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 In case that the application demands a high level of reliability, such as automotive,
 please contact a company representative for further information.

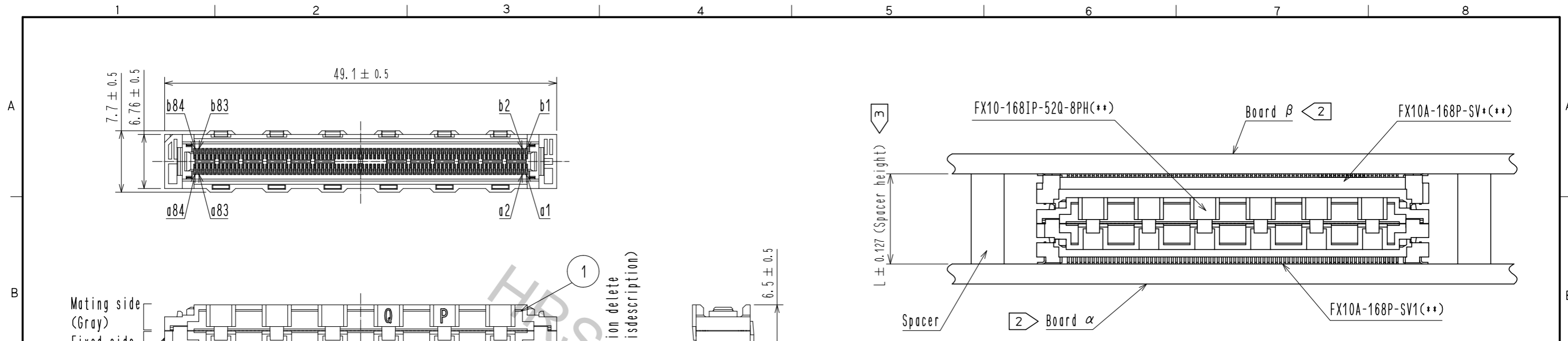


Fig.1 Recommended spacer height (Free)

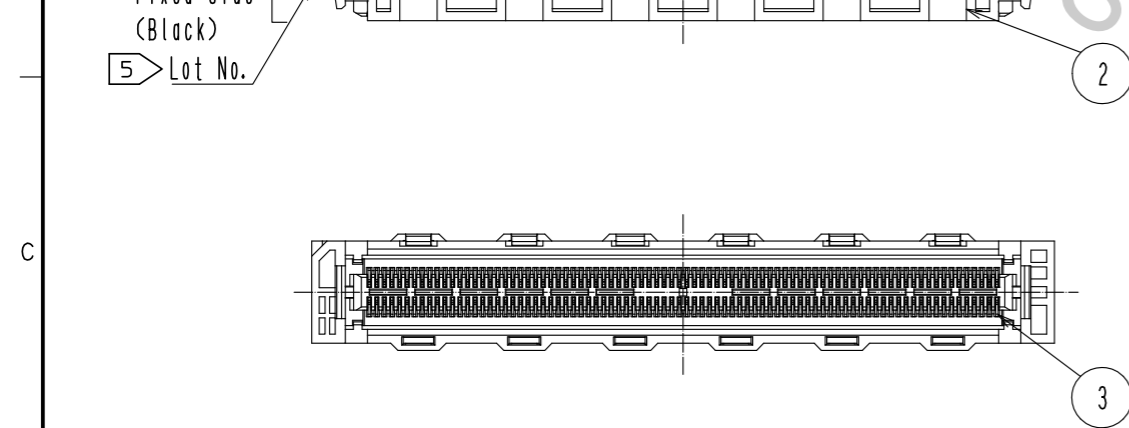


Fig.2 Mating cross section (Free)

Table.1 Stacking height and connector combinations

| Board distance (Stacking height) | Header connector of Board α | Interposer | Header connector of Board β | Recommended spacer height(L) |
|----------------------------------|-----------------------------|-------------------------|-----------------------------|------------------------------|
| 11mm | FX10A-168P-SV1(**) | FX10A-168IP-52Q-8PH(**) | FX10A-168P-SV2(**) | 11±0.127mm |
| 12mm | FX10A-168P-SV1(**) | | FX10A-168P-SV3(**) | 12±0.127mm |
| 13mm | FX10A-168P-SV1(**) | | FX10A-168P-SV4(**) | 13±0.127mm |

- 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 52 Differential pairs, 8 Single-ended lines and 56 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 | SCALE | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|-------|-------|-------|--------------------------|---------------|-----------|----------|
| mm | 2 : 1 | 6 | DIS-F-00002626 | AS. MATSUZAWA | MK. EZAKI | 17.09.04 |

| APPROVED | CHECKED | DESIGNED | DRAWN | DRAWING NO. | PART NO. | CODE NO. |
|-----------|-----------|------------|------------|------------------|-------------------------|-----------------|
| MK. EZAKI | MK. EZAKI | MK. NAGATA | MK. NAGATA | EDC-354341-03-00 | FX10-168IP-52Q-8PH(C03) | CL608-0005-4-03 |

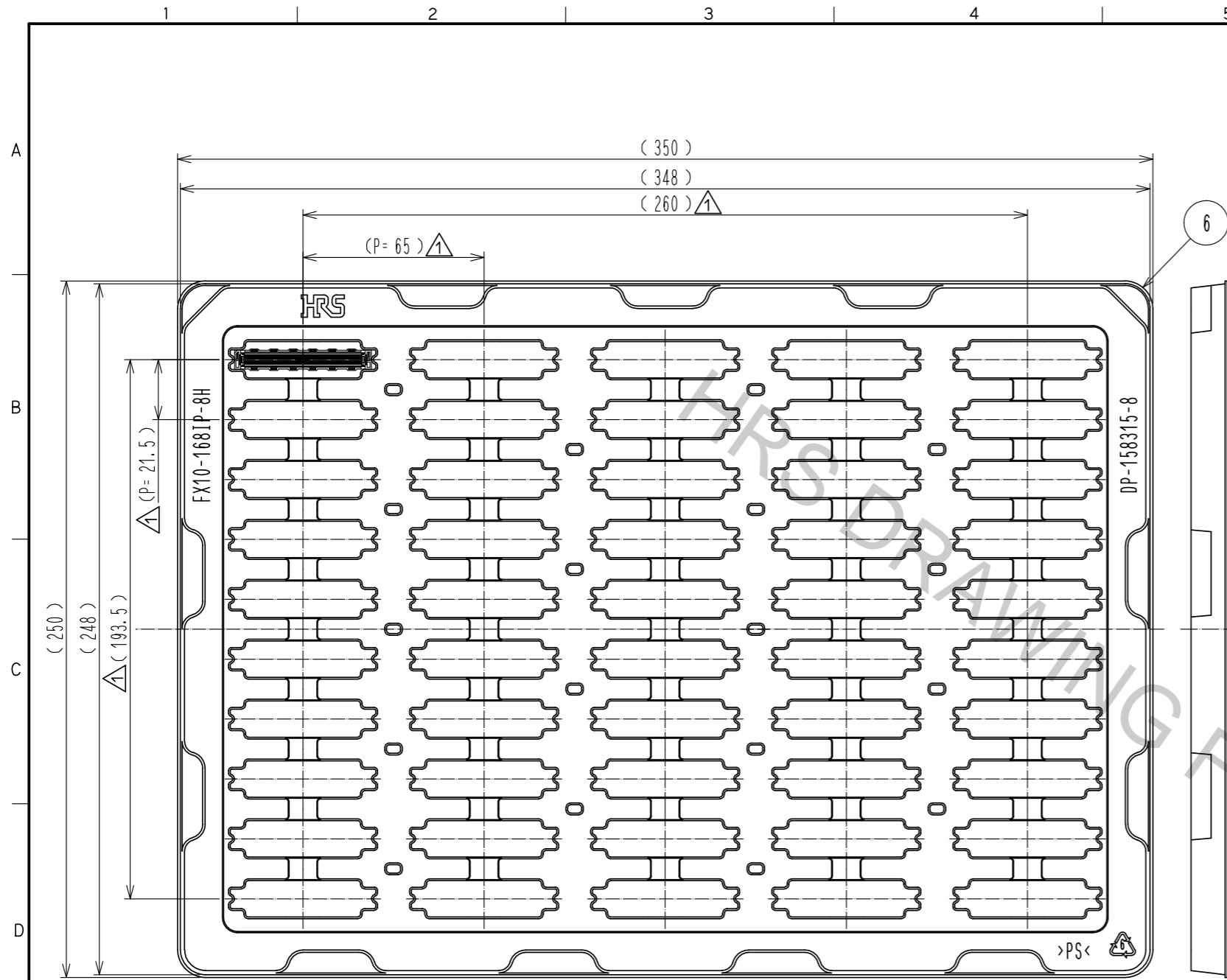


Fig.3 Drawing for packing (1:2) 6

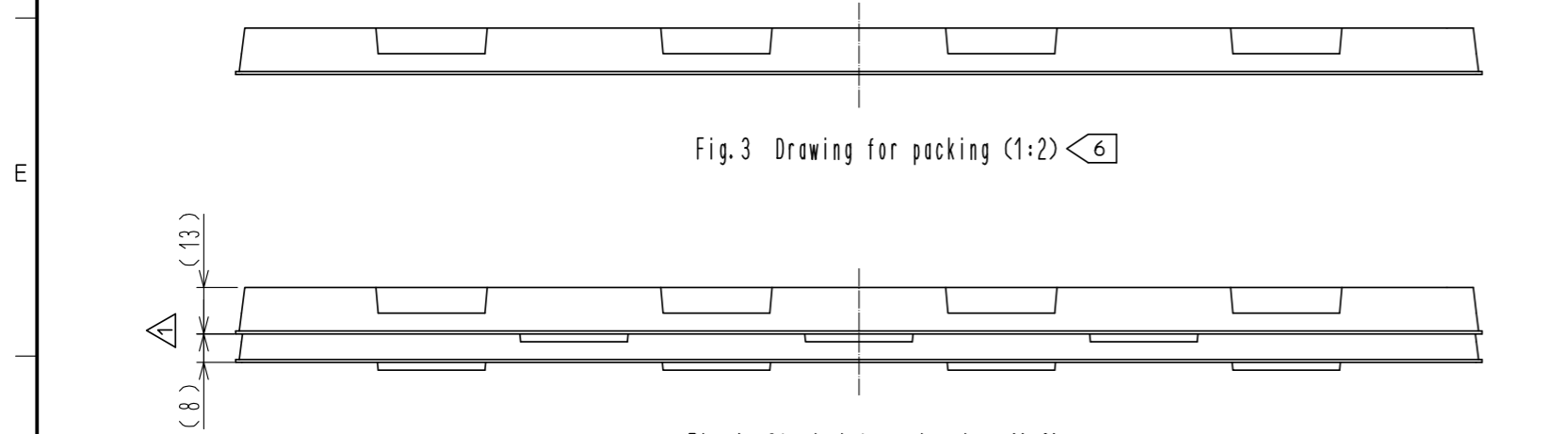


Fig.4 Stacked tray drawing (1:2)

Table.2 Pin configuration of Interposer 4

| | | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Row A Pin No. | a1 | a2 | a3 | a4 | a5 | a6 | a7 | a8 | a9 | a10 | a11 | a12 |
| Pin configuration | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S |
| Row A Pin No. | a13 | a14 | a15 | a16 | a17 | a18 | a19 | a20 | a21 | a22 | a23 | a24 |
| Pin configuration | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S |
| Row A Pin No. | a25 | a26 | a27 | a28 | a29 | a30 | a31 | a32 | a33 | a34 | a35 | a36 |
| Pin configuration | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S |
| Row A Pin No. | a37 | a38 | a39 | a40 | a41 | a42 | a43 | a44 | a45 | a46 | a47 | a48 |
| Pin configuration | G1 | S | S | G1 | SE | SE | SE | SE | G2 | S | S | G2 |
| Row A Pin No. | a49 | a50 | a51 | a52 | a53 | a54 | a55 | a56 | a57 | a58 | a59 | a60 |
| Pin configuration | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 |
| Row A Pin No. | a61 | a62 | a63 | a64 | a65 | a66 | a67 | a68 | a69 | a70 | a71 | a72 |
| Pin configuration | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 |
| Row A Pin No. | a73 | a74 | a75 | a76 | a77 | a78 | a79 | a80 | a81 | a82 | a83 | a84 |
| Pin configuration | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 |

| | | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Row B Pin No. | b1 | b2 | b3 | b4 | b5 | b6 | b7 | b8 | b9 | b10 | b11 | b12 |
| Pin configuration | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S |
| Row B Pin No. | b13 | b14 | b15 | b16 | b17 | b18 | b19 | b20 | b21 | b22 | b23 | b24 |
| Pin configuration | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S |
| Row B Pin No. | b25 | b26 | b27 | b28 | b29 | b30 | b31 | b32 | b33 | b34 | b35 | b36 |
| Pin configuration | G1 | S | S | G1 | S | S | G1 | S | S | G1 | S | S |
| Row B Pin No. | b37 | b38 | b39 | b40 | b41 | b42 | b43 | b44 | b45 | b46 | b47 | b48 |
| Pin configuration | G1 | S | S | G1 | SE | SE | SE | SE | G2 | S | S | G2 |
| Row B Pin No. | b49 | b50 | b51 | b52 | b53 | b54 | b55 | b56 | b57 | b58 | b59 | b60 |
| Pin configuration | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 |
| Row B Pin No. | b61 | b62 | b63 | b64 | b65 | b66 | b67 | b68 | b69 | b70 | b71 | b72 |
| Pin configuration | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 |
| Row B Pin No. | b73 | b74 | b75 | b76 | b77 | b78 | b79 | b80 | b81 | b82 | b83 | b84 |
| Pin configuration | S | S | G2 | S | S | G2 | S | S | G2 | S | S | G2 |

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

| | | |
|------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| HRS | DRAWING NO. | EDC-354341-03-00 |
| | PART NO. | FX10-168IP-52Q-8PH(03) |
| | CODE NO. | CL608-0005-4-03 2 / 2 |