07. 14 |
| DESIGNED | AS. MATSUZAWA | 17. 07. 14 |
| DRAWN | XINGYU CHENG | 17. 07. 14 |

DRAWING NO. EDC-361676-03-00
PART NO. FX10-120IP-36Q-8PH(03)
CODE NO. CL608-0016-0-03 0 1/2

HRS DRAWING FOR REFERENCE

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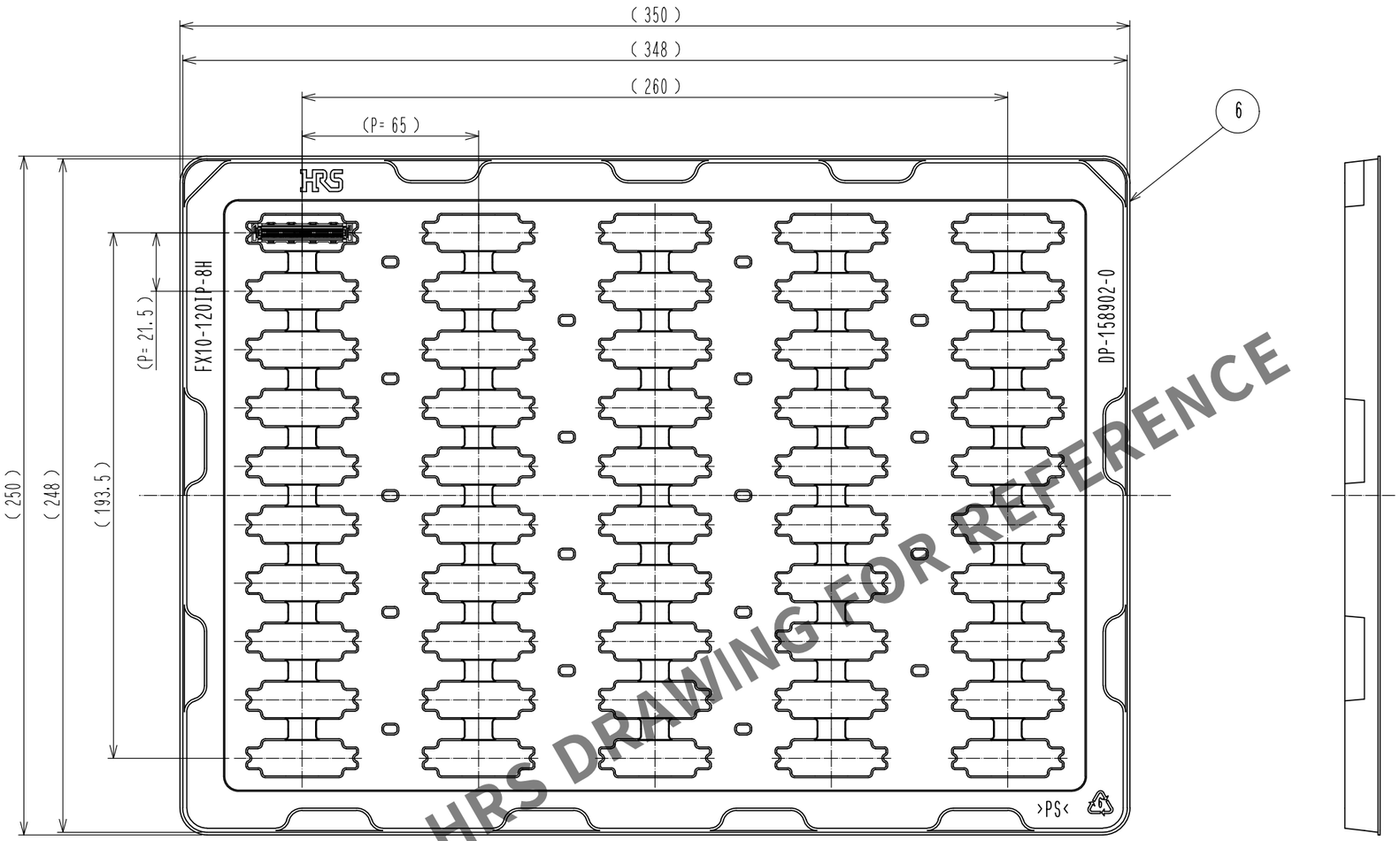

Fig. 3 Drawing for packing (1:2) 6

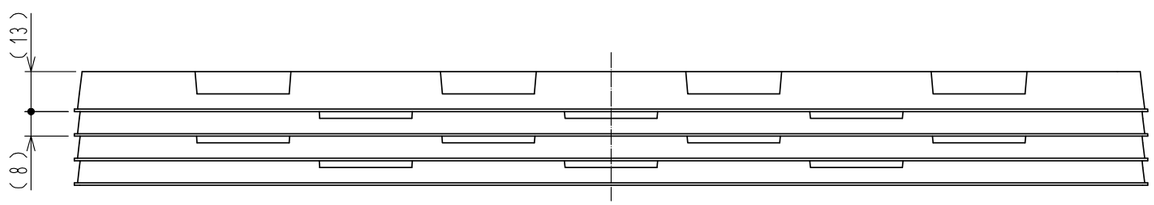


Fig. 4 Stacked tray drawing (1:2)

HRS DRAWING FOR REFERENCE

| | | |
|---|---|---|
| HRS | DRAWING NO. | EDC-361676-03-00 |
| | PART NO. | FX10-120IP-36Q-8PH(03) |
| | CODE NO. | CL608-0016-0-03 △0 2/2 |