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## CONFIGURATION OF CUSTOMER DOCUMENTS

| P/N           | DOCUMENTS | DWG. NO.   | TITLE                                               |
|---------------|-----------|------------|-----------------------------------------------------|
| HLW_R/S-2C7LF | SPEC      | SC-HLW05   | CONNECTOR USED FOR FPC/FFC WITH 1mm CONTACT SPACING |
|               | CONNECTOR | JSA96403   | CAT NO.TABLE FOR 1mm SPACING CONNECTOR              |
|               |           | JSA96405   | 1mm SPACING CONNECTOR FOR FPC/FFC                   |
|               |           | JSA96406   | 1mm SPACING CONNECTOR FOR FPC/FFC                   |
|               | CABLE     | JSA93382   | RECOMMENDED CABLE(FPC)                              |
|               |           | JSA93383   | RECOMMENDED CABLE(FFC)                              |
|               | MANUAL    | BJM-HLW101 | HANDLING PROCEDURES AND REMARKS                     |

| P/N           | DOCUMENTS | DWG. NO.   | TITLE                                           |
|---------------|-----------|------------|-------------------------------------------------|
| HLW_R/S-6C7LF | SPEC      | SC-HLW06   | CONNECTOR USED FOR C/C WITH 1mm CONTACT SPACING |
|               | CONNECTOR | JSA96404   | CAT NO.TABLE FOR 1mm SPACING CONNECTOR          |
|               |           | JSA96407   | 1mm SPACING CONNECTOR FOR C/C                   |
|               |           | JSA96408   | 1mm SPACING CONNECTOR FOR C/C                   |
|               | CABLE     | JSA93626   | RECOMMENDED CABLE(C/C)                          |
|               | MANUAL    | BJM-HLW102 | 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         | ecn no         | dr  | date    | tolerances unless otherwise specified                                                                         |         |                 |  | title 1mm SPACING CONNECTOR DOCUMENT LIST (Cat. No. HLW_R/S-2/6C7LF) |  |         |        |
| A           | J05-0270       | H.T | 5/11/05 | angles                                                                                                        | linear  |                 |  |                                                                      |  |         |        |
| B           | J05-0293       | H.T | 5/18/05 |                                                                                                               |         | scale $\propto$ |  | dwg no JSA96418 sheet 1 of 1 size A4                                 |  |         |        |
| C           | J05-0517       | H.T | 8/11/05 |                                                                                                               |         |                 |  |                                                                      |  |         |        |
| D           | J06-0449       | H.T | 11/2/06 | dr                                                                                                            | 11/2/06 |                 |  | type Product Customer Drawing                                        |  |         |        |
|             |                |     |         | enrg                                                                                                          | 11/2/06 |                 |  |                                                                      |  |         |        |
|             |                |     |         | chr                                                                                                           | 11/2/06 |                 |  |                                                                      |  |         |        |
|             |                |     |         | appd                                                                                                          | 11/2/06 |                 |  |                                                                      |  |         |        |
| sheet index | revision sheet | D 1 |         |                                                                                                               |         |                 |  |                                                                      |  |         | Rev. D |

form: A4

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## CAT. NO. &amp; DIMENSIONS

| NO. OF CONTACTS (n) | CAT. NO.         |               | DIMENSIONS (NOTE1) |         |      |
|---------------------|------------------|---------------|--------------------|---------|------|
|                     | RIGHT ANGLE TYPE | STRAIGHT TYPE | A ± 0.3            | B ± 0.1 | C    |
| 4                   | HLW 4R-2C7LF     | HLW 4S-2C7LF  | 6.6                | 5.12    | 3.0  |
| 5                   | HLW 5R-2C7LF     | HLW 5S-2C7LF  | 7.6                | 6.12    | 4.0  |
| 6                   | HLW 6R-2C7LF     | HLW 6S-2C7LF  | 8.6                | 7.12    | 5.0  |
| 7                   | HLW 7R-2C7LF     | HLW 7S-2C7LF  | 9.6                | 8.12    | 6.0  |
| 8                   | HLW 8R-2C7LF     | HLW 8S-2C7LF  | 10.6               | 9.12    | 7.0  |
| 9                   | HLW 9R-2C7LF     | HLW 9S-2C7LF  | 11.6               | 10.12   | 8.0  |
| 10                  | HLW10R-2C7LF     | HLW10S-2C7LF  | 12.6               | 11.12   | 9.0  |
| 11                  | HLW11R-2C7LF     | HLW11S-2C7LF  | 13.6               | 12.12   | 10.0 |
| 12                  | HLW12R-2C7LF     | HLW12S-2C7LF  | 14.6               | 13.12   | 11.0 |
| 13                  | HLW13R-2C7LF     | HLW13S-2C7LF  | 15.6               | 14.12   | 12.0 |
| 14                  | HLW14R-2C7LF     | HLW14S-2C7LF  | 16.6               | 15.12   | 13.0 |
| 15                  | HLW15R-2C7LF     | HLW15S-2C7LF  | 17.6               | 16.12   | 14.0 |
| 16                  | HLW16R-2C7LF     | HLW16S-2C7LF  | 18.6               | 17.12   | 15.0 |
| 17                  | HLW17R-2C7LF     | HLW17S-2C7LF  | 19.6               | 18.12   | 16.0 |
| 18                  | HLW18R-2C7LF     | HLW18S-2C7LF  | 20.6               | 19.12   | 17.0 |
| 19                  | HLW19R-2C7LF     | HLW19S-2C7LF  | 21.6               | 20.12   | 18.0 |
| 20                  | HLW20R-2C7LF     | HLW20S-2C7LF  | 22.6               | 21.12   | 19.0 |
| 21                  | HLW21R-2C7LF     | HLW21S-2C7LF  | 23.6               | 22.12   | 20.0 |
| 22                  | HLW22R-2C7LF     | HLW22S-2C7LF  | 24.6               | 23.12   | 21.0 |
| 23                  | HLW23R-2C7LF     | HLW23S-2C7LF  | 25.6               | 24.12   | 22.0 |
| 24                  | HLW24R-2C7LF     | HLW24S-2C7LF  | 26.6               | 25.12   | 23.0 |
| 25                  | HLW25R-2C7LF     | HLW25S-2C7LF  | 27.6               | 26.12   | 24.0 |
| 26                  | HLW26R-2C7LF     | HLW26S-2C7LF  | 28.6               | 27.12   | 25.0 |
| 27                  | HLW27R-2C7LF     | HLW27S-2C7LF  | 29.6               | 28.12   | 26.0 |
| 28                  | HLW28R-2C7LF     | HLW28S-2C7LF  | 30.6               | 29.12   | 27.0 |
| 29                  | HLW29R-2C7LF     | HLW29S-2C7LF  | 31.6               | 30.12   | 28.0 |
| 30                  | HLW30R-2C7LF     | HLW30S-2C7LF  | 32.6               | 31.12   | 29.0 |
| 31                  | HLW31R-2C7LF     | HLW31S-2C7LF  | 33.6               | 32.12   | 30.0 |
| 32                  | HLW32R-2C7LF     | HLW32S-2C7LF  | 34.6               | 33.12   | 31.0 |

CAT. NO. HLW (n) R - 2C7 LF

SERIES \_\_\_\_\_

NO. OF CONTACTS \_\_\_\_\_

R : RIGHT ANGLE TYPE

S : STRAIGHT TYPE

VARIATION \_\_\_\_\_

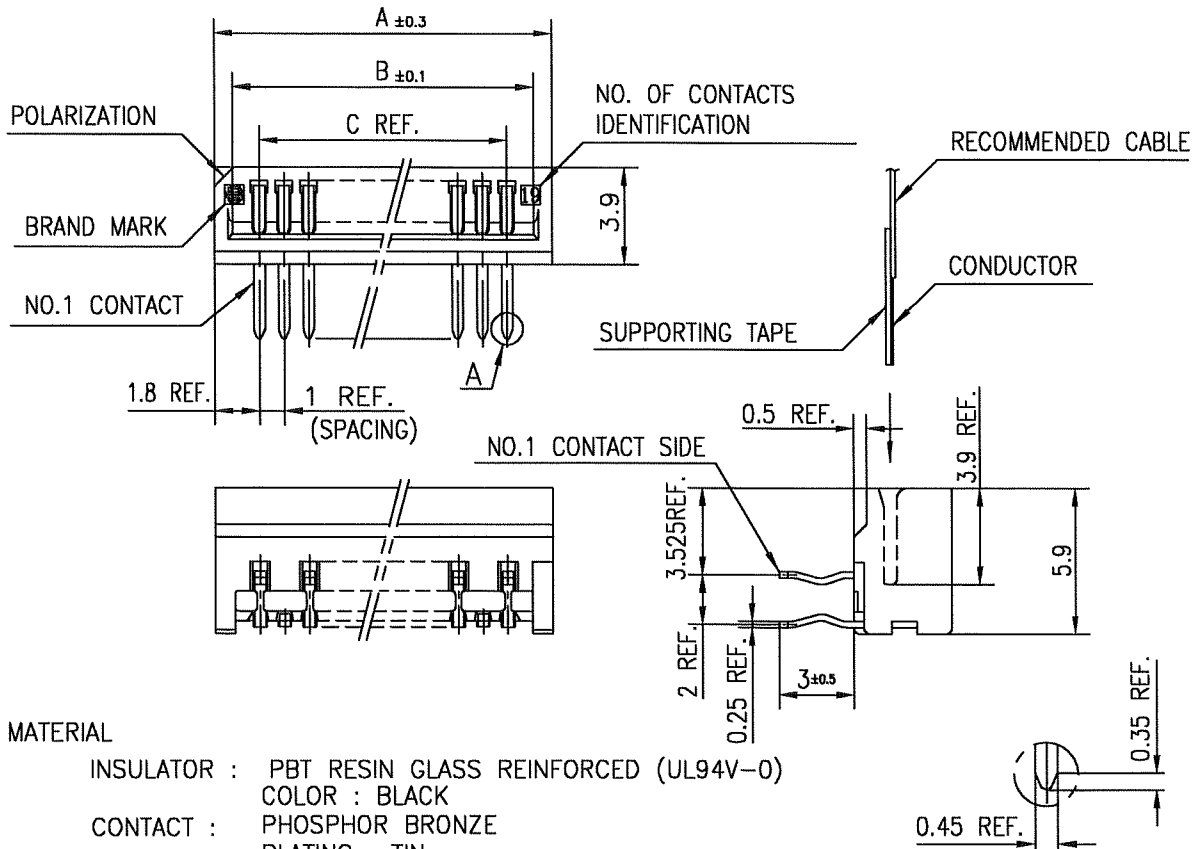
LEAD FREE \_\_\_\_\_

## NOTES

1. SEE PART DRAWINGS FOR DIMENSIONS A~C.

|             |          |          |         |                                           |         |            |  |                                                                                 |           |                          |              |      |
|-------------|----------|----------|---------|-------------------------------------------|---------|------------|--|---------------------------------------------------------------------------------|-----------|--------------------------|--------------|------|
| mat'l. code |          |          |         | surface 58 / tolerance ISO 406 / ISO 1101 |         | projection |  | product family 58PF/QF                                                          |           | CODE JP                  |              |      |
| ltr         | ecn no   | dr       | date    | tolerances unless otherwise specified     |         |            |  | title CAT NO. TABLE FOR<br>1mm SPACING CONNECTOR<br>(Cat. No. : HLW__R/S-2C7LF) |           |                          |              |      |
| A           | J05-0270 | H.T      | 5/10/05 | angles                                    | linear  | mm         |  |                                                                                 |           |                          |              |      |
| B           | J06-0449 | H.T      | 11/2/06 |                                           |         | scale X    |  |                                                                                 |           |                          |              |      |
|             |          |          |         | dr                                        | 11/2/06 |            |  |                                                                                 | dwg no    |                          | sheet 1 of 1 | size |
|             |          |          |         | engr                                      | 11/2/06 |            |  |                                                                                 | JSA 96403 |                          | A4           |      |
|             |          |          |         | chr                                       | 11/2/06 |            |  |                                                                                 |           |                          |              |      |
|             |          |          |         | appd                                      | 11/7/06 |            |  |                                                                                 |           |                          |              |      |
| sheet index |          | revision | B       |                                           |         |            |  | type                                                                            |           | Product Customer Drawing |              |      |
| sheet       |          | 1        |         |                                           |         |            |  |                                                                                 |           | Rev. B                   |              |      |

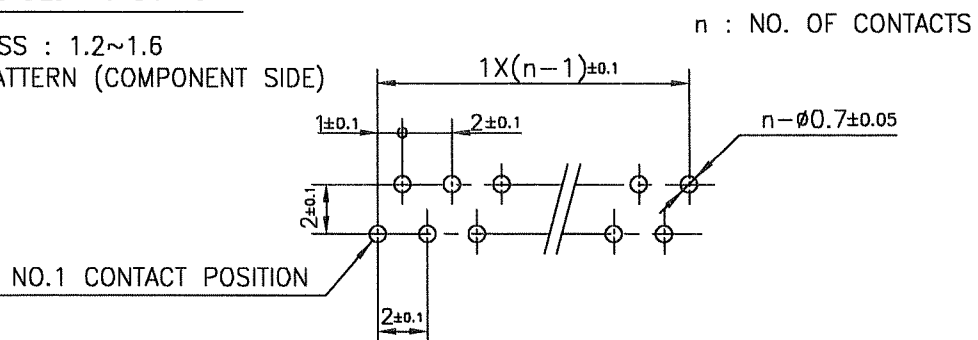
SC-HLW05 form: A4 JSA96405 96406 93382 93383



- MATERIAL**
- INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)  
 COLOR : BLACK  
 CONTACT : PHOSPHOR 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 WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

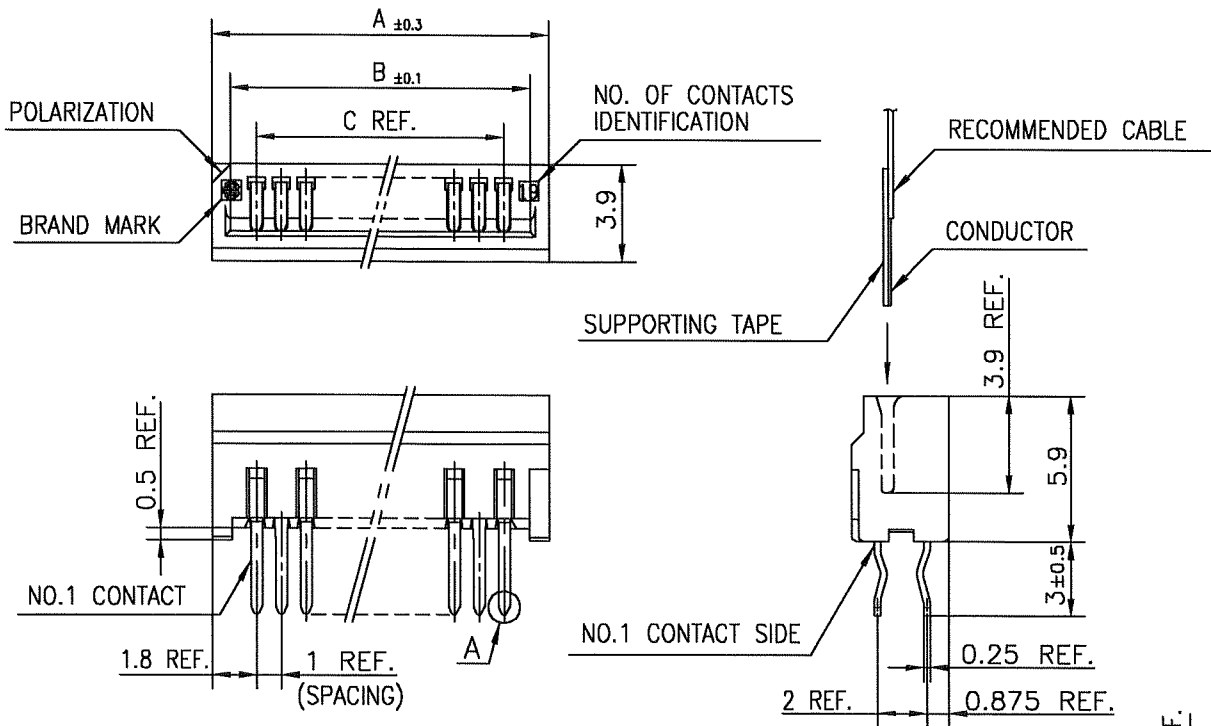
#### RECOMMENDED PC BOARD

THICKNESS : 1.2~1.6  
 HOLE PATTERN (COMPONENT SIDE)



|             |          |     |          |                                       |           |            |                                                                  |              |
|-------------|----------|-----|----------|---------------------------------------|-----------|------------|------------------------------------------------------------------|--------------|
| mat'l. code |          |     |          | surface 58                            | tolerance | projection | product family                                                   | CODE         |
|             |          |     |          | ISO 1302                              | ISO 406   | ISO 1101   | 58PF                                                             | JP           |
| ltr         | ecn no   | dr  | date     | tolerances unless otherwise specified |           | mm         | title                                                            |              |
| A           | J05-0270 | H.T | 5/10/05  | angles                                | linear    |            |                                                                  |              |
| B           | J05-0735 | H.T | 10/28/05 |                                       |           |            | 1mm SPACING<br>CONNECTOR FOR FPC/FFC<br>(Cat. No. :HLW__R-2C7LF) |              |
| C           | J06-0449 | H.T | 11/2/06  |                                       |           | scale X    |                                                                  |              |
|             |          |     |          | dr                                    | 11/2/06   | FCI        | dwg no                                                           | sheet 1 of 1 |
|             |          |     |          | enr                                   | 11/2/06   |            | JSA 96405                                                        | size         |
|             |          |     |          | chr                                   | 11/2/06   |            |                                                                  | A4           |
|             |          |     |          | appd                                  | 11/2/06   |            | type Product Customer Drawing                                    |              |
| sheet       | revision | C   |          |                                       |           |            |                                                                  | Rev.         |
| index       | sheet    | 1   |          |                                       |           |            |                                                                  | C            |

SC-HLW05 JSA96403  
 form: A4



#### MATERIAL

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

NOTE 1. THIS PRODUCT IS STRAIGHT TYPE CONNECTOR.

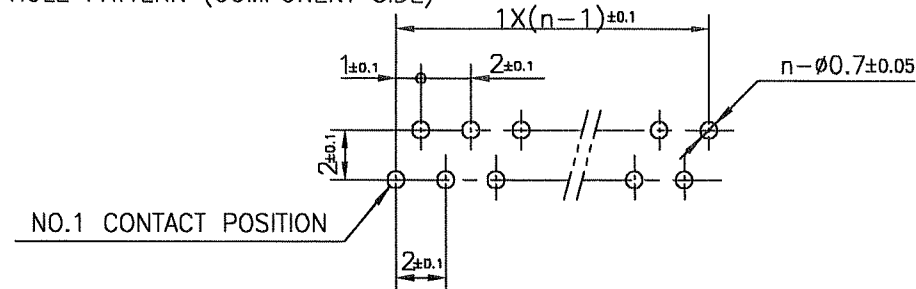
2. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

3. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

#### RECOMMENDED PC BOARD

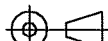
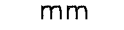
THICKNESS : 1.2~1.6

HOLE PATTERN (COMPONENT SIDE)



DETAIL A

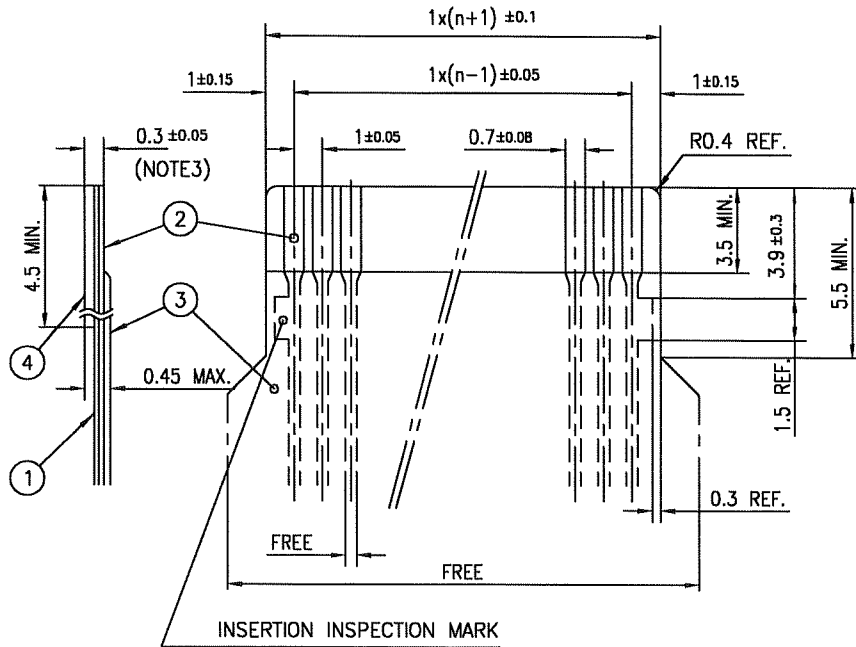
n : NO. OF CONTACTS

|             |          |     |          |                                       |                            |                                  |                               |                                                                                                   |  |                                                                                     |  |                                                                           |            |            |  |  |  |
|-------------|----------|-----|----------|---------------------------------------|----------------------------|----------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|------------|------------|--|--|--|
| mat'l. code |          |     |          | surface 58 ✓<br>ISO 1302              |                            | tolerance<br>ISO 406<br>ISO 1101 |                               | projection<br> |  | product family<br>58QF                                                              |  |                                                                           |            | CODE<br>JP |  |  |  |
| ltr         | ecn no   | dr  | date     | tolerances unless otherwise specified |                            |                                  |                               |                                                                                                   |  |  |  | title<br>1mm SPACING<br>CONNECTOR FOR FPC/FFC<br>(Cat. No. :HLW__S-2C7LF) |            |            |  |  |  |
| A           | J05-0270 | H.T | 5/10/05  | angles                                | linear                     | ±0.2                             |                               | scale $\propto$                                                                                   |  |                                                                                     |  |                                                                           |            |            |  |  |  |
| B           | J05-0735 | H.T | 10/28/05 |                                       |                            |                                  |                               |                                                                                                   |  |  |  |                                                                           |            |            |  |  |  |
| C           | J06-0449 | H.T | 11/2/06  |                                       |                            |                                  |                               | dwg no<br>JSA 96406                                                                               |  |                                                                                     |  |                                                                           |            |            |  |  |  |
|             |          |     |          | dr                                    | <i>[Signature]</i> 11/2/06 |                                  | sheet 1 of 1                  |                                                                                                   |  |                                                                                     |  |                                                                           |            |            |  |  |  |
|             |          |     |          | enr                                   | <i>[Signature]</i> 11/2/06 |                                  |                               |                                                                                                   |  |                                                                                     |  |                                                                           | size<br>A4 |            |  |  |  |
|             |          |     |          | chr                                   | <i>R. Shoups</i> 11/2/06   |                                  | type Product Customer Drawing |                                                                                                   |  |                                                                                     |  |                                                                           |            |            |  |  |  |
|             |          |     |          | appd                                  | <i>S. Delam</i> 11/7/06    |                                  |                               |                                                                                                   |  |                                                                                     |  |                                                                           |            |            |  |  |  |
| sheet index | revision | C   |          |                                       |                            |                                  |                               |                                                                                                   |  |                                                                                     |  |                                                                           |            |            |  |  |  |
|             | sheet    | 1   |          |                                       |                            |                                  |                               |                                                                                                   |  |                                                                                     |  |                                                                           |            |            |  |  |  |

SC-HLW05 JSA96403  
 form: A4

RECOMMENDED CABLE (FPC)

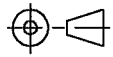
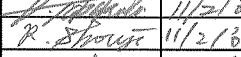
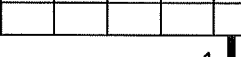
n : NO. OF CONDUCTORS



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

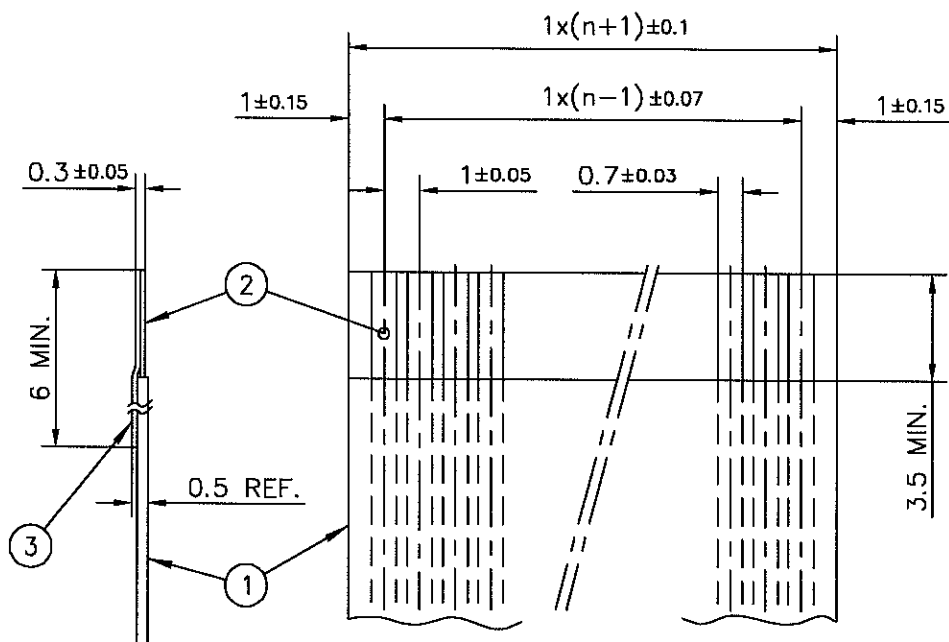
NOTES

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                                                                               |  |           |  |              |         |
| AA          | J05-0270 | H.T            | 5/11/05 |                                                                                                  |  |                                                                                                |  | RECOMMENDED CABLE (FPC)                                                             |  |           |  |              |         |
| AB          | J06-0449 | H.T            | 11/2/06 |                                                                                                  |  |                                                                                                |  | (Cat. No. HLW__R/S-__)                                                              |  |           |  |              |         |
|             |          |                |         |                                                                                                  |  |                                                                                                |  | mm                                                                                  |  |           |  |              |         |
|             |          |                |         |                                                                                                  |  |                                                                                                |  | scale X                                                                             |  |           |  |              |         |
|             |          |                |         | dr  11/2/06   |  |                                                                                                |  |  |  | dwg no    |  | sheet 1 of 1 | size    |
|             |          |                |         | enr  11/2/06  |  |                                                                                                |  |                                                                                     |  | JSA 93382 |  | A4           |         |
|             |          |                |         | chr  11/2/06  |  |                                                                                                |  |                                                                                     |  |           |  |              |         |
|             |          |                |         | appd  11/7/06 |  |                                                                                                |  |                                                                                     |  |           |  |              |         |
| sheet index |          | revision sheet |         | AB                                                                                               |  |                                                                                                |  |                                                                                     |  |           |  |              | Rev. AB |

## RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTORS



| PT. NO. | DESCRIPTION     | MATERIAL                                | NOTE                                |
|---------|-----------------|-----------------------------------------|-------------------------------------|
| 1       | INSULATOR       | FLAME RESISTING POLYESTER OR EQUIVALENT |                                     |
| 2       | CONDUCTOR       | COPPER FOIL                             | PLATING : TIN OR SOLDER<br>1μm MIN. |
| 3       | SUPPORTING TAPE | FLAME RESISTING POLYESTER OR EQUIVALENT |                                     |

## NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.

|             |          |     |         |                                       |  |                            |  |            |  |                         |  |                          |
|-------------|----------|-----|---------|---------------------------------------|--|----------------------------|--|------------|--|-------------------------|--|--------------------------|
| mat'l. code |          |     |         | surface 58/ISO 1302                   |  | tolerance ISO 406 ISO 1101 |  | projection |  | product family 58PF/QF  |  | CODE JP                  |
| litr        | ecn no   | dr  | date    | tolerances unless otherwise specified |  |                            |  | mm         |  | title                   |  |                          |
| AA          | J05-0270 | H.T | 5/11/05 |                                       |  |                            |  |            |  | RECOMMENDED CABLE (FFC) |  |                          |
| AB          | J06-0449 | H.T | 11/2/06 | angles linear                         |  |                            |  |            |  | (Cat. No. HLW_R/S-___)  |  |                          |
|             |          |     |         | dr                                    |  | 11/2/06                    |  | scale X    |  | dwg no                  |  | sheet 1 of 1 size        |
|             |          |     |         | enrg                                  |  | 11/2/06                    |  | FCI        |  | JSA 93383               |  | A4                       |
|             |          |     |         | chr                                   |  | 11/2/06                    |  |            |  | type                    |  | Product Customer Drawing |
|             |          |     |         | appd                                  |  | 11/2/06                    |  |            |  |                         |  |                          |
| sheet index | revision | AB  | 1       |                                       |  |                            |  |            |  |                         |  | Rev. AB                  |

form: A4

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## CAT. NO. &amp; DIMENSIONS

| NO. OF CONTACTS (n) | CAT. NO.         |               | DIMENSIONS (NOTE1) |         |      |
|---------------------|------------------|---------------|--------------------|---------|------|
|                     | RIGHT ANGLE TYPE | STRAIGHT TYPE | A ± 0.3            | B ± 0.1 | C    |
| 4                   | HLW 4R-6C7LF     | HLW 4S-6C7LF  | 6.6                | 5.12    | 3.0  |
| 5                   | HLW 5R-6C7LF     | HLW 5S-6C7LF  | 7.6                | 6.12    | 4.0  |
| 6                   | HLW 6R-6C7LF     | HLW 6S-6C7LF  | 8.6                | 7.12    | 5.0  |
| 7                   | HLW 7R-6C7LF     | HLW 7S-6C7LF  | 9.6                | 8.12    | 6.0  |
| 8                   | HLW 8R-6C7LF     | HLW 8S-6C7LF  | 10.6               | 9.12    | 7.0  |
| 9                   | HLW 9R-6C7LF     | HLW 9S-6C7LF  | 11.6               | 10.12   | 8.0  |
| 10                  | HLW10R-6C7LF     | HLW10S-6C7LF  | 12.6               | 11.12   | 9.0  |
| 11                  | HLW11R-6C7LF     | HLW11S-6C7LF  | 13.6               | 12.12   | 10.0 |
| 12                  | HLW12R-6C7LF     | HLW12S-6C7LF  | 14.6               | 13.12   | 11.0 |
| 13                  | HLW13R-6C7LF     | HLW13S-6C7LF  | 15.6               | 14.12   | 12.0 |
| 14                  | HLW14R-6C7LF     | HLW14S-6C7LF  | 16.6               | 15.12   | 13.0 |
| 15                  | HLW15R-6C7LF     | HLW15S-6C7LF  | 17.6               | 16.12   | 14.0 |
| 16                  | HLW16R-6C7LF     | HLW16S-6C7LF  | 18.6               | 17.12   | 15.0 |
| 17                  | HLW17R-6C7LF     | HLW17S-6C7LF  | 19.6               | 18.12   | 16.0 |
| 18                  | HLW18R-6C7LF     | HLW18S-6C7LF  | 20.6               | 19.12   | 17.0 |
| 19                  | HLW19R-6C7LF     | HLW19S-6C7LF  | 21.6               | 20.12   | 18.0 |
| 20                  | HLW20R-6C7LF     | HLW20S-6C7LF  | 22.6               | 21.12   | 19.0 |
| 21                  | HLW21R-6C7LF     | HLW21S-6C7LF  | 23.6               | 22.12   | 20.0 |
| 22                  | HLW22R-6C7LF     | HLW22S-6C7LF  | 24.6               | 23.12   | 21.0 |
| 23                  | HLW23R-6C7LF     | HLW23S-6C7LF  | 25.6               | 24.12   | 22.0 |
| 24                  | HLW24R-6C7LF     | HLW24S-6C7LF  | 26.6               | 25.12   | 23.0 |
| 25                  | HLW25R-6C7LF     | HLW25S-6C7LF  | 27.6               | 26.12   | 24.0 |
| 26                  | HLW26R-6C7LF     | HLW26S-6C7LF  | 28.6               | 27.12   | 25.0 |
| 27                  | HLW27R-6C7LF     | HLW27S-6C7LF  | 29.6               | 28.12   | 26.0 |
| 28                  | HLW28R-6C7LF     | HLW28S-6C7LF  | 30.6               | 29.12   | 27.0 |
| 29                  | HLW29R-6C7LF     | HLW29S-6C7LF  | 31.6               | 30.12   | 28.0 |
| 30                  | HLW30R-6C7LF     | HLW30S-6C7LF  | 32.6               | 31.12   | 29.0 |
| 31                  | HLW31R-6C7LF     | HLW31S-6C7LF  | 33.6               | 32.12   | 30.0 |
| 32                  | HLW32R-6C7LF     | HLW32S-6C7LF  | 34.6               | 33.12   | 31.0 |

CAT. NO. HLW (n) R - 6C7 LF

SERIES

NO. OF CONTACTS

R : RIGHT ANGLE TYPE

S : STRAIGHT TYPE

VARIATION

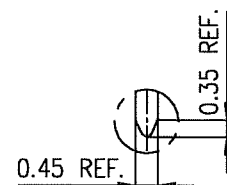
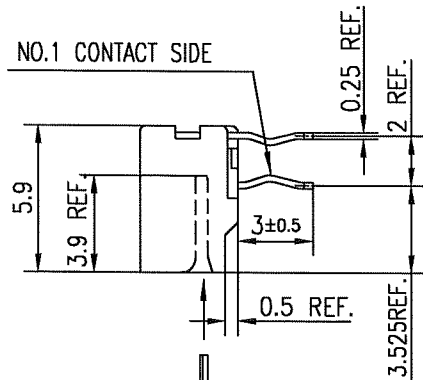
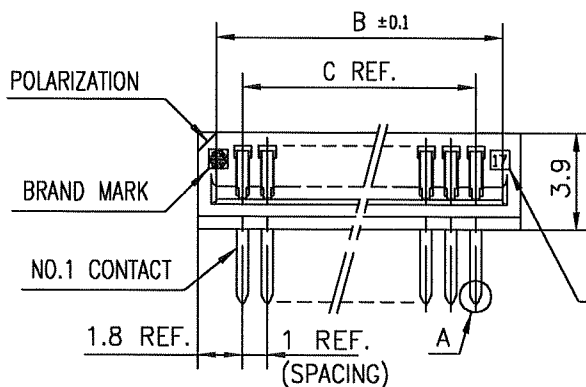
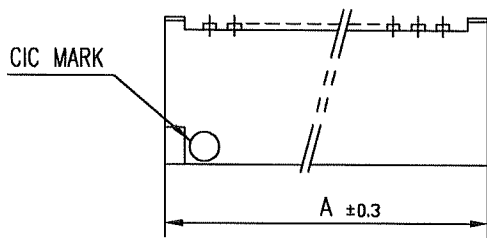
LEAD FREE

NOTES

1. SEE PART DRAWINGS FOR DIMENSIONS A~C.

|             |          |     |         |                                           |         |            |  |                                                                                    |  |         |  |
|-------------|----------|-----|---------|-------------------------------------------|---------|------------|--|------------------------------------------------------------------------------------|--|---------|--|
| mat'l. code |          |     |         | surface 58 / tolerance ISO 406 / ISO 1101 |         | projection |  | product family 58PF/QF                                                             |  | CODE JP |  |
| ltr         | ecn no   | dr  | date    | tolerances unless otherwise specified     |         |            |  | title<br>CAT NO. TABLE FOR<br>1mm SPACING CONNECTOR<br>(Cat. No. : HLW__R/S-6C7LF) |  |         |  |
| A           | J05-0270 | H.T | 5/10/05 | angles                                    | linear  | mm         |  |                                                                                    |  |         |  |
| B           | J06-0449 | H.T | 11/2/06 |                                           |         | scale X    |  | dwg no JSA 96404 sheet 1 of 1 size A4                                              |  |         |  |
|             |          |     |         | dr                                        | 11/2/06 |            |  |                                                                                    |  |         |  |
|             |          |     |         | engr                                      | 11/2/06 |            |  | type Product Customer Drawing                                                      |  |         |  |
|             |          |     |         | chr                                       | 11/2/06 |            |  |                                                                                    |  |         |  |
|             |          |     |         | appd                                      | 11/2/06 |            |  | Rev. B                                                                             |  |         |  |
|             |          |     |         |                                           |         |            |  |                                                                                    |  |         |  |
| sheet index | revision | B   | 1       |                                           |         |            |  |                                                                                    |  |         |  |

SC-HLW06 form: A4 JSA96407 96408 93626



#### MATERIAL

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

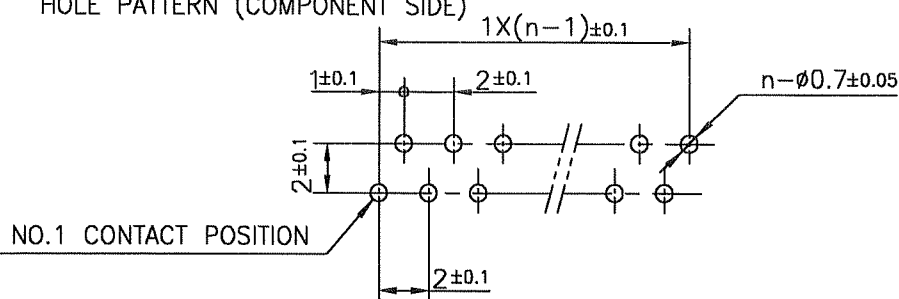
#### NOTE

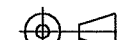
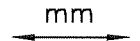
- 1.THIS PRODUCT IS RIGHT ANGLE TYPE CONNECTOR.
- 2.THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- 3.THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

#### RECOMMENDED PC BOARD

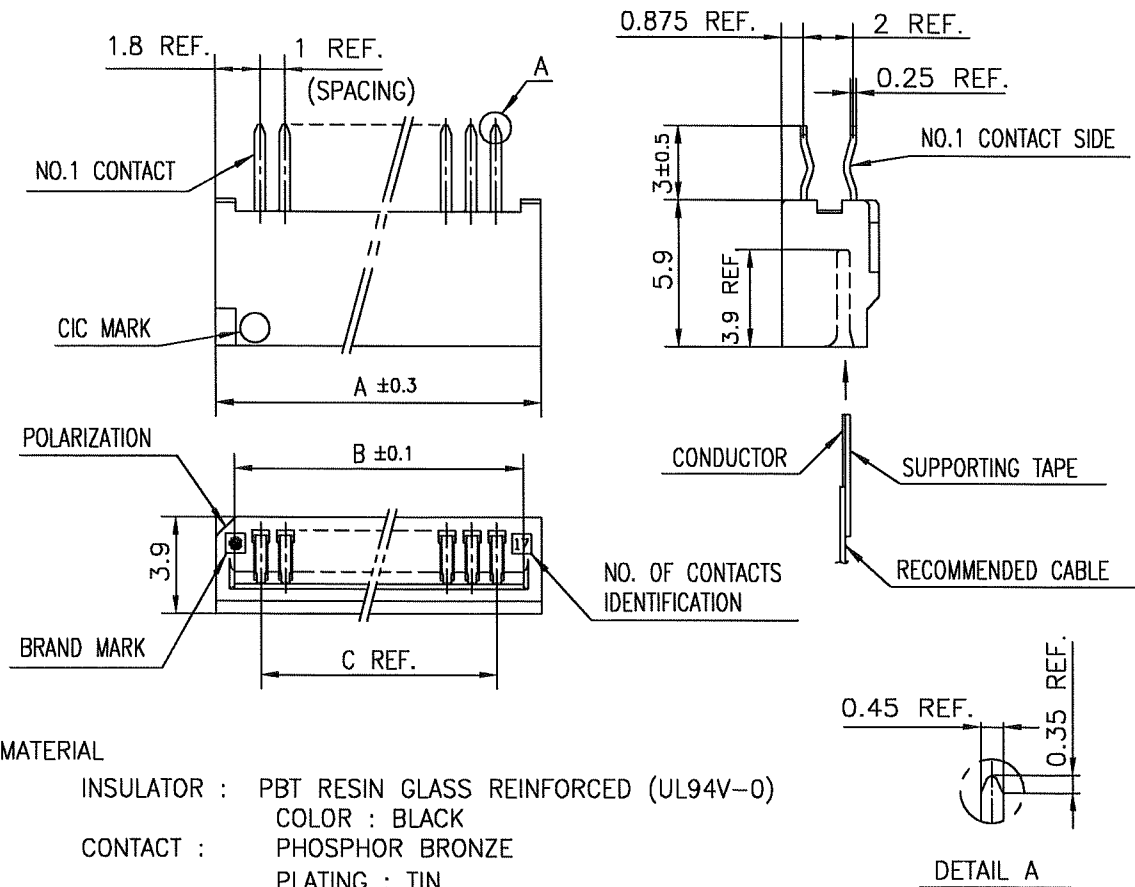
THICKNESS : 1.2~1.6  
 HOLE PATTERN (COMPONENT SIDE)

n : NO. OF CONTACTS



|                               |          |          |          |                                       |                   |                                  |                                                                                     |                                                                                                   |           |                                                                       |  |  |              |            |        |
|-------------------------------|----------|----------|----------|---------------------------------------|-------------------|----------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------|--|--|--------------|------------|--------|
| mat'l. code                   |          |          |          | surface 58 ✓<br>ISO 1302              |                   | tolerance<br>ISO 406<br>ISO 1101 |                                                                                     | projection<br> |           | product family<br>58PF                                                |  |  |              | CODE<br>JP |        |
| ltr                           | ecn no   | dr       | date     | tolerances unless otherwise specified |                   |                                  |                                                                                     |                |           | title<br>1mm SPACING<br>CONNECTOR FOR CIC<br>(Cat. No. :HLW__R-6C7LF) |  |  |              |            |        |
| A                             | J05-0270 | H.T      | 5/10/05  | angles                                | linear            | ±0.2                             |                                                                                     |                                                                                                   |           |                                                                       |  |  |              |            |        |
| B                             | J05-0735 | H.T      | 10/28/05 |                                       |                   |                                  |                                                                                     |                                                                                                   |           |                                                                       |  |  |              |            |        |
| C                             | J06-0449 | H.T      | 11/2/06  |                                       |                   |                                  |                                                                                     |                                                                                                   |           |                                                                       |  |  |              |            |        |
|                               |          |          |          | dr                                    | <i>H. Shounji</i> | <i>11/2/06</i>                   |  |                                                                                                   | dwg no    |                                                                       |  |  | sheet 1 of 1 | size       |        |
|                               |          |          |          | enr                                   | <i>H. Shounji</i> | <i>11/2/06</i>                   |                                                                                     |                                                                                                   | JSA 96407 |                                                                       |  |  | A4           |            |        |
|                               |          |          |          | chr                                   | <i>K. Shounji</i> | <i>11/2/06</i>                   |                                                                                     |                                                                                                   |           |                                                                       |  |  |              |            |        |
|                               |          |          |          | appd                                  | <i>S. Andam</i>   | <i>11/2/06</i>                   |                                                                                     |                                                                                                   |           |                                                                       |  |  |              |            |        |
| sheet index                   |          | revision |          | C                                     |                   |                                  |                                                                                     |                                                                                                   |           |                                                                       |  |  |              |            | Rev. c |
|                               |          | sheet    |          | 1                                     |                   |                                  |                                                                                     |                                                                                                   |           |                                                                       |  |  |              |            |        |
| type Product Customer Drawing |          |          |          |                                       |                   |                                  |                                                                                     |                                                                                                   |           |                                                                       |  |  |              |            |        |

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 form: A4

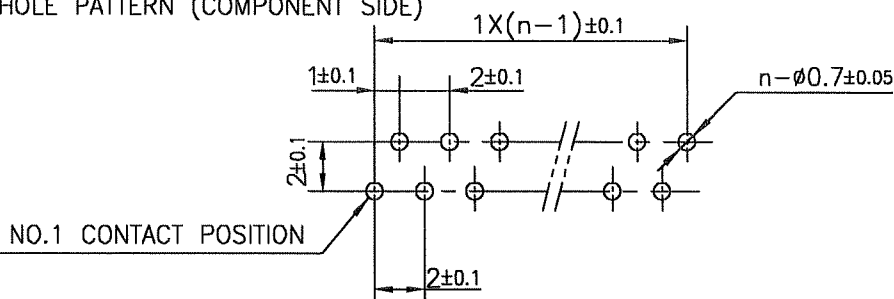


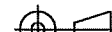
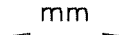
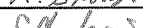
NOTE

1. THIS PRODUCT IS STRAIGHT 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 WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

RECOMMENDED PC BORAD

THICKNESS : 1.2~1.6  
 HOLE PATTERN (COMPONENT SIDE)

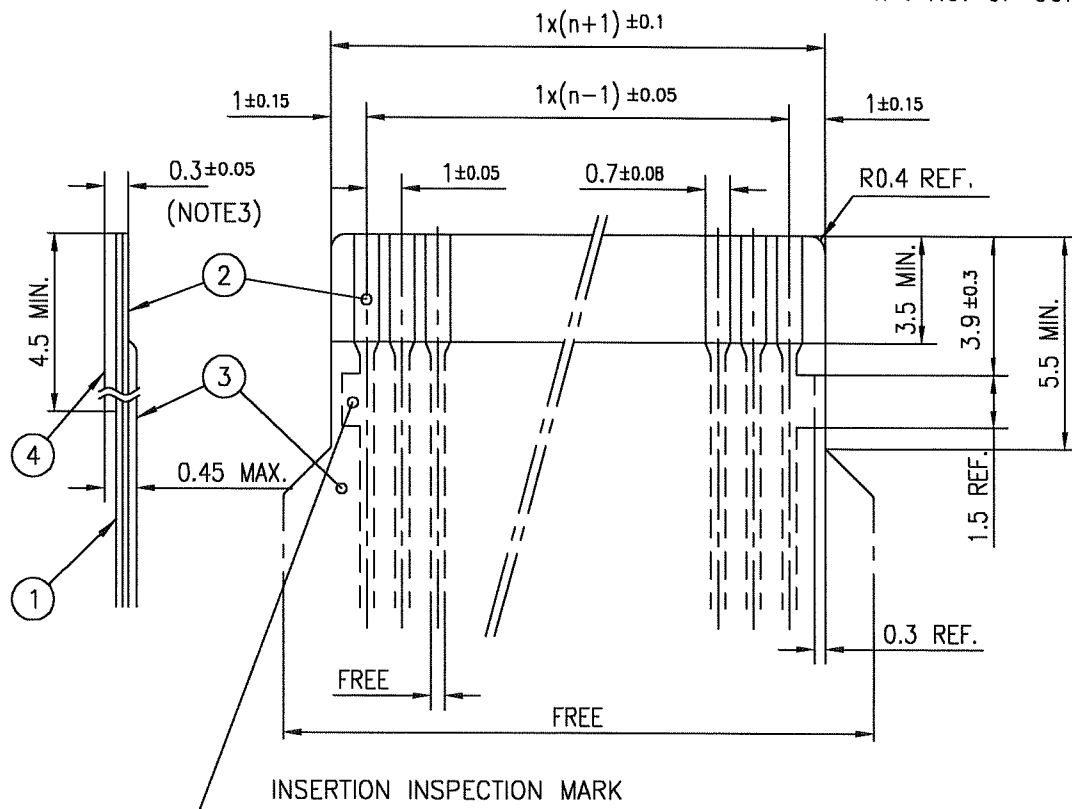


|             |          |          |           |                                       |                                                                                     |                                  |         |                                                                                                   |                                                                                     |                                                                                     |                                                                       |  |  |              |  |           |  |
|-------------|----------|----------|-----------|---------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|---------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--|--|--------------|--|-----------|--|
| mat'l. code |          |          |           | surface 58 ✓<br>ISO 1302              |                                                                                     | tolerance<br>ISO 406<br>ISO 1101 |         | projection<br> |                                                                                     | product family<br>58QF                                                              |                                                                       |  |  | CODE<br>JP   |  |           |  |
| ltr         | ecn no   | dr       | date      | tolerances unless otherwise specified |                                                                                     |                                  |         |                                                                                                   |                                                                                     |  | title<br>1mm SPACING<br>CONNECTOR FOR CIC<br>(Cat. No. :HLW__S-6C7LF) |  |  |              |  |           |  |
| A           | J05-0270 | H.T      | 5/10/'05  | angles                                | ±0.2                                                                                |                                  |         |                                                                                                   |                                                                                     |                                                                                     |                                                                       |  |  |              |  |           |  |
| B           | J05-0735 | H.T      | 10/28/'05 |                                       | linear                                                                              |                                  |         |                                                                                                   |                                                                                     |                                                                                     |                                                                       |  |  |              |  |           |  |
| C           | J06-0449 | H.T      | 11/2/'01  |                                       |                                                                                     |                                  |         |                                                                                                   | scale                                                                               |  |                                                                       |  |  |              |  |           |  |
|             |          |          |           | dr                                    |  |                                  | 11/2/06 |                                                                                                   |  | dwg no                                                                              |                                                                       |  |  | sheet 1 of 1 |  | size      |  |
|             |          |          |           | enr                                   |  |                                  | 11/2/06 |                                                                                                   |                                                                                     | JSA 96408                                                                           |                                                                       |  |  |              |  | A4        |  |
|             |          |          |           | chr                                   |  |                                  | 11/2/06 |                                                                                                   |                                                                                     |                                                                                     |                                                                       |  |  |              |  |           |  |
|             |          |          |           | appd                                  |  |                                  | 11/2/06 |                                                                                                   |                                                                                     | type Product Customer Drawing                                                       |                                                                       |  |  |              |  |           |  |
| sheet index |          | revision |           | C                                     |                                                                                     |                                  |         |                                                                                                   |                                                                                     |                                                                                     |                                                                       |  |  |              |  | Rev.<br>c |  |
|             |          | sheet    |           | 1                                     |                                                                                     |                                  |         |                                                                                                   |                                                                                     |                                                                                     |                                                                       |  |  |              |  |           |  |

SC-HLW 06 JSA96404  
 form: A4

## RECOMMENDED CABLE (CIC)

n : NO. OF CONDUCTORS



| PT. NO. | DESCRIPTION     | MATERIAL                             | THICKNESS ( $\mu\text{m}$ ) |     |
|---------|-----------------|--------------------------------------|-----------------------------|-----|
| 1       | BASE FILM       | POLYESTER OR EQUIVALENT              | 75                          | 25  |
| 2       | CONDUCTOR       | CARBON PASTE OVER SILVER PASTE       | 10 MIN.                     |     |
| 3       | OVERLAY         | POLYIMIDE OR POLYESTER OR EQUIVALENT | —                           |     |
| 4       | SUPPORTING TAPE | POLYESTER OR POLYIMIDE OR EQUIVALENT | 188                         | 250 |

## 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 <input checked="" type="checkbox"/> ISO 1302 <input checked="" type="checkbox"/> tolerance <input checked="" type="checkbox"/> ISO 406 <input checked="" type="checkbox"/> ISO 1101 |        | projection |  | product family 58PF/QF        |  | CODE JP      |  |
| ltr         | ecn no   | dr  | date    | tolerances unless otherwise specified                                                                                                                                                       |        |            |  | title                         |  |              |  |
| AA          | J05-0270 | H.T | 5/11/05 |                                                                                                                                                                                             |        |            |  | RECOMMENDED CABLE (CIC)       |  |              |  |
| AB          | J06-0449 | H.T | 11/2/06 | angles                                                                                                                                                                                      | linear | mm         |  | (Cat. No. HLW__R/S-__)        |  |              |  |
|             |          |     |         | scale $\propto$                                                                                                                                                                             |        |            |  | dwg no                        |  | sheet 1 of 1 |  |
|             |          |     |         | dr <i>H. Shoyu</i> 11/2/06                                                                                                                                                                  |        |            |  | JSA 93626                     |  | size A4      |  |
|             |          |     |         | engr <i>H. Shoyu</i> 11/2/06                                                                                                                                                                |        |            |  | type Product Customer Drawing |  |              |  |
|             |          |     |         | chr <i>K. Shoyu</i> 11/2/06                                                                                                                                                                 |        |            |  |                               |  |              |  |
|             |          |     |         | appd <i>S. Melaw</i> 11/2/06                                                                                                                                                                |        |            |  |                               |  |              |  |
| sheet index | revision | AB  | 1       |                                                                                                                                                                                             |        |            |  |                               |  | Rev. AB      |  |

form: A4

1

2