



FCIconnect.com

## Configuration of Documents

|             |                |     |            |                                       |  |                              |  |                 |  |                                                               |  |  |  |         |  |
|-------------|----------------|-----|------------|---------------------------------------|--|------------------------------|--|-----------------|--|---------------------------------------------------------------|--|--|--|---------|--|
| mat'l. code |                |     |            | surface 58 / ISO 1302 ✓               |  | tolerance ISO 406 / ISO 1101 |  | projection      |  | product family 580F                                           |  |  |  | CODE JP |  |
| ltr         | ecn no         | dr  | date       | tolerances unless otherwise specified |  | mm                           |  | scale $\propto$ |  | title                                                         |  |  |  |         |  |
| A           | J05-0334       | H.T | 6/3/'05    | angles                                |  | linear                       |  |                 |  | HFW_S Documents Configuration (1mm Contact Spacing connector) |  |  |  |         |  |
| B           | J06-0435       | H.T | 10/26/'06  |                                       |  |                              |  |                 |  | dwg no sheet 1 of 1 size                                      |  |  |  |         |  |
| C           | J07-0481       | H.T | 2007-9-26  |                                       |  |                              |  |                 |  | JSA96472 A4                                                   |  |  |  |         |  |
| D           | J07-0502       | H.T | 2007-10-10 | dr                                    |  | 2007-10-10                   |  | FCI             |  | type Product Customer Drawing                                 |  |  |  |         |  |
|             |                |     |            | enr                                   |  | 2007-10-10                   |  |                 |  |                                                               |  |  |  |         |  |
|             |                |     |            | chr                                   |  | 2007-10-10                   |  |                 |  |                                                               |  |  |  |         |  |
|             |                |     |            | appd                                  |  | 2007-10-10                   |  |                 |  |                                                               |  |  |  |         |  |
| sheet index | revision sheet | D   | 1          |                                       |  |                              |  |                 |  | Rev. D                                                        |  |  |  |         |  |

form: A4

1

2

## CAT. NO. &amp; DIMENSIONS

| (NOTE 3) | NO. OF CONTACTS (n) | CAT. NO.        | DIMENSIONS (NOTE2) |         |         |         |         |
|----------|---------------------|-----------------|--------------------|---------|---------|---------|---------|
|          |                     |                 | A ± 0.2            | B ± 0.2 | C ± 0.2 | D ± 0.2 | E ± 0.2 |
|          | 4                   | HFW4S-2STA__LF  | 7                  | 5.14    | 3       | —       | —       |
|          | 5                   | HFW5S-2STA__LF  | 8                  | 6.14    | 4       | —       | —       |
|          | 6                   | HFW6S-2STA__LF  | 9                  | 7.14    | 5       | —       | —       |
|          | 7                   | HFW7S-2STA__LF  | 10                 | 8.14    | 6       | —       | —       |
|          | 8                   | HFW8S-2STA__LF  | 11                 | 9.14    | 7       | —       | —       |
|          | 9                   | HFW9S-2STA__LF  | 12                 | 10.14   | 8       | 0.35    | 7.3     |
|          | 10                  | HFW10S-2STA__LF | 13                 | 11.14   | 9       | 0.35    | 8.3     |
|          | 11                  | HFW11S-2STA__LF | 14                 | 12.14   | 10      | 1.35    | 7.3     |
|          | 12                  | HFW12S-2STA__LF | 15                 | 13.14   | 11      | 1.35    | 8.3     |
|          | 13                  | HFW13S-2STA__LF | 16                 | 14.14   | 12      | 2.35    | 7.3     |
|          | 14                  | HFW14S-2STA__LF | 17                 | 15.14   | 13      | 2.35    | 8.3     |
|          | 15                  | HFW15S-2STA__LF | 18                 | 16.14   | 14      | 3.35    | 7.3     |
|          | 16                  | HFW16S-2STA__LF | 19                 | 17.14   | 15      | 3.35    | 8.3     |
|          | 17                  | HFW17S-2STA__LF | 20                 | 18.14   | 16      | 4.35    | 7.3     |
|          | 18                  | HFW18S-2STA__LF | 21                 | 19.14   | 17      | 4.35    | 8.3     |
|          | 19                  | HFW19S-2STA__LF | 22                 | 20.14   | 18      | 5.35    | 7.3     |
|          | 20                  | HFW20S-2STA__LF | 23                 | 21.14   | 19      | 5.35    | 8.3     |
|          | 21                  | HFW21S-2STA__LF | 24                 | 22.14   | 20      | 6.35    | 7.3     |
|          | 22                  | HFW22S-2STA__LF | 25                 | 23.14   | 21      | 6.35    | 8.3     |
|          | 23                  | HFW23S-2STA__LF | 26                 | 24.14   | 22      | 7.35    | 7.3     |
|          | 24                  | HFW24S-2STA__LF | 27                 | 25.14   | 23      | 7.35    | 8.3     |
|          | 25                  | HFW25S-2STA__LF | 28                 | 26.14   | 24      | 8.35    | 7.3     |
|          | 26                  | HFW26S-2STA__LF | 29                 | 27.14   | 25      | 8.35    | 8.3     |
|          | 27                  | HFW27S-2STA__LF | 30                 | 28.14   | 26      | 9.35    | 7.3     |
|          | 28                  | HFW28S-2STA__LF | 31                 | 29.14   | 27      | 9.35    | 8.3     |
|          | 29                  | HFW29S-2STA__LF | 32                 | 30.14   | 28      | 10.35   | 7.3     |
|          | 30                  | HFW30S-2STA__LF | 33                 | 31.14   | 29      | 10.35   | 8.3     |
| *        | 31                  | HFW31S-2STA__LF | 34                 | 32.14   | 30      | 11.35   | 7.3     |
|          | 32                  | HFW32S-2STA__LF | 35                 | 33.14   | 31      | 11.35   | 8.3     |
| *        | 33                  | HFW33S-2STA__LF | 36                 | 34.14   | 32      | 12.35   | 7.3     |

CAT. NO.

HFW (n) S-2 ST A \_\_ LF

SERIES

NO. OF CONTACTS

STRAIGHT TYPE

FOR FPC / FFC

FOR AUTOMATIC MOUNTING (SMT)

VARIATION  
GOLD PLATING

PACKAGE STYLE

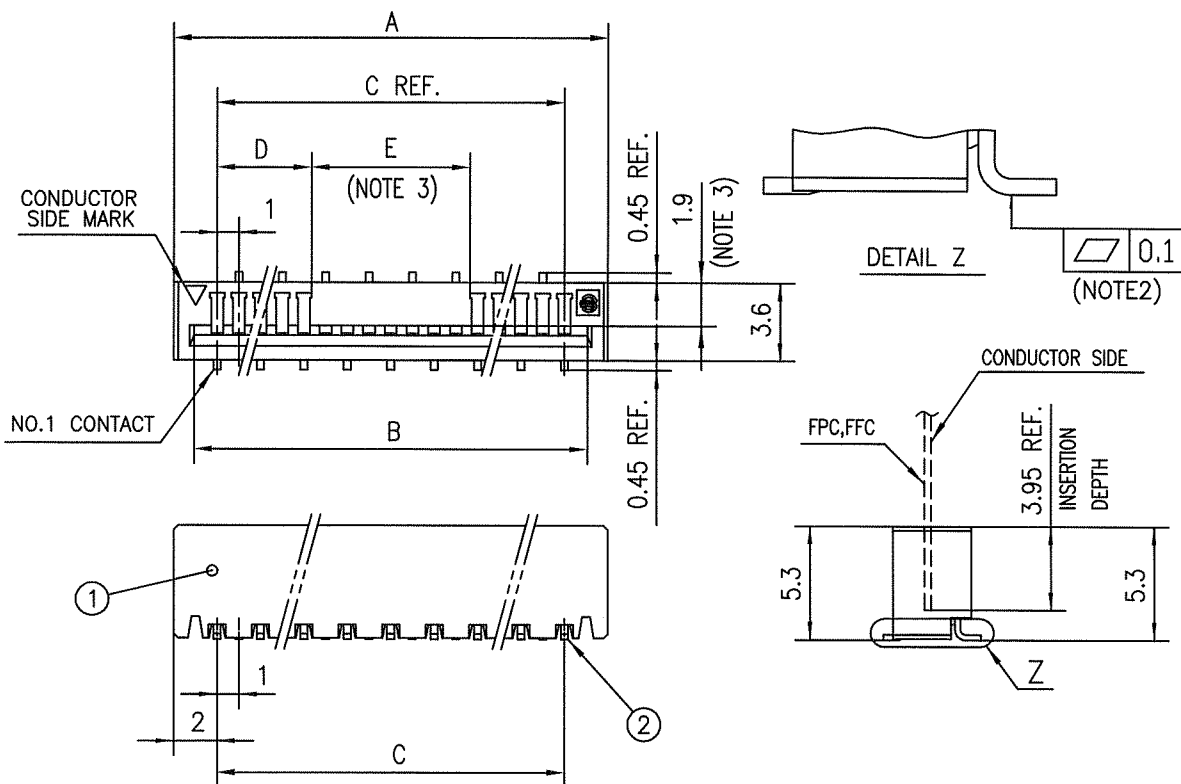
LEAD FREE

## NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPES WITH AUTOMATIC MOUNTING (SMT).
2. SEE PART DRAWINGS FOR DIMENSIONS A~E.
3. 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 580F                                                                 |  | CODE JP           |  |
| ltr         | ecn no   | dr         | date       | tolerances unless otherwise specified                  |        | mm         |  | title<br>CAT NO. TABLE FOR<br>1mm SPACING SMT CONNECTOR<br>(CAT.No.HFW__S-2STA__LF) |  |                   |  |
| A           | J07-0502 | H.T        | 2007-10-10 | angles                                                 | linear |            |  |                                                                                     |  |                   |  |
|             |          |            |            |                                                        |        | scale      |  | dwg no                                                                              |  | sheet 1 of 1 size |  |
|             |          |            |            |                                                        |        | FCI        |  | JSA 97369                                                                           |  | A4                |  |
|             |          |            |            |                                                        |        |            |  | type Product Customer Drawing                                                       |  |                   |  |
| sheet index |          | revision A |            |                                                        |        |            |  |                                                                                     |  | Rev A             |  |
|             |          | sheet 1    |            |                                                        |        |            |  |                                                                                     |  |                   |  |

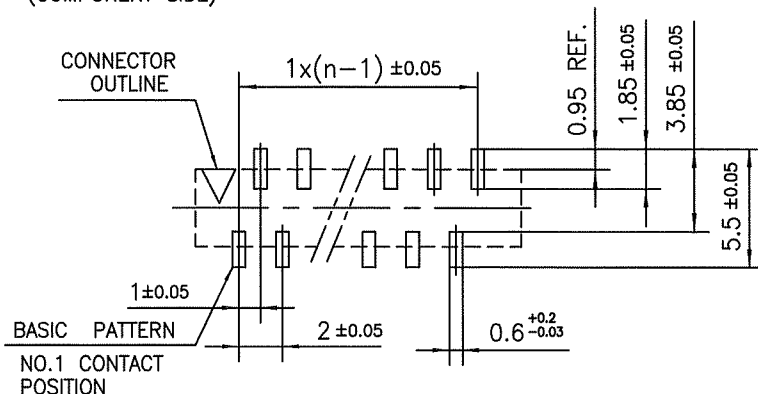
SC-HFWS06 JSA97370,97371,97372,97373  
form: A4



| PT. NO. | PARTS NAME | MATERIAL                              | Q'TY | NOTE           |
|---------|------------|---------------------------------------|------|----------------|
| 1       | HOUSING    | PA6T RESIN GLASS REINFORCED (UL94V-0) | 1    | COLOR : BLACK  |
| 2       | CONTACT    | PHOSPHOR BRONZE                       | n    | PLATING : GOLD |

n : NO. OF CONTACTS

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



#### NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPE WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS DIMENSION IS SPACE FOR THE NOZZLE OF MOUNTER.
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 ISO 1302 ✓ / ISO 406 / ISO 1101 |        | projection |  | product family 580F                                                  |  | CODE JP           |  |
| ltr         | ecn no   | dr             | date       | tolerances unless otherwise specified                  |        | mm         |  | title                                                                |  |                   |  |
| A           | J07-0502 | H.T            | 2007-10-10 | angles                                                 | linear | mm         |  | 1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (CAT.No.HFW__S-2STA__LF) |  |                   |  |
|             |          |                |            |                                                        |        | scale      |  | dwg no                                                               |  | sheet 1 of 1 size |  |
|             |          |                |            |                                                        |        | FCI        |  | JSA 97370                                                            |  | A4                |  |
|             |          |                |            |                                                        |        |            |  | type Product Customer Drawing                                        |  |                   |  |
| sheet index |          | revision sheet |            | A                                                      |        |            |  |                                                                      |  | Rev A             |  |

SC-HFWS06 JSA97369  
form: A4

## CAT. NO. &amp; DIMENSIONS

| (NOTE.4) | NO. OF CONTACTS (n) | CAT. NO. (NOTE.2) | DIMENSIONS (NOTE.3) |         |         |
|----------|---------------------|-------------------|---------------------|---------|---------|
|          |                     |                   | F ± 0.5             | G ± 0.3 | H ± 0.1 |
|          | 4                   | HFW4S-2STAE1LF    | 28.4                | 24      | —       |
|          | 5                   | HFW5S-2STAE1LF    | 28.4                | 24      | —       |
|          | 6                   | HFW6S-2STAE1LF    | 28.4                | 24      | —       |
|          | 7                   | HFW7S-2STAE1LF    | 28.4                | 24      | —       |
|          | 8                   | HFW8S-2STAE1LF    | 28.4                | 24      | —       |
|          | 9                   | HFW9S-2STAE1LF    | 28.4                | 24      | —       |
|          | 10                  | HFW10S-2STAE1LF   | 28.4                | 24      | —       |
|          | 11                  | HFW11S-2STAE1LF   | 28.4                | 24      | —       |
|          | 12                  | HFW12S-2STAE1LF   | 28.4                | 24      | —       |
|          | 13                  | HFW13S-2STAE1LF   | 28.4                | 24      | —       |
|          | 14                  | HFW14S-2STAE1LF   | 36.4                | 32      | 28.4    |
|          | 15                  | HFW15S-2STAE1LF   | 36.4                | 32      | 28.4    |
|          | 16                  | HFW16S-2STAE1LF   | 36.4                | 32      | 28.4    |
|          | 17                  | HFW17S-2STAE1LF   | 36.4                | 32      | 28.4    |
|          | 18                  | HFW18S-2STAE1LF   | 48.4                | 44      | 40.4    |
|          | 19                  | HFW19S-2STAE1LF   | 48.4                | 44      | 40.4    |
|          | 20                  | HFW20S-2STAE1LF   | 48.4                | 44      | 40.4    |
|          | 21                  | HFW21S-2STAE1LF   | 48.4                | 44      | 40.4    |
|          | 22                  | HFW22S-2STAE1LF   | 48.4                | 44      | 40.4    |
|          | 23                  | HFW23S-2STAE1LF   | 48.4                | 44      | 40.4    |
|          | 24                  | HFW24S-2STAE1LF   | 48.4                | 44      | 40.4    |
|          | 25                  | HFW25S-2STAE1LF   | 48.4                | 44      | 40.4    |
|          | 26                  | HFW26S-2STAE1LF   | 48.4                | 44      | 40.4    |
|          | 27                  | HFW27S-2STAE1LF   | 48.4                | 44      | 40.4    |
|          | 28                  | HFW28S-2STAE1LF   | 48.4                | 44      | 40.4    |
|          | 29                  | HFW29S-2STAE1LF   | 60.4                | 56      | 52.4    |
|          | 30                  | HFW30S-2STAE1LF   | 60.4                | 56      | 52.4    |
| *        | 31                  | HFW31S-2STAE1LF   | 60.4                | 56      | 52.4    |
|          | 32                  | HFW32S-2STAE1LF   | 60.4                | 56      | 52.4    |
| *        | 33                  | HFW33S-2STAE1LF   | 60.4                | 56      | 52.4    |

CAT. NO. HFW (n) S - 2 ST A E1 LF

SERIES

NO. OF CONTACTS

STRAIGHT TYPE

FOR FPC / FFC

FOR AUTOMATIC MOUNTING (SMT)

VARIATION GOLD PLATING

PACKAGE STYLE

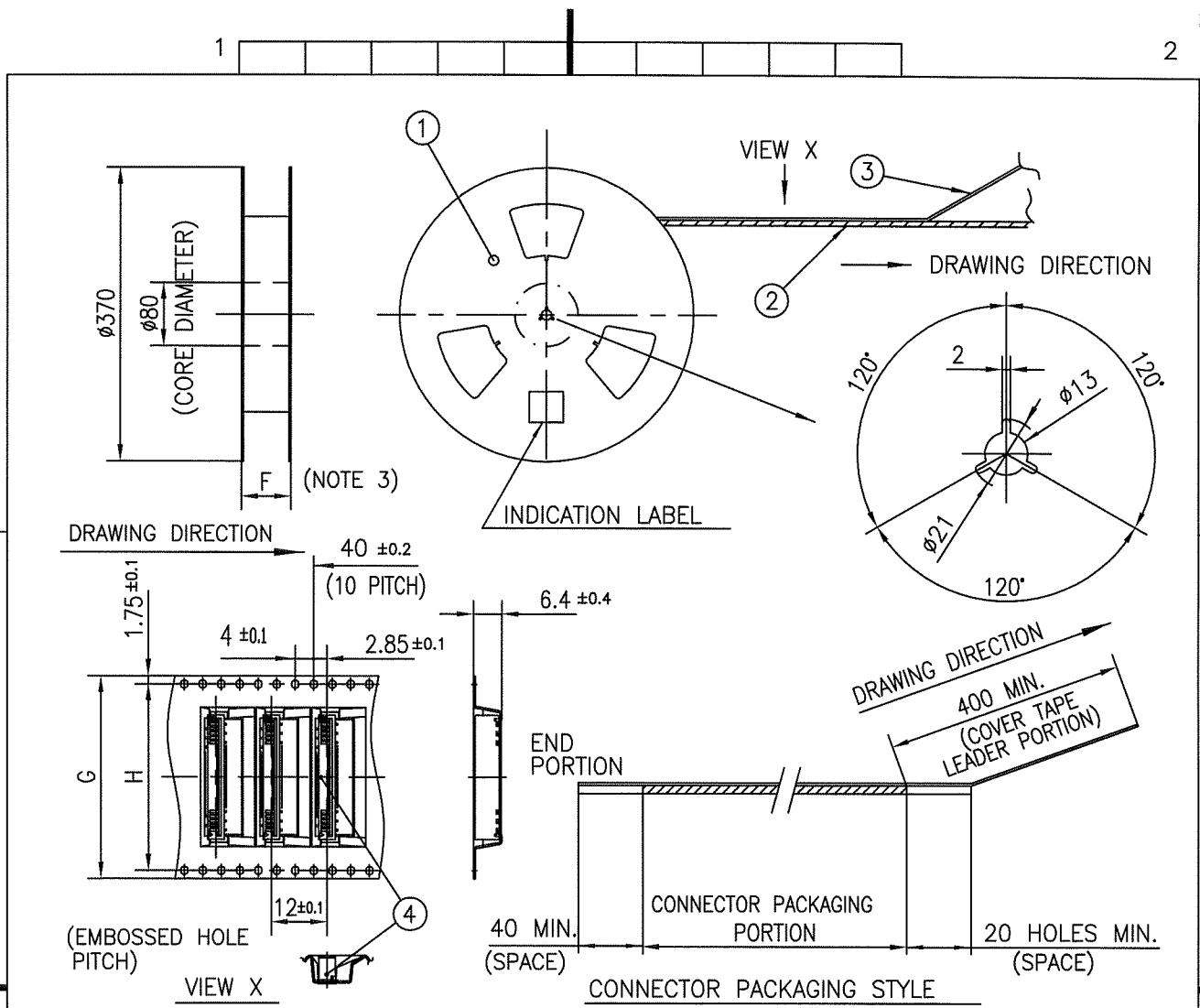
LEAD FREE

NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPE WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS F~H.
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 580F                                                                     |  | CODE JP |  |
| ltr         | ecn no   | dr  | date       | tolerances unless otherwise specified              |            | mm         |  | title                                                                                   |  |         |  |
| A           | J07-0502 | H.T | 2007-10-10 | angles                                             | linear     | mm         |  | CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN. (CAT.No.HFW__S-2STAE1LF) |  |         |  |
|             |          |     |            |                                                    |            | scale X    |  | dwg no sheet 1 of 1 size                                                                |  |         |  |
|             |          |     |            | dr                                                 | 2007-10-10 | FCI        |  | JSA 97371 A4                                                                            |  |         |  |
|             |          |     | enrg       | 2007-10-10                                         |            |            |  |                                                                                         |  |         |  |
|             |          |     | chr        | 2007-10-10                                         |            |            |  |                                                                                         |  |         |  |
|             |          |     | appd       | 2007-10-10                                         |            |            |  |                                                                                         |  |         |  |
| sheet index | revision | A   | 1          | type Product Customer Drawing                      |            |            |  |                                                                                         |  |         |  |
|             | sheet    | 1   |            | Rev. A                                             |            |            |  |                                                                                         |  |         |  |

SC-HFWS06 JSA97369 97372  
form: A4



| PT. NO. | PARTS NAME             | CAT. NO.        | MATERIAL          | Q'TY  | NOTE               |
|---------|------------------------|-----------------|-------------------|-------|--------------------|
| 1       | REEL                   | _____           | CARDBOARD         | 1     | COLOR:GRAY         |
| 2       | PLASTIC (EMBOSSD) TAPE | _____           | PET               | _____ | COLOR:TRANSPARENCY |
| 3       | COVER                  | _____           | POLYESTER         | _____ | COLOR:TRANSPARENCY |
| 4       | CONNECTOR              | HFW__S-2STA__LF | SEE ATTACHED DWG. | 1000  | _____              |

#### NOTES

1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC/FFC AND COPS 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 (EMBOSSD) TAPE AND REEL.
3. F DIMENSION IS PORTION OF THE CORE.

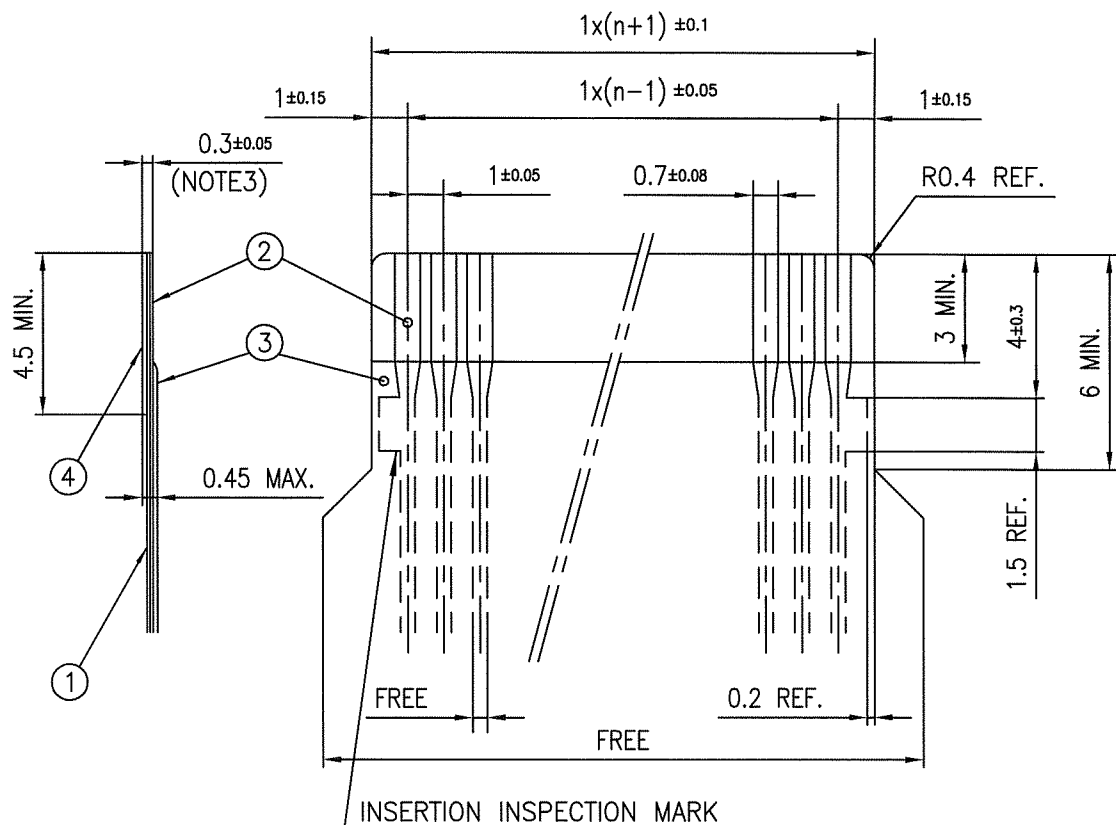
|             |                |     |            |                                                        |        |            |  |                                                                         |  |         |       |
|-------------|----------------|-----|------------|--------------------------------------------------------|--------|------------|--|-------------------------------------------------------------------------|--|---------|-------|
| mat'l. code |                |     |            | surface 58 / tolerance ISO 1302 ✓ / ISO 406 / ISO 1101 |        | projection |  | product family 580F                                                     |  | CODE JP |       |
| ltr         | ecn no         | dr  | date       | tolerances unless otherwise specified                  |        | mm         |  | title                                                                   |  |         |       |
| A           | J07-0502       | H.T | 2007-10-10 | angles                                                 | linear | mm         |  | PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (CAT.No.HFW__S-2STA1LF) |  |         |       |
|             |                |     |            | ±5°                                                    |        | scale X    |  | dwg no sheet 1 of 1 size                                                |  |         |       |
|             |                |     |            | dr                                                     | engr   | FCI        |  | JSA 97372 A4                                                            |  |         |       |
|             |                |     |            | chr                                                    | appd   |            |  | type Product Customer Drawing                                           |  |         |       |
| sheet index | revision sheet | A   | 1          |                                                        |        |            |  |                                                                         |  |         | Rev A |

SC-HFWS06 JSA97371  
form: A4



# RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTORS



| PT. NO. | DISCRIPTION     | MATERIAL                             | THICKNESS (μm) |
|---------|-----------------|--------------------------------------|----------------|
| 1       | BASE FILM       | POLYIMIDE OR POLYESTER OR EQUIVALENT | 25             |
| 2       | CONDUCTOR       | COPPER FOIL (PLATING : GOLD.)        | 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 V ISO 406 ISO 1101 |        | projection |      | product family 580F                      |  | CODE JP      |      |
| ltr         | ecn no         | dr  | date       | tolerances unless otherwise specified              |        | mm         |      | title                                    |  |              |      |
| A           | J07-0502       | H.T | 2007-10-10 | angles                                             | linear | mm         |      | RECOMMENDED CABLE (CAT.No.HFW__S-2STA__) |  |              |      |
|             |                |     |            | dr                                                 | engr   | chr        | appd | dwg no                                   |  | sheet 1 of 1 | size |
|             |                |     |            |                                                    |        |            |      | JSA 97373                                |  |              | A4   |
|             |                |     |            |                                                    |        |            |      | type Product Customer Drawing            |  |              |      |
| sheet index | revision sheet | A   | 1          | Rev A                                              |        |            |      |                                          |  |              |      |

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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