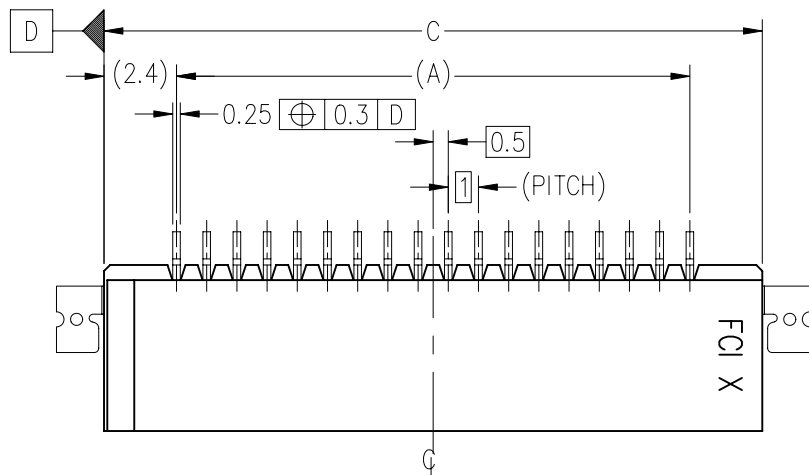
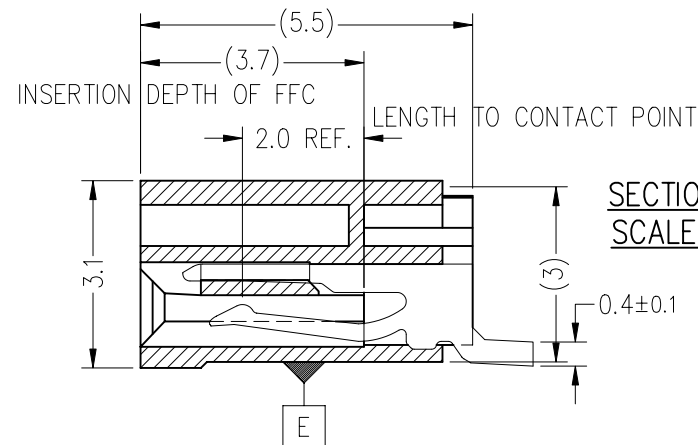
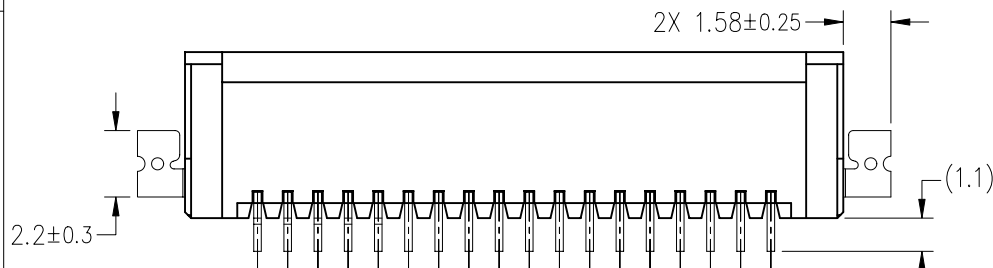
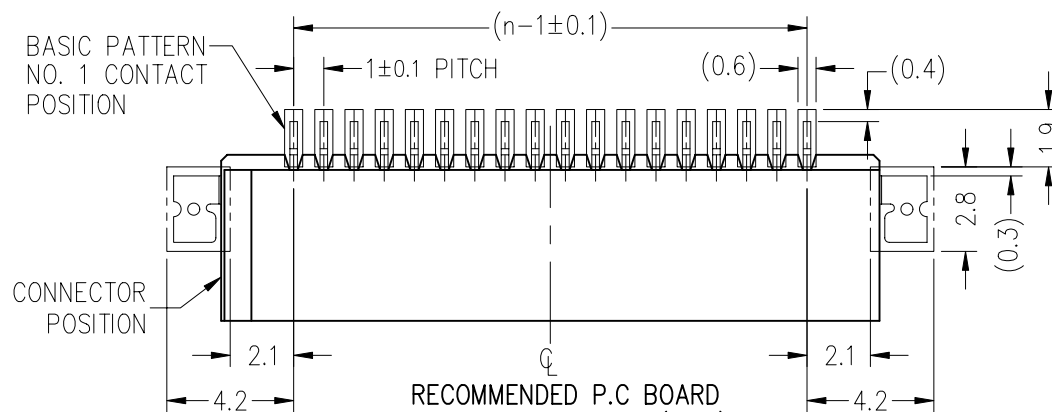


(FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE)  
MISALIGNMENT OF SOLDER TAIL AND FITTING NAIL FROM DATUM E  
: UPPER DIRECTION .10 MAX. , LOWER DIRECTION 0.15 MAX.

※ <<ALTERNATE CORE AND RIB CONSTRUCTION, NON-FUNCTION,  
AND OR FOR PLASTIC MOLDING PROCESS PURPOSE>>



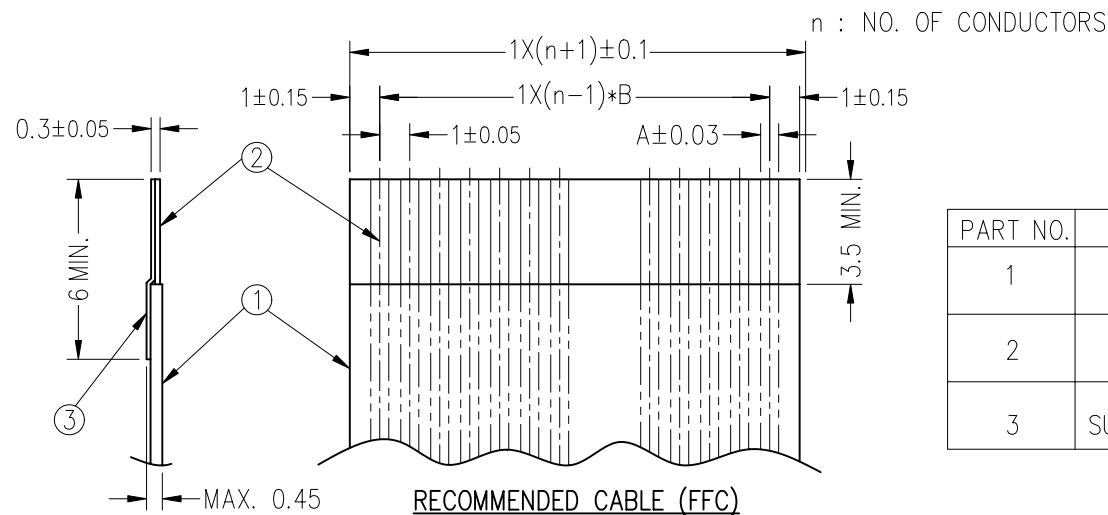
SECTION X-X  
SCALE 8 : 1



RECOMMENDED P.C BOARD  
PATTERN DIMENSION. (REF.)  
(MOUNTING AREA)

RECOMMENDED SOLDER PASTE  
THICK 0.15mm [.006"] MIN.

| mat'l. code |          |          |        | tolerances unless otherwise specified |         |         | projection | product family           |  |  |
|-------------|----------|----------|--------|---------------------------------------|---------|---------|------------|--------------------------|--|--|
| ltr         | ecn no   | dr       | date   | angles                                | linear  | linear  | mm         | FFC/FPC                  |  |  |
| A           | S07-0203 | SLLIM    | 070615 |                                       |         | .XX±.20 |            | title                    |  |  |
| B           | S07-0450 | SLLIM    | 071226 |                                       |         |         |            | 1mm SPACING SMT          |  |  |
| C           | S08-0180 | SLLIM    | 080819 | X±2"                                  |         |         | scale 4:1  | FFC/FPC CONNECTOR        |  |  |
|             |          |          |        | dr                                    | SLLIM   | 060907  |            | dwg no                   |  |  |
|             |          |          |        | enrg                                  | SLLIM   | 060907  |            | sheet 1 of 6             |  |  |
|             |          |          |        | chr                                   | SLLIM   | 060907  |            | 10073872                 |  |  |
|             |          |          |        | appd                                  | JOEY NG | 060908  |            | A4                       |  |  |
| sheet index |          | revision | sheet  | C                                     | C       | C       | C          | type                     |  |  |
|             |          | 1        | 2      | 3                                     | 4       | 5       | 6          | Product Customer Drawing |  |  |



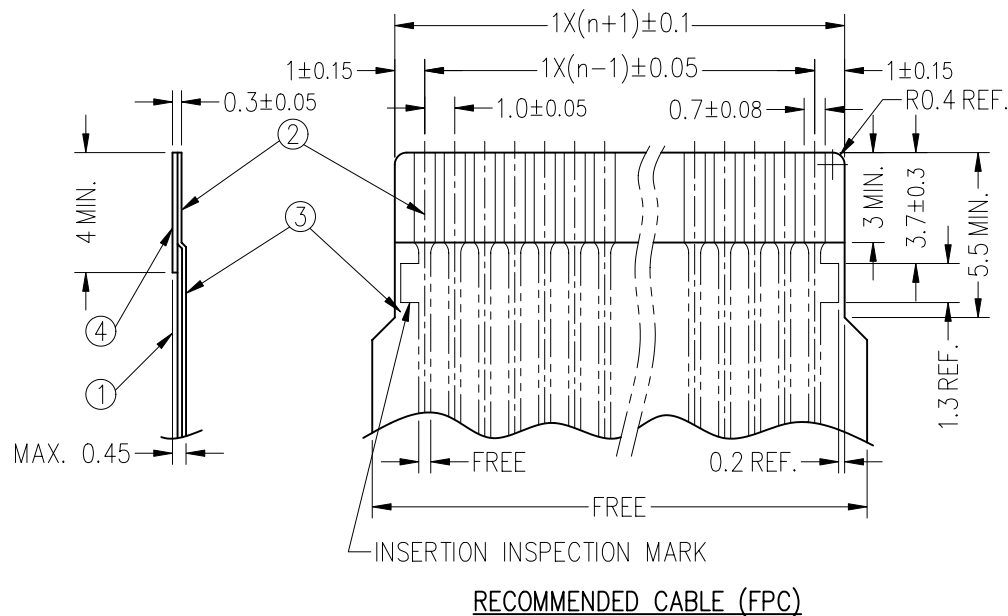
| (NOTE C) | DIMENSION<br>A | TOLERANCE<br>B |
|----------|----------------|----------------|
| 1        | 0.7            | 0.1            |
| 2        | 0.6            | 0.07           |

### RECOMMENDED CABLE (FFC)

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

### NOTES:

- A.) NO BURR AT EACH PORION.  
 B.) NO PEELING IN COMMON USE.  
 C.) BOTH COMBINATION IS ALLOWED.



### RECOMMENDED CABLE (FPC)

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

|             |                |      |      |                                       |        |            |                                      |                          |
|-------------|----------------|------|------|---------------------------------------|--------|------------|--------------------------------------|--------------------------|
| mat'l. code |                |      |      | tolerances unless otherwise specified |        | projection | product family<br>FFC/FPC            |                          |
| ltr         | ecn no         | dr   | date | angles                                | linear | mm         | title                                |                          |
| c           |                |      |      | x'±2°                                 | -----  | scale 4:1  | 1mm SPACING SMT<br>FPC/FFC CONNECTOR |                          |
|             |                | dr   |      | SLLIM                                 | 060907 |            | dwg no                               | sheet 2 of 6             |
|             |                | enr  |      | SLLIM                                 | 060907 |            | 10073872                             | A4                       |
|             |                | chr  |      | SLLIM                                 | 060907 |            |                                      |                          |
|             |                | appd |      | JOEY NG                               | 060908 |            | type                                 | Product Customer Drawing |
| sheet index | revision sheet |      |      |                                       |        |            |                                      |                          |

| PART NO. | PARTS NAME | MATERIAL                                            | Q'TY | NOTE                   |
|----------|------------|-----------------------------------------------------|------|------------------------|
| 1        | HOUSING    | HIGH TEMPERATURE THERMOPLASTIC REINFORCED (UL94V-0) | 1    | COLOR: BLACK           |
| 2        | CONTACT    | PHOSPHOR BRONZE                                     | n    | PLATING<br>(LEAD FREE) |
| 3        | SMT CLIP   | BRASS                                               | 2    |                        |

CATALOG NUMBER HFW (n) R -1 ST E1 MT LF

SERIES

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FFC/FPC, CONTACT DIRECTION, (LOWER CONTACT TYPE)

FOR AUTOMATIC MOUNTING -- (SMT)

TAPE & REEL PACKAGING

MODIFY VERSION

LEAD FREE

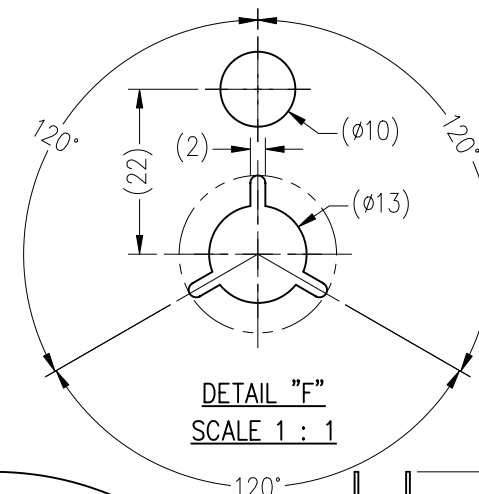
|         |                  |    |       |      |
|---------|------------------|----|-------|------|
| 30      | HFW30R-1STE1MTLF | 29 | 31.14 | 33.8 |
| 29      | HFW29R-1STE1MTLF | 28 | 30.14 | 32.8 |
| 28      | HFW28R-1STE1MTLF | 27 | 29.14 | 31.8 |
| 27      | HFW27R-1STE1MTLF | 26 | 28.14 | 30.8 |
| 26      | HFW26R-1STE1MTLF | 25 | 27.14 | 29.8 |
| 25      | HFW25R-1STE1MTLF | 24 | 26.14 | 28.8 |
| 24      | HFW24R-1STE1MTLF | 23 | 25.14 | 27.8 |
| 23      | HFW23R-1STE1MTLF | 22 | 24.13 | 26.8 |
| 22      | HFW22R-1STE1MTLF | 21 | 23.14 | 25.8 |
| 21      | HFW21R-1STE1MTLF | 20 | 22.14 | 24.8 |
| 20      | HFW20R-1STE1MTLF | 19 | 21.14 | 23.8 |
| 19      | HFW19R-1STE1MTLF | 18 | 20.14 | 22.8 |
| 18      | HFW18R-1STE1MTLF | 17 | 19.14 | 21.8 |
| 17      | HFW17R-1STE1MTLF | 16 | 18.14 | 20.8 |
| 16      | HFW16R-1STE1MTLF | 15 | 17.14 | 19.8 |
| 15      | HFW15R-1STE1MTLF | 14 | 16.14 | 18.8 |
| 14      | HFW14R-1STE1MTLF | 13 | 15.14 | 17.8 |
| 13      | HFW13R-1STE1MTLF | 12 | 14.14 | 16.8 |
| 12      | HFW12R-1STE1MTLF | 11 | 13.14 | 15.8 |
| 11      | HFW11R-1STE1MTLF | 10 | 12.14 | 14.8 |
| 10      | HFW10R-1STE1MTLF | 9  | 11.14 | 13.8 |
| 9       | HFW9R-1STE1MTLF  | 8  | 10.14 | 12.8 |
| 8       | HFW8R-1STE1MTLF  | 7  | 9.14  | 11.8 |
| 7       | HFW7R-1STE1MTLF  | 6  | 8.14  | 10.8 |
| 6       | HFW6R-1STE1MTLF  | 5  | 7.14  | 9.8  |
| 5       | HFW5R-1STE1MTLF  | 4  | 6.14  | 8.8  |
| 4       | HFW4R-1STE1MTLF  | 3  | 5.14  | 7.8  |
| CIRCUIT | CATALOG NO.      | A  | B     | C    |

#### NOTES

- THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPE WITH AUTOMATIC MOUNTING (SMT).
- MISALIGNMENT OF SOLDER TAIL AND SMT CLIP FROM DATUM E : UPPER DIRECTION 0.10 MAX. , LOWER DIRECTION 0.15 MAX.
- THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR.
- THIS PRODUCT IS MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.
- THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR.
- THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.

|             |        |          |       |                                       |         |                           |            |                           |                                      |                          |
|-------------|--------|----------|-------|---------------------------------------|---------|---------------------------|------------|---------------------------|--------------------------------------|--------------------------|
| mat'l. code |        |          |       | tolerances unless otherwise specified |         |                           | projection | product family<br>FFC/FPC |                                      |                          |
| ltr         | ecn no | dr       | date  | angles                                | linear  | -----<br>.XX±.20<br>----- | mm         | scale 4:1                 | title                                |                          |
| c           |        |          |       |                                       |         |                           |            |                           | 1mm SPACING SMT<br>FPC/FFC CONNECTOR |                          |
|             |        |          |       | x'±2"                                 |         |                           |            |                           | dwg no                               | sheet 3 of 6             |
|             |        |          |       | dr                                    | SLLIM   | 060907                    |            |                           | 10073872                             | size<br>A4               |
|             |        |          |       | enrg                                  | SLLIM   | 060907                    |            |                           |                                      |                          |
|             |        |          |       | chr                                   | SLLIM   | 060907                    |            |                           |                                      |                          |
|             |        |          |       | appd                                  | JOEY NG | 060908                    |            |                           | type                                 | Product Customer Drawing |
| sheet index |        | revision | sheet |                                       |         |                           |            |                           |                                      |                          |

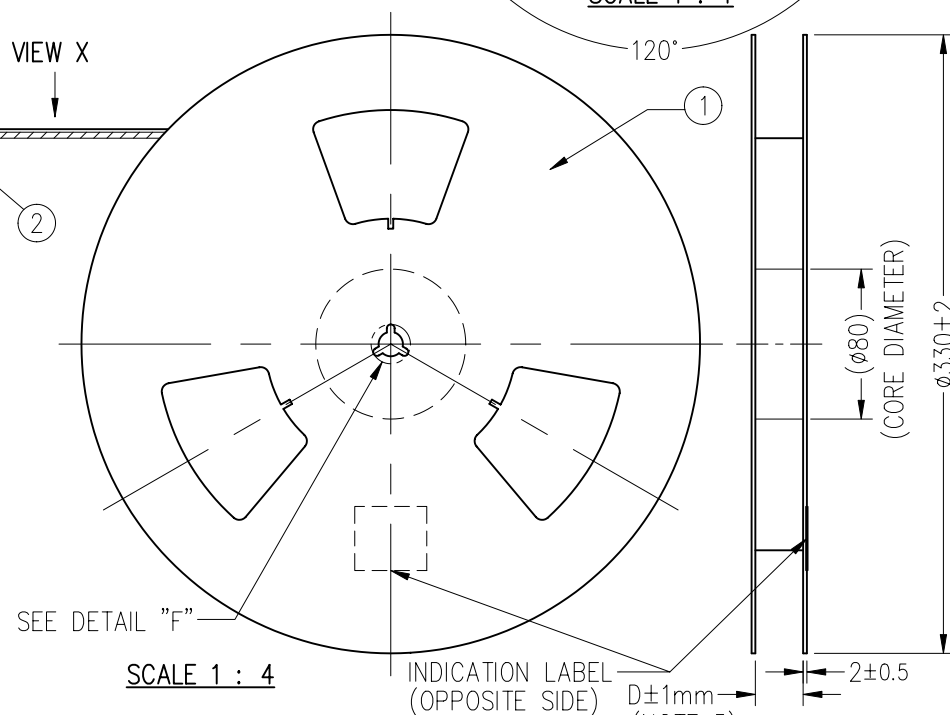
| P/N: | PARTS NAME                         | CATALOG NO.      | MATERIAL                                         | QUANTITY      | NOTE                           |
|------|------------------------------------|------------------|--------------------------------------------------|---------------|--------------------------------|
| ①    | REEL                               | -----            | POLYSTYRENE (PS)<br><RECYCLE MATERIAL CONTAINED> | 01            | COLOR: BLACK                   |
| ②    | PLASTIC (EMBOSSED)<br>CARRIER TAPE | -----            | POLYSTYRENE<br>(0.4mm Thick)                     | -----         | COLOR: (CLEAR)<br>TRANSPARENCY |
| ③    | COVER (TOP TAPE)                   | -----            | POLYESTER                                        | -----         | COLOR: (CLEAR)<br>TRANSPARENCY |
| ④    | CONNECTOR                          | HFW__R-1STE1MTLF | SEE ATTACHED DRAWING                             | 1,000PCS/REEL | LOWER CONTACT TYPE             |



SCALE 4 : 1

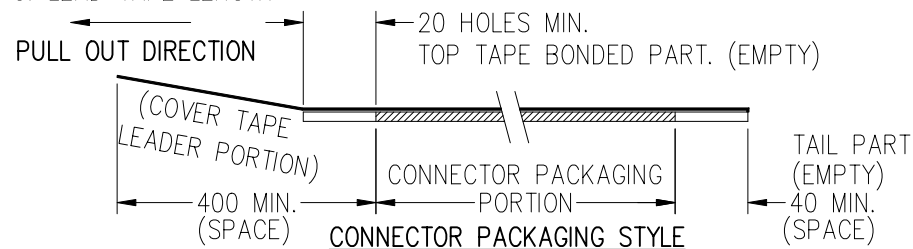
PULL OUT DIRECTION

VIEW X

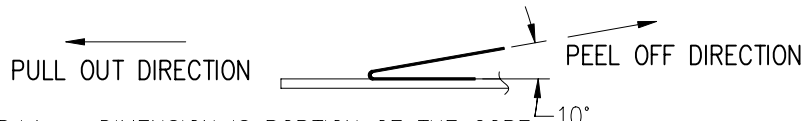


#### NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPEs WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONICS COMPONENTS ON CONTINUOUS TAPES, SURFACE MOUNT DEVICES) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSSED) TAPE AND REEL.
- LEAD TAPE LENGTH

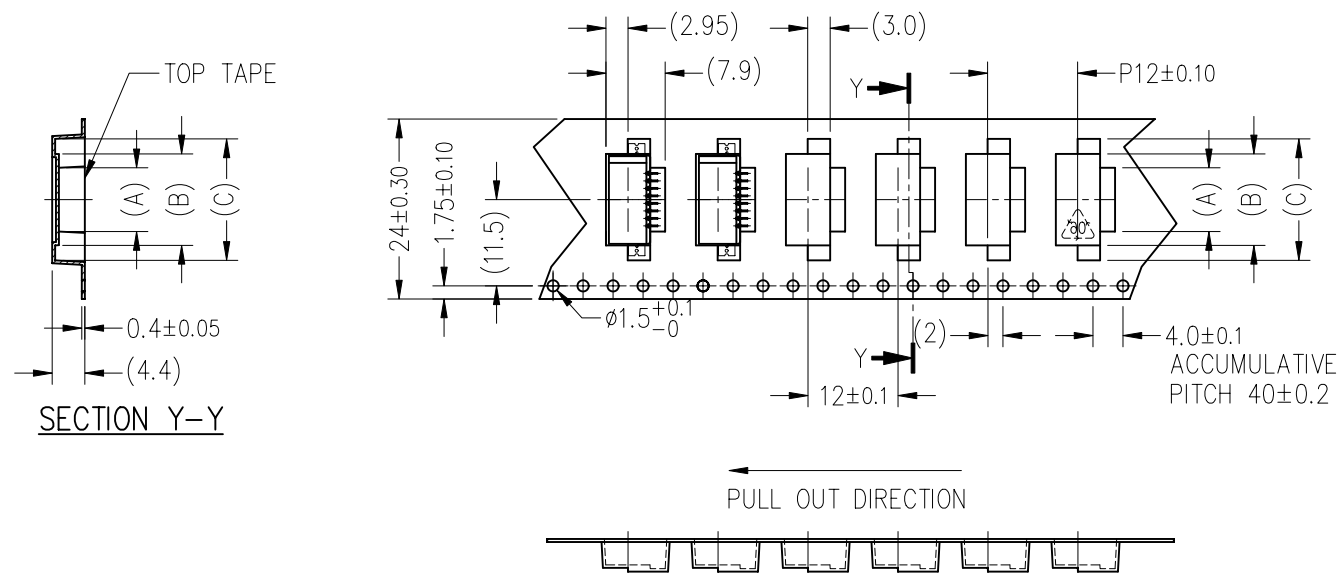


- PEELING OFF FORCE OF TOP TAPE TAPE: 0.1N~0.7N(10.2gf~71.4gf) (PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.) THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT. PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTATION.



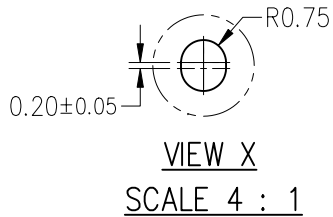
- D±1mm DIMENSION IS PORTION OF THE CORE.

|             |        |                |      |                                       |         |         |                                                                                       |                                               |  |              |      |           |
|-------------|--------|----------------|------|---------------------------------------|---------|---------|---------------------------------------------------------------------------------------|-----------------------------------------------|--|--------------|------|-----------|
| mat'l. code |        |                |      | tolerances unless otherwise specified |         |         | projection                                                                            | (NOTE 3)<br>product family<br>FFC/FPC         |  |              |      |           |
| ltr         | ecn no | dr             | date | angles                                | linear  | -----   |  | title<br>1mm SPACING SMT<br>FPC/FFC CONNECTOR |  |              |      |           |
| C           |        |                |      |                                       |         | .XX±.20 |                                                                                       |                                               |  |              |      | mm        |
|             |        |                |      |                                       |         | -----   |                                                                                       |                                               |  |              |      | scale 4:1 |
|             |        |                |      | dr                                    | SLLIM   | 060907  |  | dwg no                                        |  | sheet 4 of 6 | size |           |
|             |        |                |      | enrg                                  | SLLIM   | 060907  |                                                                                       | 10073872                                      |  | A4           |      |           |
|             |        |                |      | chr                                   | SLLIM   | 060907  |                                                                                       |                                               |  |              |      |           |
|             |        |                |      | appd                                  | JOEY NG | 060908  |                                                                                       | type Product Customer Drawing                 |  |              |      |           |
| sheet index |        | revision sheet |      |                                       |         |         |                                                                                       |                                               |  |              |      |           |

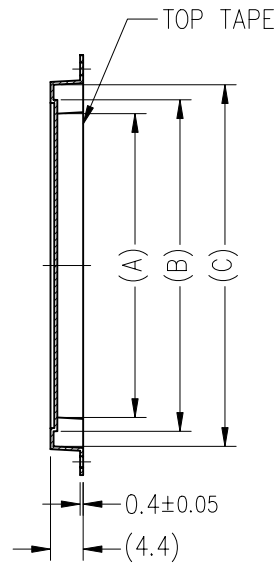


|         |                  |      |      |      |                    |                       |
|---------|------------------|------|------|------|--------------------|-----------------------|
| 10      | HFW10R-1STE1MTLF | 10.5 | 14.2 | 18.2 | 25.5               | 24                    |
| 9       | HFW9R-1STE1MTLF  | 9.5  | 13.2 | 17.2 |                    |                       |
| 8       | HFW8R-1STE1MTLF  | 8.5  | 12.2 | 16.2 |                    |                       |
| 7       | HFW7R-1STE1MTLF  | 7.5  | 11.2 | 15.5 |                    |                       |
| 6       | HFW6R-1STE1MTLF  | 6.5  | 10.2 | 14.2 |                    |                       |
| 5       | HFW5R-1STE1MTLF  | 5.5  | 9.2  | 13.2 |                    |                       |
| 4       | HFW4R-1STE1MTLF  | 4.5  | 8.2  | 12.2 | D±1mm<br>REEL CORE | CARRIER TAPE<br>WIDTH |
| CIRCUIT | CATALOG NO.      | (A)  | (B)  | (C)  |                    |                       |

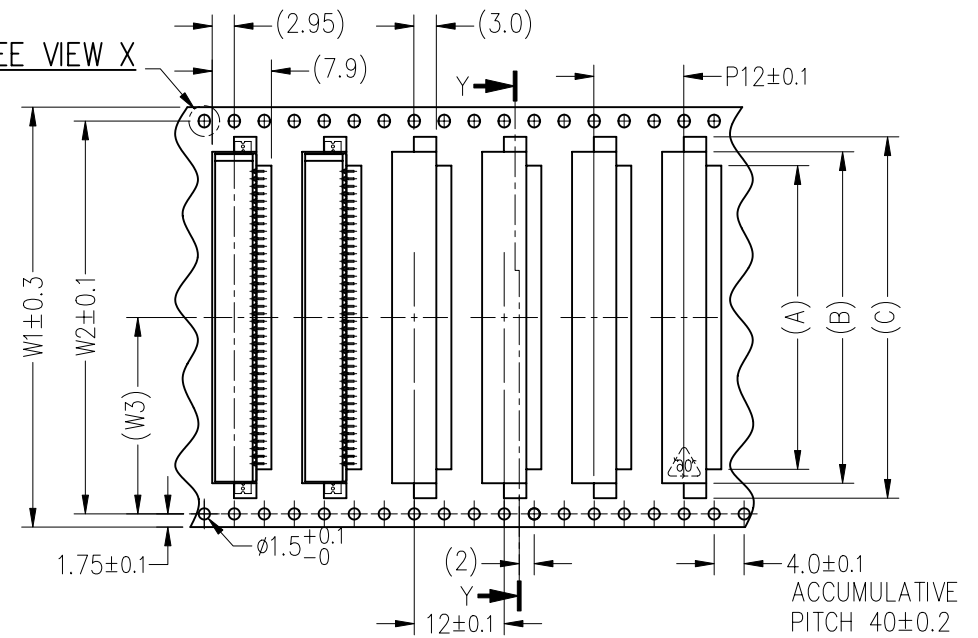
|             |                |    |      |                                          |         |            |                                      |              |                  |
|-------------|----------------|----|------|------------------------------------------|---------|------------|--------------------------------------|--------------|------------------|
| mat'l. code |                |    |      | tolerances unless<br>otherwise specified |         | projection | product family<br>FFC/FPC            |              |                  |
| ltr         | ecn no         | dr | date | angles                                   | linear  | mm         | title                                |              |                  |
| c           |                |    |      | x°±2°                                    |         | scale 4:1  | 1mm SPACING SMT<br>FPC/FFC CONNECTOR |              |                  |
|             |                |    |      | dr                                       | SLLIM   | 060907     | dwg no                               | sheet 5 of 6 | size             |
|             |                |    |      | enr                                      | SLLIM   | 060907     | 10073872                             |              |                  |
|             |                |    |      | chr                                      | SLLIM   | 060907     | A4                                   |              |                  |
|             |                |    |      | appd                                     | JOEY NG | 060908     | type                                 | Product      | Customer Drawing |
| sheet index | revision sheet |    |      |                                          |         |            |                                      |              |                  |



# SECTION Y-Y



SEE VIEW X



PULL OUT DIRECTION



32mm, 44mm, & 56mm WIDTH CARRIER TAPE

|         |                  |      |      |      |                    |              |      |      |
|---------|------------------|------|------|------|--------------------|--------------|------|------|
| 30      | HFW30R-1STE1MTLF | 30.5 | 34.2 | 38.2 | 57.5               | 56           | 52.4 | 26.2 |
| 29      | HFW29R-1STE1MTLF | 29.5 | 33.2 | 37.2 |                    |              |      |      |
| 28      | HFW28R-1STE1MTLF | 28.5 | 32.2 | 36.2 |                    |              |      |      |
| 27      | HFW27R-1STE1MTLF | 27.5 | 31.2 | 35.2 | 45.5               | 44           | 40.4 | 20.2 |
| 26      | HFW26R-1STE1MTLF | 26.5 | 30.2 | 34.2 |                    |              |      |      |
| 25      | HFW25R-1STE1MTLF | 25.5 | 29.2 | 33.2 |                    |              |      |      |
| 24      | HFW24R-1STE1MTLF | 24.5 | 28.2 | 32.2 |                    |              |      |      |
| 23      | HFW23R-1STE1MTLF | 23.5 | 27.2 | 31.2 |                    |              |      |      |
| 22      | HFW22R-1STE1MTLF | 22.2 | 26.2 | 30.2 |                    |              |      |      |
| 21      | HFW21R-1STE1MTLF | 21.5 | 25.2 | 29.2 |                    |              |      |      |
| 20      | HFW20R-1STE1MTLF | 20.5 | 24.2 | 28.2 |                    |              |      |      |
| 19      | HFW19R-1STE1MTLF | 19.5 | 23.2 | 27.2 |                    |              |      |      |
| 18      | HFW18R-1STE1MTLF | 18.5 | 22.2 | 26.2 |                    |              |      |      |
| 17      | HFW17R-1STE1MTLF | 17.5 | 21.2 | 25.2 | 33.5               | 32           | 28.4 | 14.2 |
| 16      | HFW16R-1STE1MTLF | 16.5 | 20.2 | 24.2 |                    |              |      |      |
| 15      | HFW15R-1STE1MTLF | 15.5 | 19.2 | 23.2 |                    |              |      |      |
| 14      | HFW14R-1STE1MTLF | 14.5 | 18.2 | 22.2 |                    |              |      |      |
| 13      | HFW13R-1STE1MTLF | 13.5 | 17.2 | 21.2 |                    |              |      |      |
| 12      | HFW12R-1STE1MTLF | 12.5 | 16.2 | 20.2 |                    |              |      |      |
| 11      | HFW11R-1STE1MTLF | 11.5 | 15.2 | 19.2 | D±1mm<br>REEL CORE | W1           | W2   | (W3) |
| CIRCUIT | CATALOG NO.      | (A)  | (B)  | (C)  |                    | CARRIER TAPE |      |      |

|             |                |    |      |                                       |         |         |            |                                   |  |  |
|-------------|----------------|----|------|---------------------------------------|---------|---------|------------|-----------------------------------|--|--|
| mat'l. code |                |    |      | tolerances unless otherwise specified |         |         | projection | product family FFC/FPC            |  |  |
| ltr         | ecn no         | dr | date | angles                                | linear  | -----   | mm         | title                             |  |  |
| c           |                |    |      | X°±2°                                 |         | .XX±.20 | scale 4:1  | 1mm SPACING SMT FPC/FFC CONNECTOR |  |  |
|             |                |    |      | dr                                    | SLLIM   | 060907  |            | dwg no sheet 6 of 6 size          |  |  |
|             |                |    |      | enr                                   | SLLIM   | 060907  |            | 10073872 A4                       |  |  |
|             |                |    |      | chr                                   | SLLIM   | 060907  |            | type Product Customer Drawing     |  |  |
|             |                |    |      | appd                                  | JOEY NG | 060908  |            |                                   |  |  |
| sheet index | revision sheet |    |      |                                       |         |         |            |                                   |  |  |

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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moschip.ru\_6

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