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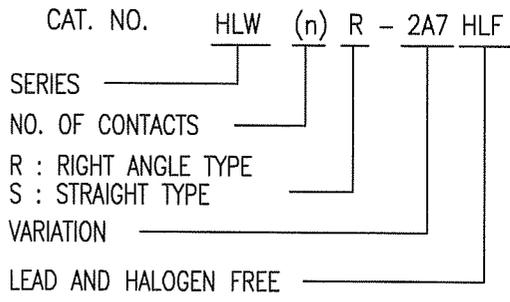
CONFIGURATION OF CUSTOMER DOCUMENTS

| P/N | DOCUMENTS | DWG. NO. | TITLE |
|-----------------|-----------|-----------------|---|
| HLW__R/S-2A7HLF | SPEC | GS-12-680 | CONNECTOR USED FOR FPC/FFC WITH 1mm CONTACT SPACING |
| | CONNECTOR | 10039761 Sheet2 | CAT NO.TABLE FOR 1mm SPACING CONNECTOR |
| | | 10039761 Sheet3 | 1mm SPACING CONNECTOR FOR FPC/FFC |
| | | 10039761 Sheet4 | 1mm SPACING CONNECTOR FOR FPC/FFC |
| | CABLE | 10039761 Sheet5 | RECOMMENDED CABLE(FPC) |
| | MANUAL | 10039761 Sheet6 | RECOMMENDED CABLE(FFC) |
| | | BJM-HLW101 | HANDLING PROCEDURES AND REMARKS |

| | | | | | | | | | | | |
|-------------|--|-----------------|--|---|--|-----------------|--|--|--|----------------------|--|
| mat'l. code | | | | surface 58 / tolerance ISO 1302 <input checked="" type="checkbox"/> ISO 406 <input type="checkbox"/> ISO 1101 | | projection | | product family 58PF/QF | | CODE JP | |
| ltr A | | ecn no J10-0334 | | dr S.W | | date 2010-11-16 | | title 1mm SPACING CONNECTOR DOCUMENT LIST (Cat. No. HLW__R/S-2A7HLF) | | | |
| | | | | angles linear | | mm | | scale X | | | |
| | | | | dr <i>S. Wether</i> | | 2010-11-16 | | dwg no 10039761 | | sheet 1 of 6 size A4 | |
| | | | | enr <i>S. Wether</i> | | 2010-11-16 | | type Product Customer Drawing | | | |
| | | | | chr <i>S. Kamel</i> | | 2010-11-16 | | | | | |
| | | | | appd <i>[Signature]</i> | | 11/16/10 | | | | | |
| sheet index | | revision sheet | | A 1 | | A 2 | | A 3 | | A 4 | |
| | | | | A 5 | | A 6 | | | | Rev. A | |

CAT. NO. & DIMENSIONS

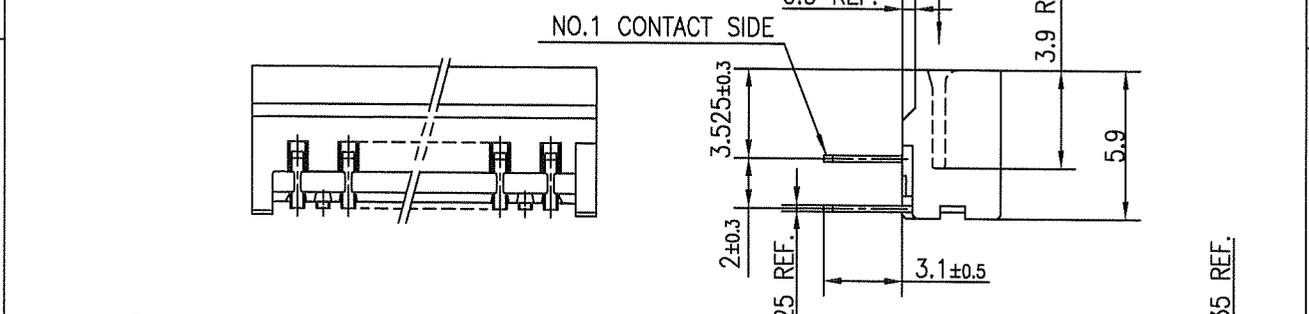
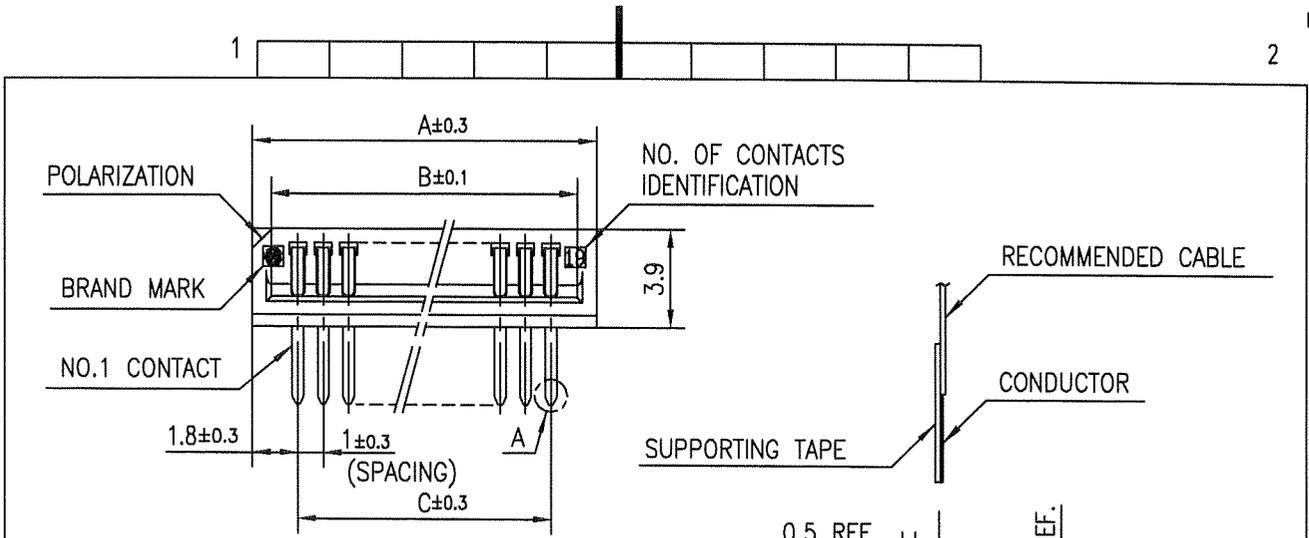
| NO. OF CONTACTS (n) | CAT. NO. | | DIMENSIONS (NOTE1) | | |
|---------------------|------------------|-----------------|--------------------|---------|---------|
| | RIGHT ANGLE TYPE | STRAIGHT TYPE | A ± 0.3 | B ± 0.1 | C ± 0.3 |
| 4 | HLW 4 R-2A7HLF | HLW 4 S-2A7HLF | 6.6 | 5.12 | 3.0 |
| 5 | HLW 5 R-2A7HLF | HLW 5 S-2A7HLF | 7.6 | 6.12 | 4.0 |
| 6 | HLW 6 R-2A7HLF | HLW 6 S-2A7HLF | 8.6 | 7.12 | 5.0 |
| 7 | HLW 7 R-2A7HLF | HLW 7 S-2A7HLF | 9.6 | 8.12 | 6.0 |
| 8 | HLW 8 R-2A7HLF | HLW 8 S-2A7HLF | 10.6 | 9.12 | 7.0 |
| 9 | HLW 9 R-2A7HLF | HLW 9 S-2A7HLF | 11.6 | 10.12 | 8.0 |
| 10 | HLW 10 R-2A7HLF | HLW 10 S-2A7HLF | 12.6 | 11.12 | 9.0 |
| 11 | HLW 11 R-2A7HLF | HLW 11 S-2A7HLF | 13.6 | 12.12 | 10.0 |
| 12 | HLW 12 R-2A7HLF | HLW 12 S-2A7HLF | 14.6 | 13.12 | 11.0 |
| 13 | HLW 13 R-2A7HLF | HLW 13 S-2A7HLF | 15.6 | 14.12 | 12.0 |
| 14 | HLW 14 R-2A7HLF | HLW 14 S-2A7HLF | 16.6 | 15.12 | 13.0 |
| 15 | HLW 15 R-2A7HLF | HLW 15 S-2A7HLF | 17.6 | 16.12 | 14.0 |
| 16 | HLW 16 R-2A7HLF | HLW 16 S-2A7HLF | 18.6 | 17.12 | 15.0 |
| 17 | HLW 17 R-2A7HLF | HLW 17 S-2A7HLF | 19.6 | 18.12 | 16.0 |
| 18 | HLW 18 R-2A7HLF | HLW 18 S-2A7HLF | 20.6 | 19.12 | 17.0 |
| 19 | HLW 19 R-2A7HLF | HLW 19 S-2A7HLF | 21.6 | 20.12 | 18.0 |
| 20 | HLW 20 R-2A7HLF | HLW 20 S-2A7HLF | 22.6 | 21.12 | 19.0 |
| 21 | HLW 21 R-2A7HLF | HLW 21 S-2A7HLF | 23.6 | 22.12 | 20.0 |
| 22 | HLW 22 R-2A7HLF | HLW 22 S-2A7HLF | 24.6 | 23.12 | 21.0 |
| 23 | HLW 23 R-2A7HLF | HLW 23 S-2A7HLF | 25.6 | 24.12 | 22.0 |
| 24 | HLW 24 R-2A7HLF | HLW 24 S-2A7HLF | 26.6 | 25.12 | 23.0 |
| 25 | HLW 25 R-2A7HLF | HLW 25 S-2A7HLF | 27.6 | 26.12 | 24.0 |
| 26 | HLW 26 R-2A7HLF | HLW 26 S-2A7HLF | 28.6 | 27.12 | 25.0 |
| 27 | HLW 27 R-2A7HLF | HLW 27 S-2A7HLF | 29.6 | 28.12 | 26.0 |
| 28 | HLW 28 R-2A7HLF | HLW 28 S-2A7HLF | 30.6 | 29.12 | 27.0 |
| 29 | HLW 29 R-2A7HLF | HLW 29 S-2A7HLF | 31.6 | 30.12 | 28.0 |
| 30 | HLW 30 R-2A7HLF | HLW 30 S-2A7HLF | 32.6 | 31.12 | 29.0 |
| 31 | HLW 31 R-2A7HLF | HLW 31 S-2A7HLF | 33.6 | 32.12 | 30.0 |
| 32 | HLW 32 R-2A7HLF | HLW 32 S-2A7HLF | 34.6 | 33.12 | 31.0 |



NOTES

1. SEE PART DRAWINGS FOR DIMENSIONS A~C.

| | | | | | | | | |
|-------------|----------------|----|------|---------------------------------------|---------------------------------|----------------|--|---------|
| mat'l. code | | | | surface 58 / ISO 1302 | tolerance ISO 406 / ISO 1101 | projection | product family 58PF/QF | CODE JP |
| ltr A | ecn no | dr | date | tolerances unless otherwise specified | | mm | title CAT NO. TABLE FOR 1mm SPACING CONNECTOR (Cat. No. HLW__R/S-2A7HLF) | |
| | | | | angles | linear | scale \times | dwg no 10039761 sheet 2 of 6 size A4 | |
| | | | | dr | <i>S. H. Chandra 2010-11-16</i> | | type Product Customer Drawing | |
| | | | | engr | <i>B. K. Chandra 2010-11-16</i> | | | Rev. A |
| | | | | chr | <i>K. Ramana 2010-11-16</i> | | | |
| | | | | appd | <i>[Signature] 11/16/10</i> | | | |
| sheet index | revision sheet | | | | | | | |



MATERIAL

INSULATOR : LCP RESIN GLASS REINFORCED (UL94V-0)
 COLOR : BLACK
 CONTACT : PHOSPHER BRONZE
 PLATNG : TIN

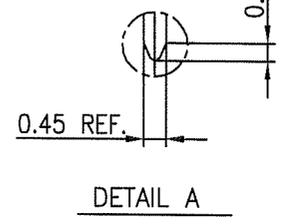
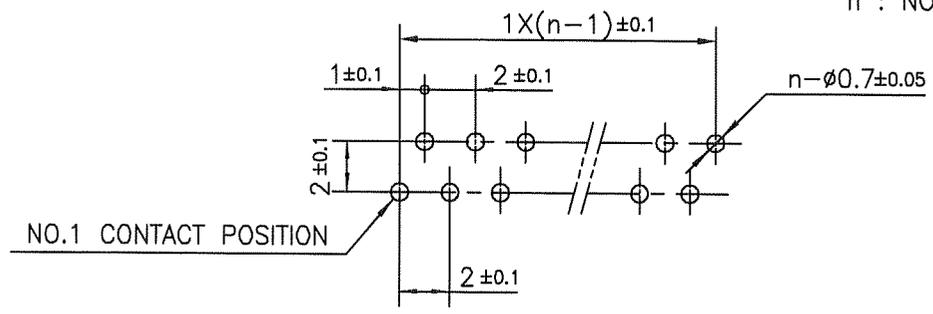
NOTE

- 1.THIS PRODUCT IS RIGHT ANGLE TYPE CONNECTOR.
- 2.THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- 3.THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

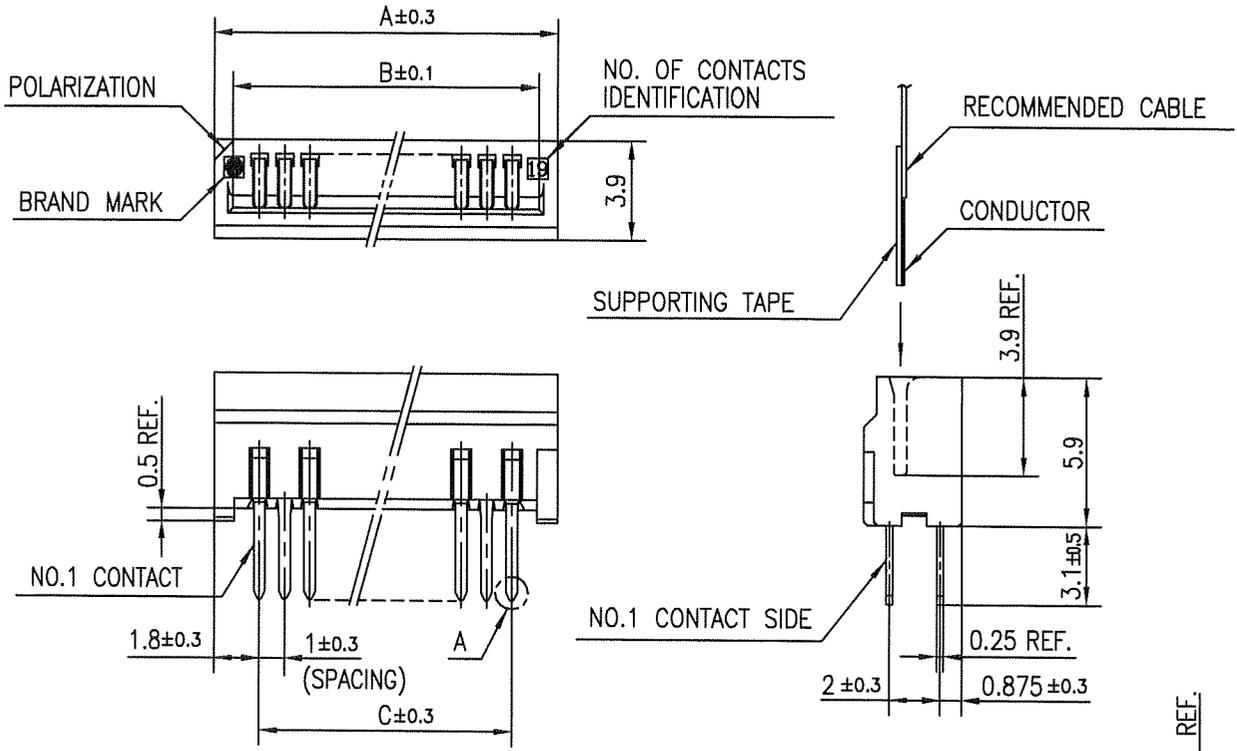
RECOMMENDED PC BORAD

THICKNESS : 1.2~1.6
 HOLE PATTERN (COMPONENT SIDE)

n : NO. OF CONTACTS



| | | | | | | | | | | | | |
|-------------|----------------|-----------------------|------|---------------------------------------|-------------|----------------|--|---|--|------------|--|--|
| mat'l. code | | surface ISO 1302 ✓ | | tolerance ISO 406 ISO 1101 | | projection | | product family 58PF | | CODE JP | | |
| ltr | ecn no | dr | date | tolerances unless otherwise specified | | mm | | title 1mm SPACING CONNECTOR FOR FPC/FFC (Cat. No. HLW__R-2A7HLF) | | | | |
| A | | | | angles | linear | scale X | | dwg no 10039761 | | | | |
| | | | | dr | S. Watanabe | 2010-11-16 | | sheet 3 of 6 | | size A4 | | |
| | | | | enr | S. Watanabe | 2010-11-16 | | type Product Customer Drawing | | Rev. A | | |
| | | | | chr | T. Yamada | 2010-11-16 | | | | | | |
| | | | | appd | M. Kimura | 11/16/10 | | | | | | |
| sheet index | revision sheet | | | | | | | | | | | |

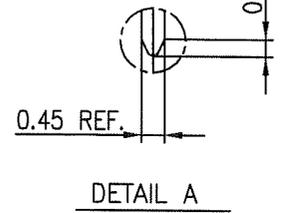


MATERIAL

INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)
 COLOR : BLACK
 CONTACT : PHOSPHER BRONZE
 PLATING : TIN

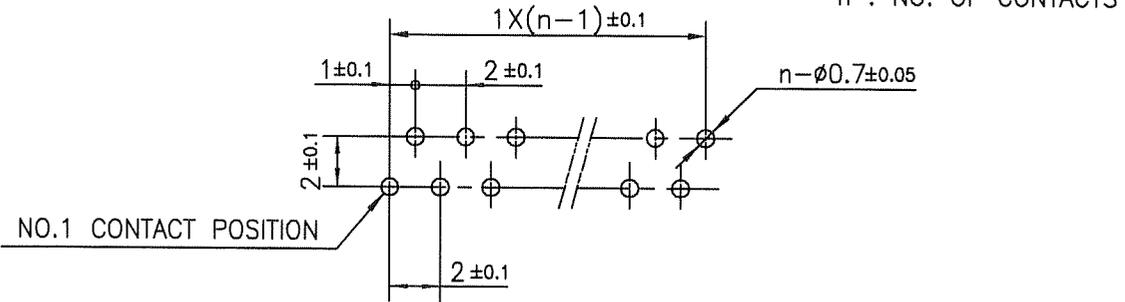
NOTE

1. THIS PRODUCT IS RIGHT ANGLE TYPE CONNECTOR.
2. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
3. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.



RECOMMENDED PC BOARD

THICKNESS : 1.2~1.6
 HOLE PATTERN (COMPONENT SIDE)

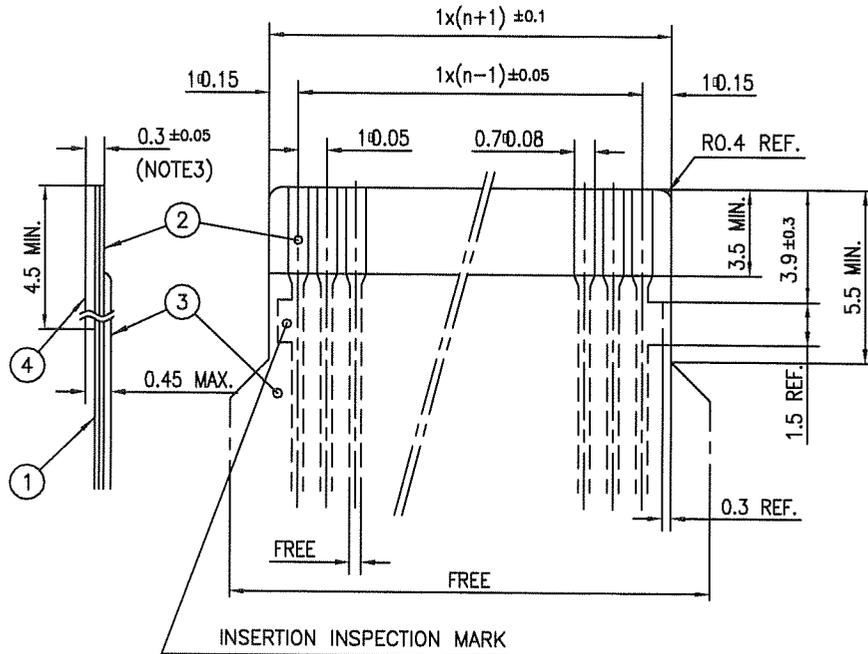


| | | | | | | | | | | | | | |
|-------------|--|----------------|--|---------------------------------------|--|------------------------------|--|-----------------|--|---------------------|--|---|--|
| mat'l. code | | | | surface 58 / ISO 1302 ✓ | | tolerance ISO 406 / ISO 1101 | | projection | | product family 58QF | | CODE JP | |
| ltr A | | | | ecn no | | dr | | date | | title | | 1mm SPACING CONNECTOR FOR FPC/FFC (Cat. No. HLW_S-2A7HLF) | |
| | | | | tolerances unless otherwise specified | | ±0.2 | | mm | | dwg no | | sheet 4 of 6 size A4 | |
| | | | | angles linear | | | | scale \propto | | 10039761 | | | |
| | | | | dr | | S. Watanabe 2010-11-16 | | | | type | | Product Customer Drawing | |
| | | | | enrg | | S. Watanabe 2010-11-16 | | | | | | | |
| | | | | chr | | Y. Kamada 2010-11-16 | | | | | | | |
| | | | | appd | | M. Kamei NMB/RO | | | | | | | |
| sheet index | | revision sheet | | | | | | | | | | Rev. A | |

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RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTORS



| PT. NO. | DESCRIPTION | MATERIAL | THICKNESS (*m) |
|---------|-----------------|--|----------------|
| 1 | BASE FILM | POLYIMIDE OR POLYESTER OR EQUIVALENT | 25 |
| 2 | CONDUCTOR | COPPER FOIL (PLATING : TIN or SOLDER 1*m MIN.) | 35 |
| 3 | OVERLAY | POLYIMIDE OR POLYESTER OR EQUIVALENT | — |
| 4 | SUPPORTING TAPE | POLYESTER OR POLYIMIDE OR EQUIVALENT | 188 |

NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.

| | | | | | | |
|-------------|--------|--|------------------------|--|--|-------------------------------|
| mat'l. code | | surface 58 / tolerance ISO 1302 ✓ ISO 406 ISO 1101 | | projection | product family 58PF/QF | CODE JP |
| ltr | ecn no | dr | date | tolerances, unless otherwise specified | title RECOMMENDED CABLE (FPC) (Cat. No. HLW__R/S-__LF) | dwg no 10039761 |
| A | | | | angles linear | | |
| sheet index | | revision sheet | dr | engr | scale X | sheet 5 of 6 size A4 |
| | | | S. Watanabe 2010-11-16 | chr | FCI | type Product Customer Drawing |
| | | | S. Watanabe 2010-11-16 | appd | | |
| | | | Y. Yamada 2010-11-16 | | | |
| | | | M. Komatsu NDV1610 | | | |



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