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Part Number:

0039532055

Status:

Active

Overview:

Description:

1.25mm (.049") Pitch FFC/FPC Connector, Through-Hole, Vertical, ZIF, 5 Circuits, Lead-free

Agency Certification

UL

E29179

General

Product Family

FFC/FPC Connectors

Series

5597

Overview

ffc\_fpc\_throughhole

Product Name

N/A

Physical

Circuits (Loaded)

5

Color - Resin

Natural

Contact Position

N/A

Durability (mating cycles max)

30

Entry Angle

Vertical

Flammability

94V-0

Mated Height (in)

0.295 In

Mated Height (mm)

7.50 mm

Material - Metal

Phosphor Bronze

Material - Plating Mating

Tin-Bismuth

Material - Plating Termination

Tin-Bismuth

Material - Resin

Polyester

Number of Rows

1

Orientation

Vertical

PC Tail Length (in)

0.138 In

PC Tail Length (mm)

3.50 mm

PCB Locator

No

PCB Retention

None

Packaging Type

Tray

Pitch - Mating Interface (in)

0.049 In

Pitch - Mating Interface (mm)

1.25 mm

Plating min: Mating (µin)

40

Plating min: Mating (µm)

1

Plating min: Termination (µin)

40

Plating min: Termination (µm)

1

Polarized to PCB

No

Stackable

No

Surface Mount Compatible (SMC)

No

Temperature Range - Operating

-20°C to +80°C

Termination Interface: Style

Through Hole

Wire/Cable Type

FFC/FPC

Electrical

Current - Maximum per Contact

1A

Voltage - Maximum

200V

Material Info

Old Part Number

5597-05CPB7F

Reference - Drawing Numbers

Packaging Specification

SPK-5597-001

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

5597Series

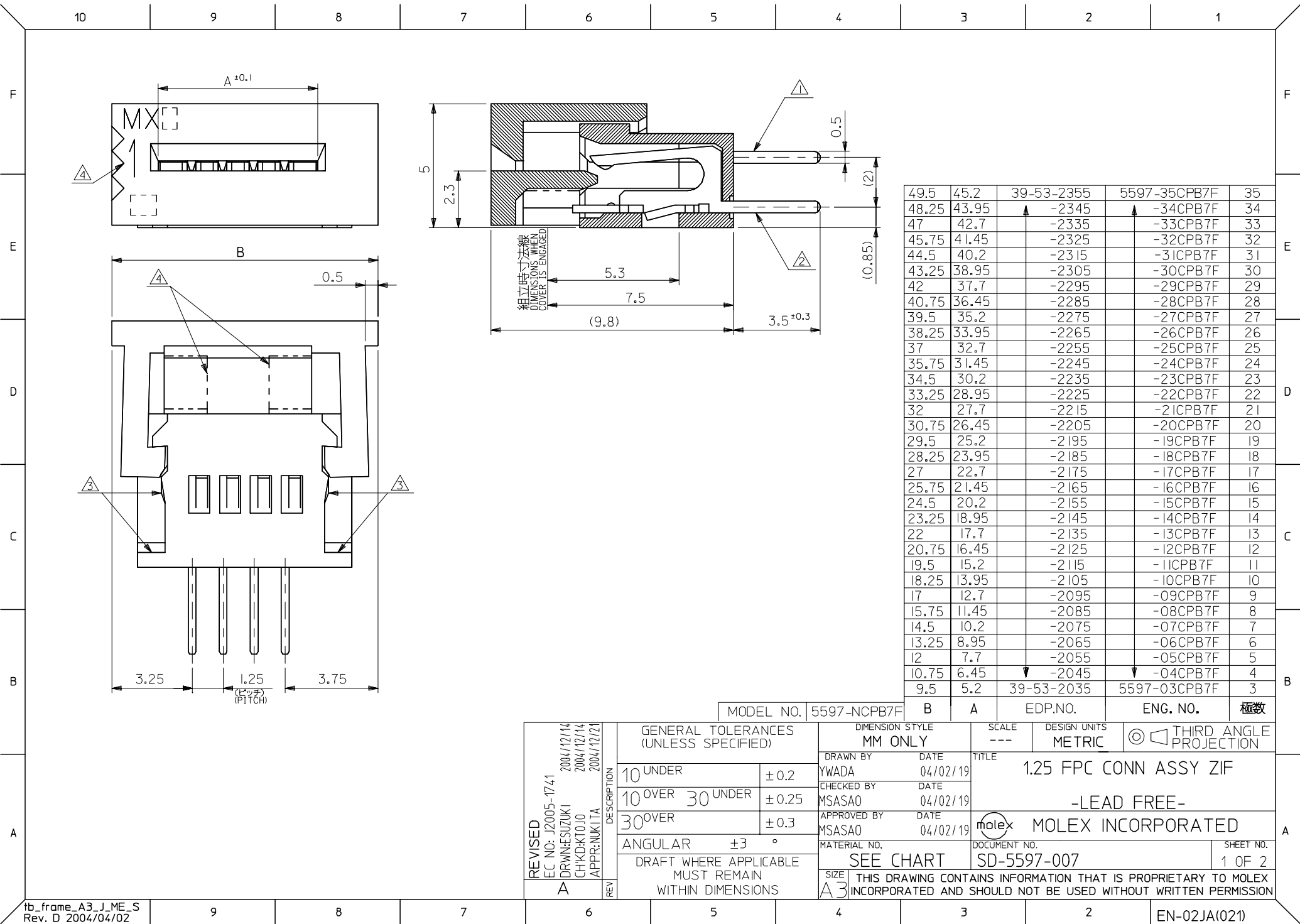
Product Specification

Sales Drawing

PS-5597-004, RPS-5597-005, RPS-5597-006,  
RPS-5597-013, RPS-5597-014, RPS-5597-015,  
RPS-5597-016  
SD-5597-007

This document was generated on 06/04/2010

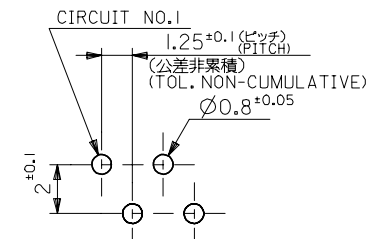
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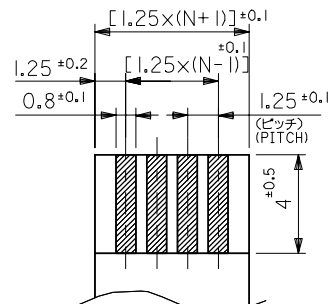
|       |       |            |              |    |
|-------|-------|------------|--------------|----|
| 49.5  | 45.2  | 39-53-2355 | 5597-35CPB7F | 35 |
| 48.25 | 43.95 | -2345      | -34CPB7F     | 34 |
| 47    | 42.7  | -2335      | -33CPB7F     | 33 |
| 45.75 | 41.45 | -2325      | -32CPB7F     | 32 |
| 44.5  | 40.2  | -2315      | -31CPB7F     | 31 |
| 43.25 | 38.95 | -2305      | -30CPB7F     | 30 |
| 42    | 37.7  | -2295      | -29CPB7F     | 29 |
| 40.75 | 36.45 | -2285      | -28CPB7F     | 28 |
| 39.5  | 35.2  | -2275      | -27CPB7F     | 27 |
| 38.25 | 33.95 | -2265      | -26CPB7F     | 26 |
| 37    | 32.7  | -2255      | -25CPB7F     | 25 |
| 35.75 | 31.45 | -2245      | -24CPB7F     | 24 |
| 34.5  | 30.2  | -2235      | -23CPB7F     | 23 |
| 33.25 | 28.95 | -2225      | -22CPB7F     | 22 |
| 32    | 27.7  | -2215      | -21CPB7F     | 21 |
| 30.75 | 26.45 | -2205      | -20CPB7F     | 20 |
| 29.5  | 25.2  | -2195      | -19CPB7F     | 19 |
| 28.25 | 23.95 | -2185      | -18CPB7F     | 18 |
| 27    | 22.7  | -2175      | -17CPB7F     | 17 |
| 25.75 | 21.45 | -2165      | -16CPB7F     | 16 |
| 24.5  | 20.2  | -2155      | -15CPB7F     | 15 |
| 23.25 | 18.95 | -2145      | -14CPB7F     | 14 |
| 22    | 17.7  | -2135      | -13CPB7F     | 13 |
| 20.75 | 16.45 | -2125      | -12CPB7F     | 12 |
| 19.5  | 15.2  | -2115      | -11CPB7F     | 11 |
| 18.25 | 13.95 | -2105      | -10CPB7F     | 10 |
| 17    | 12.7  | -2095      | -09CPB7F     | 9  |
| 15.75 | 11.45 | -2085      | -08CPB7F     | 8  |
| 14.5  | 10.2  | -2075      | -07CPB7F     | 7  |
| 13.25 | 8.95  | -2065      | -06CPB7F     | 6  |
| 12    | 7.7   | -2055      | -05CPB7F     | 5  |
| 10.75 | 6.45  | -2045      | -04CPB7F     | 4  |
| 9.5   | 5.2   | 39-53-2035 | 5597-03CPB7F | 3  |

|           |             |   |   |         |          |    |
|-----------|-------------|---|---|---------|----------|----|
| MODEL NO. | 5597-NCPB7F | B | A | EDP.NO. | ENG. NO. | 極数 |
|-----------|-------------|---|---|---------|----------|----|

|                                                                                                                     |             |                                                            |                                                                                                                                             |                            |                  |                                                    |                        |                           |  |  |
|---------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------|----------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2005-1741<br>DRW: ESUZUKI<br>CHK: KTOJO<br>APP: NUKITA<br>2004/12/14<br>2004/12/14<br>2004/12/21 | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |                                                                                                                                             | DIMENSION STYLE<br>MM ONLY |                  | SCALE<br>---                                       | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                     |             | 10 UNDER                                                   | ± 0.2                                                                                                                                       | YWADA                      | DATE<br>04/02/19 | TITLE<br>1.25 FPC CONN ASSY ZIF                    |                        |                           |  |  |
|                                                                                                                     |             | 10 OVER 30 UNDER                                           | ± 0.25                                                                                                                                      | CHECKED BY<br>MSASAO       | DATE<br>04/02/19 |                                                    |                        |                           |  |  |
|                                                                                                                     |             | 30 OVER                                                    | ± 0.3                                                                                                                                       | APPROVED BY<br>MSASAO      | DATE<br>04/02/19 | -LEAD FREE-<br><div>MOLEX</div> MOLEX INCORPORATED |                        |                           |  |  |
|                                                                                                                     |             | ANGULAR ±3 °                                               |                                                                                                                                             | MATERIAL NO.               |                  |                                                    |                        |                           |  |  |
|                                                                                                                     |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                             | SEE CHART                  |                  | SD-5597-007                                        |                        | 1 OF 2                    |  |  |
|                                                                                                                     | REV         |                                                            | SIZE<br>A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                  |                                                    |                        |                           |  |  |



基板取付穴推奨寸法 (t=1.6)  
RECOMMENDED P.C. BOARD  
HOLE DIMENSION (SCALE 5:1)



適合FPC/FFC推奨寸法  
RECOMMENDED FPC/FFC  
厚さ THK : 0.3 ± 0.05 (SCALE 5:1)

FPCについて:

打抜き方向は導体側から補強板側を推奨いたします。  
補強フィルム材質はポリイミドを推奨致します。  
接着剤は熱硬化接着剤を推奨致します。

ABOUT FPC:

RECOMMENDED PUNCHER DIRECTION :  
FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.  
RECOMMENDED MATERIAL:  
STIFFENER FILM : POLYIMIDE  
BONDING AGENT : THERMOSETTING BONDING AGENT

# 注記 NOTES

- ① MX J側を基準に奇数番目の極におけるソルダーテール。  
SOLDER TAIL OF ODD CKTS,MXJ MARK AS BASIC.
- ② MX J側を基準に偶数番目の極におけるソルダーテール。  
SOLDER TAIL OF EVEN CKTS,MXJ MARK AS BASIC.
- ③ 3極~10極に適用。APPLY FOR 3-10 CKTS.
- ④ 3極~19極に適用。APPLY FOR 3-19 CKTS.
5. ( ) 内寸法は、参考値。  
( ) DIMENSION IS FOR REFERENCE.
6. ソルダーテールは、先端が取付推奨穴にガイドされること。  
SOLDER TAILS MAY BE CHECKEDBY INSERSION  
FOR RECOMMENDED PCB BOARD HOLES.

## 7. 使用材料 MATERIAL

ハウジング、アクチュエーター: PBTP, UL94V-0  
HOUSING, ACTUATOR: PBTP,UL94V-0  
ターミナル: リン青銅 (t=0.3)  
PHOSPHOR BRONZE (t=0.3)  
錫ピスマスメッキ 1.0μm MIN.  
TIN-BISMUTH 1.0 MICROMETER MIN.  
ニッケル下地 1.0μm MIN.  
NICKEL 1.0 MICROMETER MIN.

8. 本製品は5597-NCPBの鉛フリー品である。  
THIS PRODUCT IS LEAD FREE OF 5597-NCPB.

|                                                                            |             |                                                                                                                                  |       |                       |                  |                                                    |              |                           |        |  |
|----------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------|------------------|----------------------------------------------------|--------------|---------------------------|--------|--|
| REVISED<br>EC NO: J2005-4741<br>DRAWN:SUZUKI<br>CHKD:K10 JO<br>APPR:NUKITA | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                         |       | DIMENSION STYLE       |                  | SCALE                                              | DESIGN UNITS | THIRD ANGLE<br>PROJECTION |        |  |
|                                                                            |             |                                                                                                                                  |       | MM ONLY               |                  | ---                                                | METRIC       |                           |        |  |
|                                                                            |             | 10 UNDER                                                                                                                         | ±0.2  | DRAWN BY<br>YWADA     | DATE<br>04/02/19 | TITLE<br>1.25 FPC CONN ASSY ZIF                    |              |                           |        |  |
|                                                                            |             | 10 OVER 30 UNDER                                                                                                                 | ±0.25 | CHECKED BY<br>MSASAO  | DATE<br>04/02/19 |                                                    |              |                           |        |  |
|                                                                            |             | 30 OVER                                                                                                                          | ±0.3  | APPROVED BY<br>MSASAO | DATE<br>04/02/19 | -LEAD FREE-<br><div>MOLEX</div> MOLEX INCORPORATED |              |                           |        |  |
|                                                                            |             | ANGULAR ±3 °                                                                                                                     |       | MATERIAL NO.          |                  |                                                    |              |                           |        |  |
|                                                                            |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |       | SEE CHART             |                  | SD-5597-007                                        |              |                           | 2 OF 2 |  |
| REV<br>A                                                                   |             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                       |                  |                                                    |              |                           |        |  |