





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## List of "HFW\_\_R-1/2STZE1LF" customer document

| DOCUMENT NO. | LIST  |
|--------------|---|
| SC-HFWR04    | SPEC.   |
| JSA96791     | CAT.NO.TABLE FOR 1mm SPACING SMT CONNECTOR (HFW__R-1/2STZ__LF)                  |
| JSA96792     | 1mm SPACING SURFACE MOUNT FPC CONNECCTOR (HFW__R-1STZ_LF)                       |
| JSA96793     | 1mm SPACING SURFACE MOUNT FPC CONNECCTOR (HFW__R-2STZ_LF)                       |
| JSA96794     | CAT.NO.TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN.(HFW__R-1/2STZE1LF) |
| JSA96795     | 1mm SPACING SMT CONNECTOR (HFW__R-1STZE1LF)                                     |
| JSA96796     | 1mm SPACING SMT CONNECTOR (HFW__R-2STZE1LF)                                     |
| JSA93573     | RECOMMENDED CABLE (FPC) (HFW__R-1/2____)  |
| JSA93574     | RECOMMENDED CABLE (FFC) (HFW__R-1/2____)  |
| BJM-HFWR101  | HANDLING PROCEDURES   |

|             |  |                |  |                     |  |                               |  |                                       |  |   |  |  |  |         |  |
|-------------|--|----------------|--|---------------------|--|-------------------------------|--|---------------------------------------|--|---|--|--|--|---------|--|
| mat'l. code |  |                |  | surface 58/ISO 1302 |  | tolerance ISO 406<br>ISO 1101 |  | projection                            |  | product family 58NF   |  |  |  | CODE JP |  |
| ltr         |  | ecn no         |  | dr                  |  | date                          |  | tolerances unless otherwise specified |  | <br>mm |  | title<br>1mm SPACING FPC/FFC CONNECTOR DOCUMENT LIST<br>(Cat. No. : HFW__R-1/2STZE1LF) |  |         |  |
| A           |  | J05-0653       |  | H.T                 |  | 10/12/'05                     |  | angles linear                         |  |   |  |  |  |         |  |
| B           |  | J06-0413       |  | H.T                 |  | 10/4/'06                      |  |                                       |  | scale X   |  | dwg no sheet 1 of 1 size<br>JSA 96790 A4   |  |         |  |
|             |  |                |  |                     |  |                               |  |                                       |  |   |  |  |  |         |  |
|             |  |                |  |                     |  |                               |  | dr                                    |  |        |  | type Product Customer Drawing  |  |         |  |
|             |  |                |  |                     |  |                               |  | engr                                  |  |   |  |  |  |         |  |
|             |  |                |  |                     |  |                               |  | chr                                   |  |   |  |  |  |         |  |
|             |  |                |  |                     |  |                               |  | appd                                  |  |   |  |  |  |         |  |
| sheet index |  | revision sheet |  | B 1                 |  |                               |  |                                       |  |   |  | Rev. B   |  |         |  |

form: A4

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## CAT. NO. &amp; DIMENSIONS

| (NOTE3) | NO. OF CONTACTS (n) | CAT. NO.          | DIMENSIONS (NOTE2) |         |         |
|---------|---------------------|-------------------|--------------------|---------|---------|
|         |                     |                   | A ± 0.2            | B ± 0.2 | C ± 0.1 |
|         | 4                   | HFW4R-1/2STZ__LF  | 6.6                | 3       | 5.14    |
|         | 5                   | HFW5R-1/2STZ__LF  | 7.6                | 4       | 6.14    |
|         | 6                   | HFW6R-1/2STZ__LF  | 8.6                | 5       | 7.14    |
|         | 7                   | HFW7R-1/2STZ__LF  | 9.6                | 6       | 8.14    |
|         | 8                   | HFW8R-1/2STZ__LF  | 10.6               | 7       | 9.14    |
|         | 9                   | HFW9R-1/2STZ__LF  | 11.6               | 8       | 10.14   |
|         | 10                  | HFW10R-1/2STZ__LF | 12.6               | 9       | 11.14   |
|         | 11                  | HFW11R-1/2STZ__LF | 13.6               | 10      | 12.14   |
|         | 12                  | HFW12R-1/2STZ__LF | 14.6               | 11      | 13.14   |
|         | 13                  | HFW13R-1/2STZ__LF | 15.6               | 12      | 14.14   |
|         | 14                  | HFW14R-1/2STZ__LF | 16.6               | 13      | 15.14   |
|         | 15                  | HFW15R-1/2STZ__LF | 17.6               | 14      | 16.14   |
|         | 16                  | HFW16R-1/2STZ__LF | 18.6               | 15      | 17.14   |
|         | 17                  | HFW17R-1/2STZ__LF | 19.6               | 16      | 18.14   |
|         | 18                  | HFW18R-1/2STZ__LF | 20.6               | 17      | 19.14   |
|         | 19                  | HFW19R-1/2STZ__LF | 21.6               | 18      | 20.14   |
|         | 20                  | HFW20R-1/2STZ__LF | 22.6               | 19      | 21.14   |
|         | 21                  | HFW21R-1/2STZ__LF | 23.6               | 20      | 22.14   |
|         | 22                  | HFW22R-1/2STZ__LF | 24.6               | 21      | 23.14   |
|         | 23                  | HFW23R-1/2STZ__LF | 25.6               | 22      | 24.14   |
|         | 24                  | HFW24R-1/2STZ__LF | 26.6               | 23      | 25.14   |
|         | 25                  | HFW25R-1/2STZ__LF | 27.6               | 24      | 26.14   |
|         | 26                  | HFW26R-1/2STZ__LF | 28.6               | 25      | 27.14   |
|         | 27                  | HFW27R-1/2STZ__LF | 29.6               | 26      | 28.14   |
| *       | 28                  | HFW28R-1/2STZ__LF | 30.6               | 27      | 29.14   |
| *       | 29                  | HFW29R-1/2STZ__LF | 31.6               | 28      | 30.14   |
|         | 30                  | HFW30R-1/2STZ__LF | 32.6               | 29      | 31.14   |

CAT. NO. HFW (n) R - 1 ST Z \_\_ LF

SERIES \_\_\_\_\_

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

RIGHT ANGLE TYPE \_\_\_\_\_

FOR FPC/FFC, CONTACT DIRECTION \_\_\_\_\_

1. LOWER CONTACT TYPE  
2. UPPER CONTACT TYPE

FOR AUTOMATIC MOUNTING (SMT) \_\_\_\_\_

THIN TIN \_\_\_\_\_

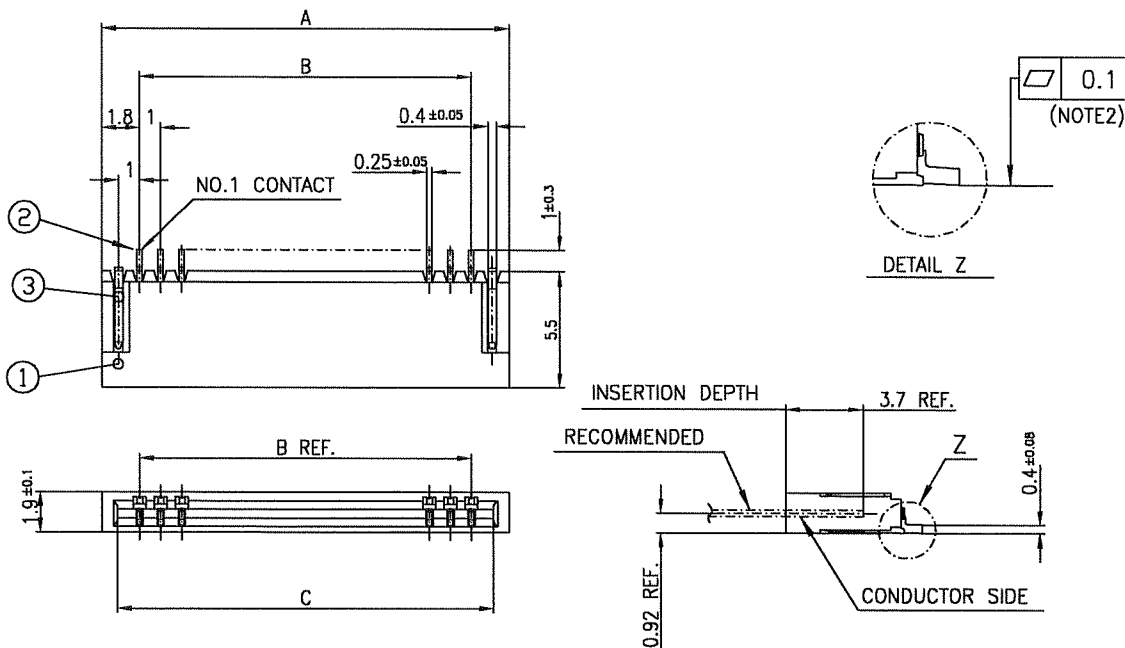
PACKAGE STYLE \_\_\_\_\_

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

## NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
2. SEE PART DRAWINGS FOR DIMENSIONS A~C.
3. PLEASE CONSULT US IN CASE OF USING PARTS WITH \* MARK.

|             |          |     |           |                                       |  |                            |  |            |  |  |  |         |  |
|-------------|----------|-----|-----------|---------------------------------------|--|----------------------------|--|------------|--|--|--|---------|--|
| mat'l. code |          |     |           | surface 58/ISO 1302                   |  | tolerance ISO 406/ISO 1101 |  | projection |  | product family 58NF  |  | CODE JP |  |
| ltr         | ecn no   | dr  | date      | tolerances unless otherwise specified |  |                            |  | mm         |  | title  |  |         |  |
| A           | J05-0653 | H.T | 10/12/'05 | angles linear                         |  |                            |  | mm         |  | CAT NO.TABLE FOR 1mm SPACING SMT CONNECTOR (Cat.No. HFW__R-1/2STZ__LF) |  |         |  |
| B           | J06-0413 | H.T | 10/4/'06  |                                       |  |                            |  | scale X    |  | dwg no sheet 1 of 1 size   |  |         |  |
|             |          |     |           | dr 10/4/06                            |  |                            |  | FCJ        |  | JSA 96791 A4   |  |         |  |
|             |          |     |           | enrg 10/4/06                          |  |                            |  |            |  | type Product Customer Drawing  |  |         |  |
|             |          |     |           | chr 10/12/06                          |  |                            |  |            |  |  |  |         |  |
|             |          |     |           | appd 10/12/06                         |  |                            |  |            |  |  |  |         |  |
| sheet index | revision | B   |           |                                       |  |                            |  |            |  | Rev. B   |  |         |  |
|             | sheet    | 1   |           |                                       |  |                            |  |            |  |  |  |         |  |

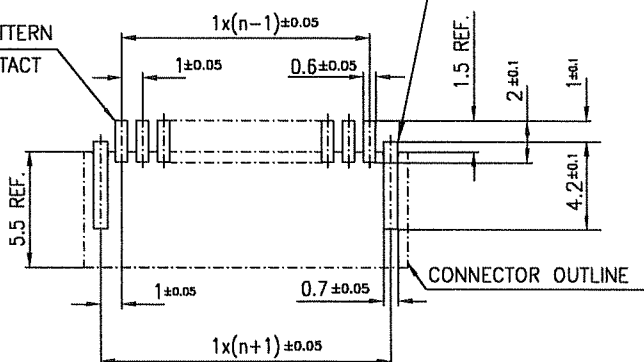


| PT. NO. | PARTS NAME     | MATERIAL                              | Q'TY | NOTE                   |
|---------|----------------|---------------------------------------|------|------------------------|
| 1       | HOUSING        | PA6T RESIN GLASS REINFORCED (UL94V-0) | 1    | COLOR:BLACK            |
| 2       | CONTACT        | PHOSPHOR BRONZE                       | n    | CONTACT POINT:THIN TIN |
| 3       | MOUNTING PLATE |                                       | 2    | TIN                    |

n : NO. OF CONTACTS

#### RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)

#### BASIC PATTERN NO.1 CONTACT POSITION

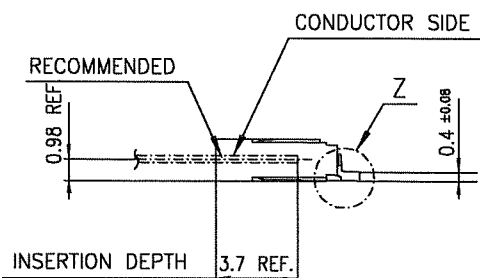
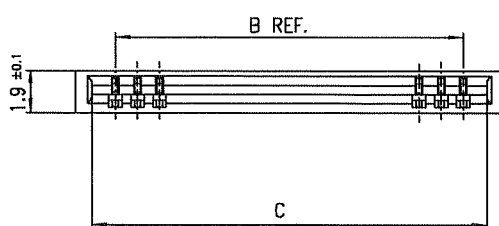
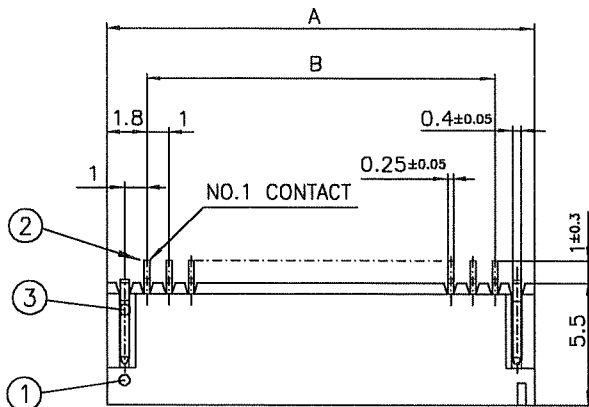


#### NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC AND COPES WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL FOR HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR.
4. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008
5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN

|             |          |                |           |                                       |  |                                       |  |            |  |  |  |  |  |         |        |
|-------------|----------|----------------|-----------|---------------------------------------|--|---------------------------------------|--|------------|--|--|--|--|--|---------|--------|
| mat'l. code |          |                |           | surface <sup>58</sup> ISO 1302        |  | tolerance <sup>ISO 406</sup> ISO 1101 |  | projection |  | product family 58NF  |  |  |  | CODE JP |        |
| ltr         | ecn no   | dr             | date      | tolerances unless otherwise specified |  |                                       |  |            |  | title<br>1mm SPACING SURFACE MOUNT<br>FPC CONNECTOR<br>(Cat.No. HFW__R-1STZ__LF) |  |  |  |         |        |
| A           | J05-0653 | H.T            | 10/12/'05 | angles                                |  | linear ±0.2                           |  | mm<br>     |  |  |  |  |  |         |        |
| B           | J06-0413 | H.T            | 10/4/'06  |                                       |  |                                       |  | scale X    |  | dwg no JSA 96792 sheet 1 of 1 size A4  |  |  |  |         |        |
|             |          |                |           | dr                                    |  | 10/4/06                               |  |            |  |  |  |  |  |         |        |
|             |          |                |           | enrg                                  |  | 10/4/06                               |  |            |  |  |  |  |  |         |        |
|             |          |                |           | chr                                   |  | 10/12/06                              |  |            |  |  |  |  |  |         |        |
|             |          |                |           | appd                                  |  | 10/12/06                              |  |            |  |  |  |  |  |         |        |
| sheet index |          | revision sheet |           | B 1                                   |  |                                       |  |            |  |  |  |  |  |         | Rev. B |

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form: A4



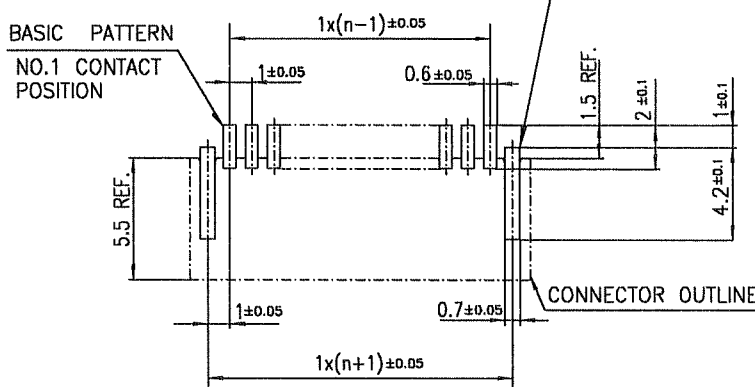
| PT. NO. | PARTS NAME     | MATERIAL                              | Q'TY | NOTE                   |
|---------|----------------|---------------------------------------|------|------------------------|
| 1       | HOUSING        | PA6T RESIN GLASS REINFORCED (UL94V-0) | 1    | COLOR:BLACK            |
| 2       | CONTACT        | PHOSPHOR BRONZE                       | n    | CONTACT POINT:THIN TIN |
| 3       | MOUNTING PLATE |                                       | 2    | TIN                    |

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT  
(COMPONENT SIDE)

BASIC PATTERN

NO.1 CONTACT POSITION



PATTERN FOR MOUNTING PLATE FIXING

NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC AND COPS WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL FOR HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS PRODUCT IS UPPER CONTACT TYPE CONNECTOR.
4. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008
5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN

|             |          |     |          |                                       |           |                               |  |      |
|-------------|----------|-----|----------|---------------------------------------|-----------|-------------------------------|--|------|
| mat'l. code |          |     |          | surface 58                            | tolerance | projection                    | product family   | CODE |
|             |          |     |          | ISO 1302                              | ISO 406   |                               | 58NF   | JP   |
|             |          |     |          | tolerances unless otherwise specified |           |                               | title  |      |
| ltr         | ecn no   | dr  | date     | angles                                | linear    | mm                            |  |      |
| A           | J05-0653 | H.T | 10/12/05 |                                       | ±0.2      |                               | 1mm SPACING SURFACE MOUNT FPC CONNECTOR (Cat.No. HFWR__R-2STZ__LF) |      |
| B           | J06-0413 | H.T | 10/4/06  |                                       |           |                               |  |      |
|             |          |     |          | dr                                    | 10/4/06   | FCI                           | dwg no   |      |
|             |          |     |          | enr                                   | 10/12/06  |                               |  |      |
|             |          |     |          | chr                                   | 10/12/06  |                               | sheet 1 of 1 size  |      |
|             |          |     |          | appd                                  | 10/12/06  |                               |  |      |
|             |          |     |          |                                       |           | JSA 96793                     |  | A4   |
|             |          |     |          |                                       |           | type Product Customer Drawing |  | Rev. |
| sheet       | revision | B   |          |                                       |           |                               |  | B    |
| index       | sheet    | 1   |          |                                       |           |                               |  |      |

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form: A4

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2

## CAT. NO. &amp; DIMENSIONS

| (NOTE4) | NO. OF CONTACTS (n) | CAT. NO. (NOTE2)  | DIMENSIONS (NOTE3) |         |         |
|---------|---------------------|-------------------|--------------------|---------|---------|
|         |                     |                   | E ± 5              | F ± 0.3 | G ± 0.1 |
|         | 4                   | HFW4R-1/2STZE1LF  | 28.4               | 24      | —       |
|         | 5                   | HFW5R-1/2STZE1LF  | 28.4               | 24      | —       |
|         | 6                   | HFW6R-1/2STZE1LF  | 28.4               | 24      | —       |
|         | 7                   | HFW7R-1/2STZE1LF  | 28.4               | 24      | —       |
|         | 8                   | HFW8R-1/2STZE1LF  | 28.4               | 24      | —       |
|         | 9                   | HFW9R-1/2STZE1LF  | 28.4               | 24      | —       |
|         | 10                  | HFW10R-1/2STZE1LF | 28.4               | 24      | —       |
|         | 11                  | HFW11R-1/2STZE1LF | 28.4               | 24      | —       |
|         | 12                  | HFW12R-1/2STZE1LF | 28.4               | 24      | —       |
|         | 13                  | HFW13R-1/2STZE1LF | 28.4               | 24      | —       |
|         | 14                  | HFW14R-1/2STZE1LF | 28.4               | 24      | —       |
|         | 15                  | HFW15R-1/2STZE1LF | 36.4               | 32      | 28.4    |
|         | 16                  | HFW16R-1/2STZE1LF | 36.4               | 32      | 28.4    |
|         | 17                  | HFW17R-1/2STZE1LF | 36.4               | 32      | 28.4    |
|         | 18                  | HFW18R-1/2STZE1LF | 36.4               | 32      | 28.4    |
|         | 19                  | HFW19R-1/2STZE1LF | 48.4               | 44      | 40.4    |
|         | 20                  | HFW20R-1/2STZE1LF | 48.4               | 44      | 40.4    |
|         | 21                  | HFW21R-1/2STZE1LF | 48.4               | 44      | 40.4    |
|         | 22                  | HFW22R-1/2STZE1LF | 48.4               | 44      | 40.4    |
|         | 23                  | HFW23R-1/2STZE1LF | 48.4               | 44      | 40.4    |
|         | 24                  | HFW24R-1/2STZE1LF | 48.4               | 44      | 40.4    |
|         | 25                  | HFW25R-1/2STZE1LF | 48.4               | 44      | 40.4    |
|         | 26                  | HFW26R-1/2STZE1LF | 48.4               | 44      | 40.4    |
|         | 27                  | HFW27R-1/2STZE1LF | 48.4               | 44      | 40.4    |
| *       | 28                  | HFW28R-1/2STZE1LF | 48.4               | 44      | 40.4    |
| *       | 29                  | HFW29R-1/2STZE1LF | 48.4               | 44      | 40.4    |
|         | 30                  | HFW30R-1/2STZE1LF | 60.4               | 56      | 52.4    |

CAT. NO.

HFW (n) R - 1 ST Z E1 LF

SERIES

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC/FFC, CONTACT DIRECTION

1. LOWER CONTACT TYPE
2. UPPER CONTACT TYPE

FOR AUTOMATIC MOUNTING (SMT)

THIN TIN

TAPE PACKAGING

LEAD FREE

## NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC AND COPE WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS E~G.
4. PLEASE CONSULT US IN CASE OF USING PARTS WITH \* MARK.

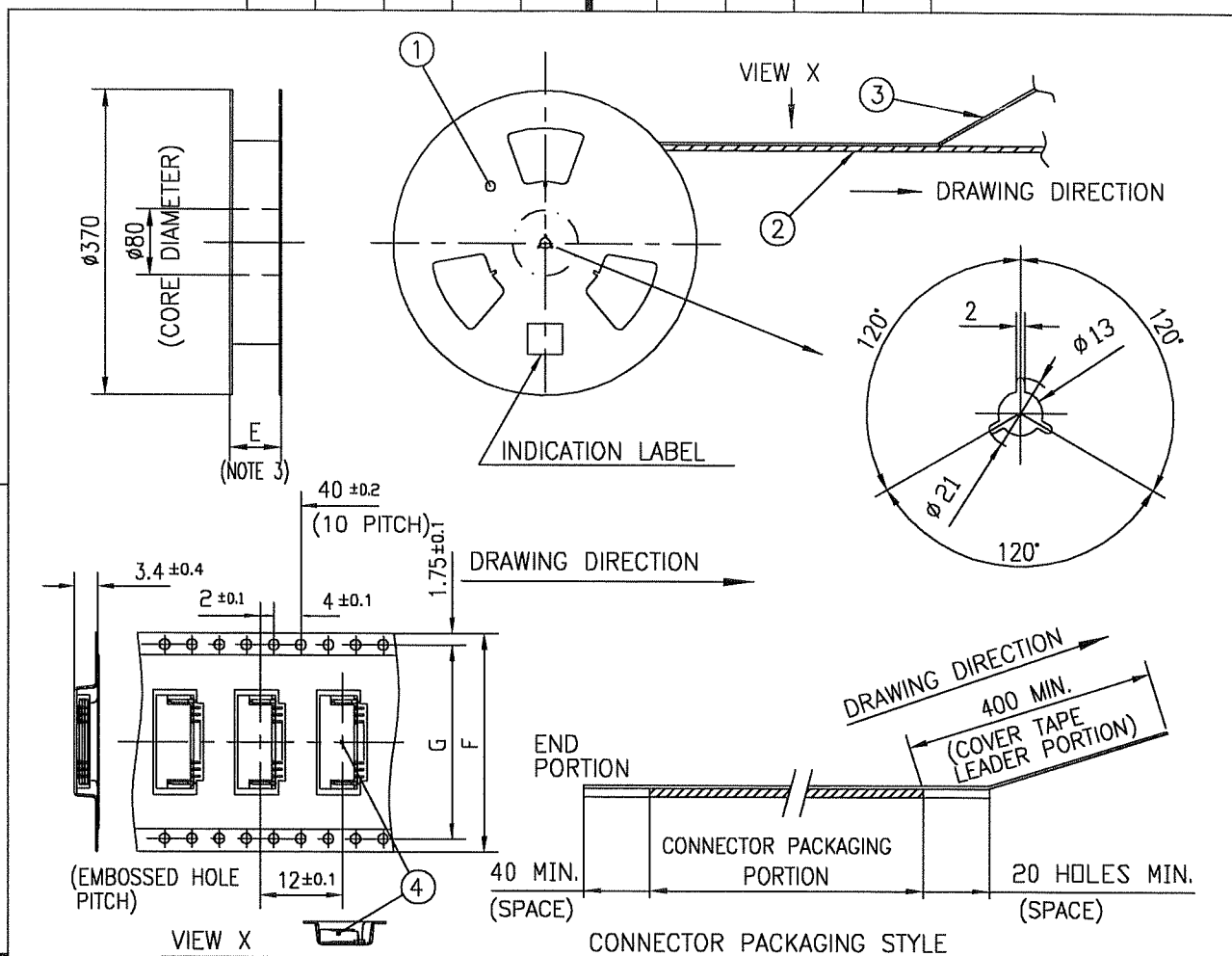
|             |          |     |           |  |          |            |  |   |  |         |        |
|-------------|----------|-----|-----------|--|----------|------------|--|---|--|---------|--------|
| mat'l. code |          |     |           | surface 58 / tolerance ISO 1302 ✓ ISO 406 ISO 1101 |          | projection |  | product family 58NF   |  | CODE JP |        |
| ltr         | ecn no   | dr  | date      | tolerances unless otherwise specified              |          | mm         |  | title   |  |         |        |
| A           | J05-0653 | H.T | 10/12/'05 | angles   | linear   | mm         |  | CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN (Cat.No. HFW__R-1/2STZE1LF) |  |         |        |
| B           | J06-0413 | H.T | 10/4/'06  |  |          | scale X    |  |   |  |         |        |
|             |          |     |           | dr   | 10/4/06  | FCJ        |  | dwg no sheet 1 of 1 size  |  |         |        |
|             |          |     |           | enr  | 10/4/06  |            |  | JSA 96794 A4  |  |         |        |
|             |          |     |           | chr  | 10/12/06 |            |  | type Product Customer Drawing   |  |         |        |
|             |          |     |           | appd   | 10/12/06 |            |  |   |  |         |        |
| sheet index | revision | B   |           |  |          |            |  |   |  |         | Rev. B |
|             | sheet    | 1   |           |  |          |            |  |   |  |         |        |

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form: A4

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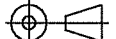
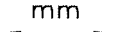





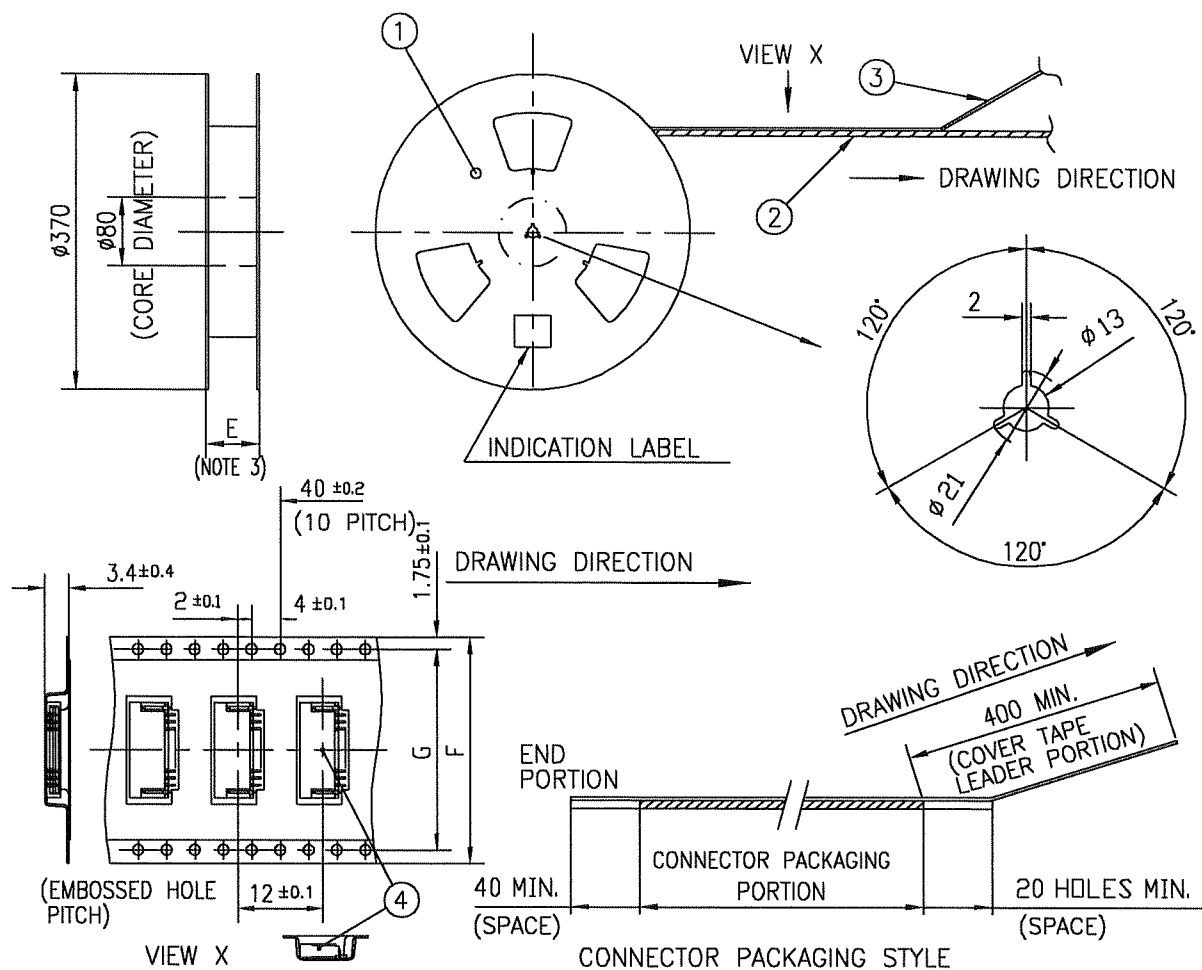
| PT. NO. | PARTS NAME             | CAT. NO.        | MATERIAL          | Q'TY | NOTE               |
|---------|------------------------|-----------------|-------------------|------|--------------------|
| 1       | REEL                   | _____           | CARDBOARD         | 1    | COLOR:WHITE        |
| 2       | PLASTIC (EMBOSSD) TAPE | _____           | PET               | —    | COLOR:TRANSPARENCY |
| 3       | COVER                  | _____           | POLYESTER         | —    | COLOR:TRANSPARENCY |
| 4       | CONNECTOR              | HFW__R-1STZ__LF | SEE ATTACHED DWG. | 2000 | LOWER CONTACT TYPE |

#### NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR DESIGNED TO TERMINATE FPC AND COPEs WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSSD) TAPE AND REEL.
- E DIMENSION IS PORTION OF THE CORE.

|             |          |          |          |  |          |                                  |   |   |  |   |  |  |  |            |  |       |  |  |  |  |
|-------------|----------|----------|----------|--|----------|----------------------------------|---|---|--|---|--|--|--|------------|--|-------|--|--|--|--|
| mat'l. code |          |          |          | surface 58<br>ISO 1302                 |          | tolerance<br>ISO 406<br>ISO 1101 |   | projection<br> |  | product family 58NF   |  |  |  | CODE<br>JP |  |       |  |  |  |  |
| ltr         | ecn no   | dr       | date     | tolerances, unless otherwise specified |          |                                  |   |                |  | title<br>1mm SPACING SMT CONNECTOR<br>(Cat.No. HFW__R-1STZE1LF) |  |  |  |            |  |       |  |  |  |  |
| A           | J05-0653 | H.T      | 10/12/05 | angles                                 | linear   |                                  | ±5  |   |  |   |  |  |  |            |  |       |  |  |  |  |
| B           | J06-0413 | H.T      | 10/4/06  | ±5'                                    |          |                                  |   | scale X   |  | dwg no sheet 1 of 1 size<br>JSA 96795 A4                        |  |  |  |            |  |       |  |  |  |  |
|             |          |          |          |  |          |                                  |   |   |  |   |  |  |  |            |  |       |  |  |  |  |
|             |          |          |          | dr                                     | 10/4/06  |                                  |  |   |  |   |  |  |  |            |  |       |  |  |  |  |
|             |          |          |          | enr                                    | 10/4/06  |                                  |   |   |  |   |  |  |  |            |  |       |  |  |  |  |
|             |          |          |          | chr                                    | 10/12/06 |                                  |   |   |  |   |  |  |  |            |  |       |  |  |  |  |
|             |          |          |          | appd                                   | 10/12/06 |                                  |   |   |  |   |  |  |  |            |  |       |  |  |  |  |
| sheet index |          | revision | B        |  |          |                                  |   |   |  |   |  |  |  |            |  | Rev B |  |  |  |  |
|             |          | sheet    | 1        |  |          |                                  |   |   |  |   |  |  |  |            |  |       |  |  |  |  |

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| PT. NO. | PARTS NAME              | CAT. NO.         | MATERIAL          | Q'TY  | NOTE               |
|---------|-------------------------|------------------|-------------------|-------|--------------------|
| 1       | REEL                    | _____            | CARDBOARD         | 1     | COLOR:WHITE        |
| 2       | PLASTIC (EMBOSSED) TAPE | _____            | PET               | _____ | COLOR:TRANSPARENCY |
| 3       | COVER                   | _____            | POLYESTER         | _____ | COLOR:TRANSPARENCY |
| 4       | CONNECTOR               | HFW__R-2STZ__-LF | SEE ATTACHED DWG. | 2000  | UPPER CONTACT TYPE |

## NOTES

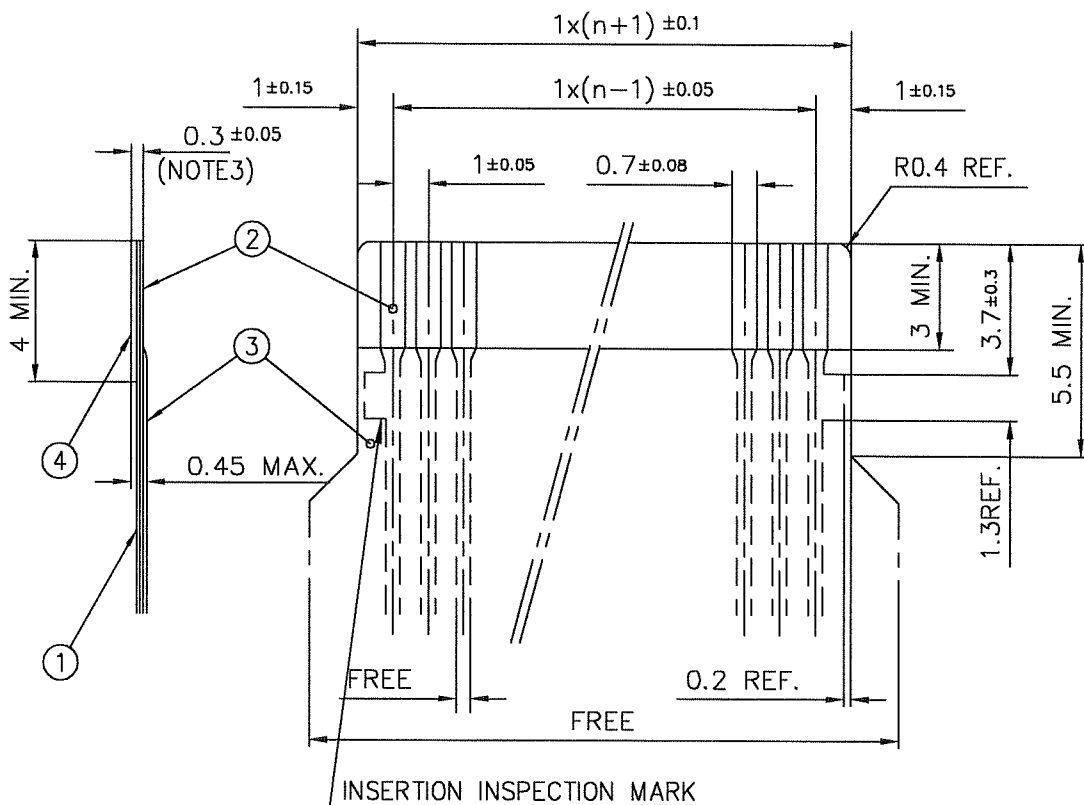
1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR DESIGNED TO TERMINATE FPC AND COPES WITH AUTOMATIC MOUNTING (SMT).
2. SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSSED) TAPE AND REEL.
3. E DIMENSION IS PORTION OF THE CORE.

|             |            |         |           |                                       |                            |            |   |         |
|-------------|------------|---------|-----------|---------------------------------------|----------------------------|------------|---|---------|
| mat'l. code |            |         |           | surface 58/ISO 1302                   | tolerance ISO 406/ISO 1101 | projection | product family 58NF   | CODE JP |
| ltr         | ecn no     | dr      | date      | tolerances unless otherwise specified |                            |            | title<br>1mm SPACING SMT CONNECTOR<br>(Cat.No. HFW__R-2STZE1LF) |         |
| A           | J05-0653   | H.T     | 10/12/'05 | angles                                | linear                     | mm         |   |         |
| B           | J06-0413   | H.T     | 10/4/'06  | ±5'                                   |                            | scale X    | dwg no sheet 1 of 1 size<br>JSA 96796 A4                        |         |
|             |            |         |           | dr                                    | 10/14/06                   |            |   |         |
|             |            |         |           | enr                                   | 10/14/06                   |            | type Product Customer Drawing                                   |         |
|             |            |         |           | chr                                   | 10/12/06                   |            |   |         |
|             |            |         |           | appd                                  | 10/12/06                   |            | Rev. B  |         |
| sheet index | revision B | sheet 1 |           |                                       |                            |            |   |         |

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# 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 58NF           |  | CODE JP |  |
| ltr         | ecn no         | dr  | date    | tolerances unless otherwise specified                  |  | mm         |  | title                         |  |         |  |
| A           | J06-0413       | H.T | 10/4/06 |  |  | mm         |  | RECOMMENDED CABLE             |  |         |  |
|             |                |     |         | angles linear  |  | scale X    |  | (Cat. No. HFW__R-1/2__)       |  |         |  |
|             |                |     |         | dr   |  | FCJ        |  | dwg no sheet 1 of 1 size      |  |         |  |
|             |                |     |         | enr  |  |            |  | JSA 93573 A4                  |  |         |  |
|             |                |     |         | chr  |  |            |  | type Product Customer Drawing |  |         |  |
|             |                |     |         | appd   |  |            |  |                               |  |         |  |
| sheet index | revision sheet | A   | 1       |  |  |            |  | Rev. A                        |  |         |  |

form: A4

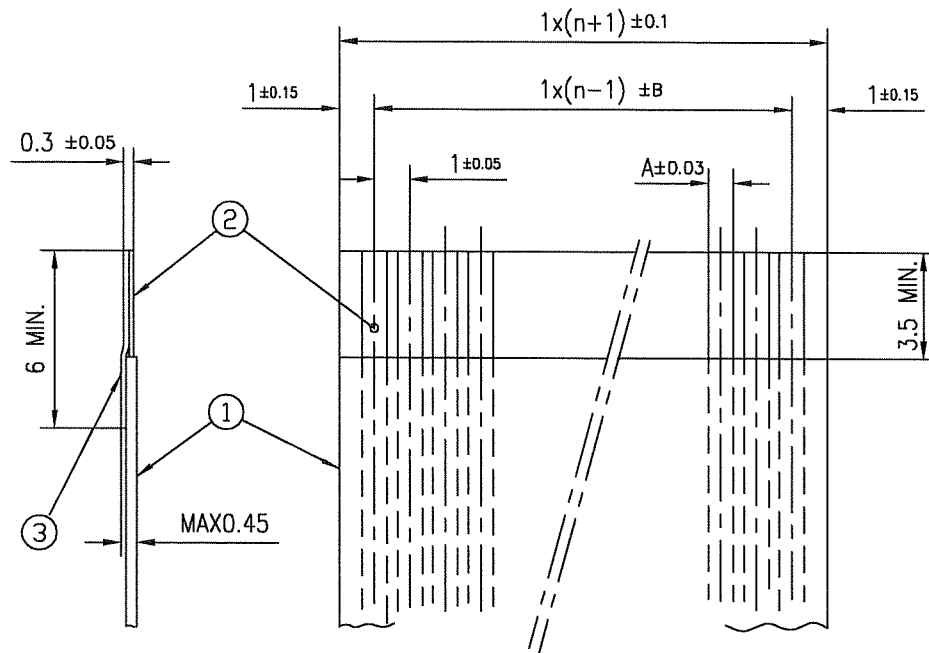
1

2



# RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTORS



| (NOTE 3) | DIMENSION A | TOLERANCE B |
|----------|-------------|-------------|
| 1        | 0.7         | 0.1         |
| 2        | 0.6         | 0.07        |

| 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.
3. BOTH COMBINATION IS ALLOWED.

|             |          |                |          |                                       |  |                            |  |            |  |                         |  |              |  |
|-------------|----------|----------------|----------|---------------------------------------|--|----------------------------|--|------------|--|-------------------------|--|--------------|--|
| mat'l. code |          |                |          | surface 58/ISO 1302                   |  | tolerance ISO 406 ISO 1101 |  | projection |  | product family 58NF     |  | CODE JP      |  |
| ltr         | ecn no   | dr             | date     | tolerances unless otherwise specified |  |                            |  | mm         |  | title                   |  |              |  |
| 1           | ---      | T.M            | 4/30/'02 | angles linear                         |  |                            |  | mm         |  | RECOMMENDED CABLE       |  |              |  |
| A           | J06-0413 | H.T            | 10/4/'06 |                                       |  |                            |  | scale X    |  | (Cat. No. HFW__R-1/2__) |  |              |  |
|             |          |                |          | dr                                    |  | 10/15/06                   |  |            |  | dwg no                  |  | sheet 1 of 1 |  |
|             |          |                |          | enr                                   |  | 10/14/06                   |  |            |  | JSA 93574               |  | size A4      |  |
|             |          |                |          | chr                                   |  | 10/12/06                   |  |            |  |                         |  |              |  |
|             |          |                |          | appd                                  |  | 10/12/06                   |  |            |  |                         |  |              |  |
| sheet index |          | revision sheet |          | A                                     |  | 1                          |  |            |  |                         |  | Rev. A       |  |

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