

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0545502071

Status:

Active

Overview:

ffc\_fpc\_smt

Description:

0.50mm (.020") Pitch FFC/FPC Connector, 1.20mm (.047") Height, Right Angle, SMT, ZIF, Top Contact Style, 20 Circuits, Gold (Au) Contact Plating

Documents:

3D Model

Drawing (PDF)

Product Specification PS-54550-012 (PDF)

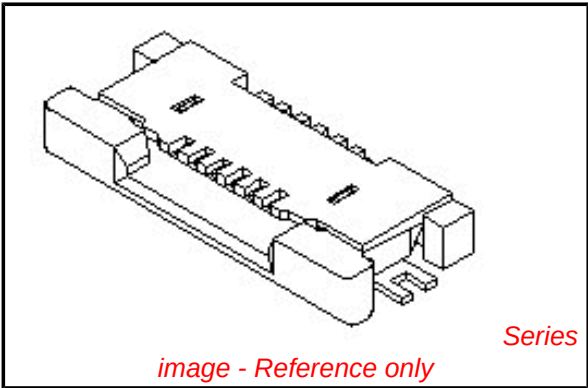
RoHS Certificate of Compliance (PDF)

|                                |                       |
|--------------------------------|-----------------------|
| General                        |                       |
| Product Family                 | FFC/FPC Connectors    |
| Series                         | 54550                 |
| Overview                       | ffc_fpc_smt           |
| Product Name                   | N/A                   |
| Physical                       |                       |
| Circuits (Loaded)              | 20                    |
| Contact Position               | Top                   |
| Durability (mating cycles max) | 20                    |
| Entry Angle                    | 90° Angle             |
| Mated Height (in)              | 0.047 In              |
| Mated Height (mm)              | 1.20 mm               |
| Material - Metal               | Phosphor Bronze       |
| Material - Plating Mating      | Gold                  |
| Material - Plating Termination | Tin                   |
| Number of Rows                 | 1                     |
| Orientation                    | Right Angle           |
| PCB Locator                    | No                    |
| PCB Retention                  | Yes                   |
| Packaging Type                 | Embossed Tape on Reel |
| Pitch - Mating Interface (in)  | 0.020 In              |
| Pitch - Mating Interface (mm)  | 0.50 mm               |
| Polarized to PCB               | Yes                   |
| Stackable                      | No                    |
| Temperature Range - Operating  | -20°C to +85°C        |
| Termination Interface: Style   | Surface Mount         |
| Wire/Cable Type                | FFC/FPC               |

|                               |      |
|-------------------------------|------|
| Electrical                    |      |
| Current - Maximum per Contact | 0.5A |
| Voltage - Maximum             | 50V  |

Material Info

|                             |                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------|
| Reference - Drawing Numbers |                                                                                                        |
| Packaging Specification     | SPK-54550-056                                                                                          |
| Product Specification       | PS-54550-012, RPS-54550-078, RPS-54550-080, RPS-54550-083, RPS-54550-088, RPS-54550-089, RPS-54550-090 |
| Sales Drawing               | SD-54550-042, SD-54550-043                                                                             |



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)

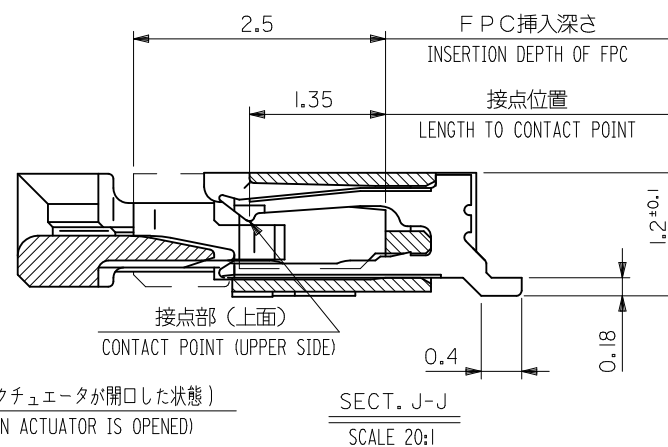
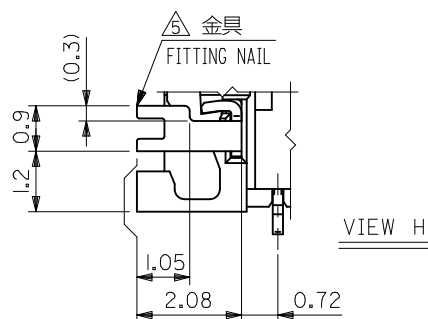
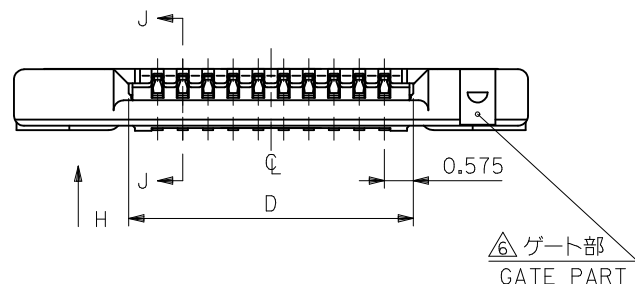
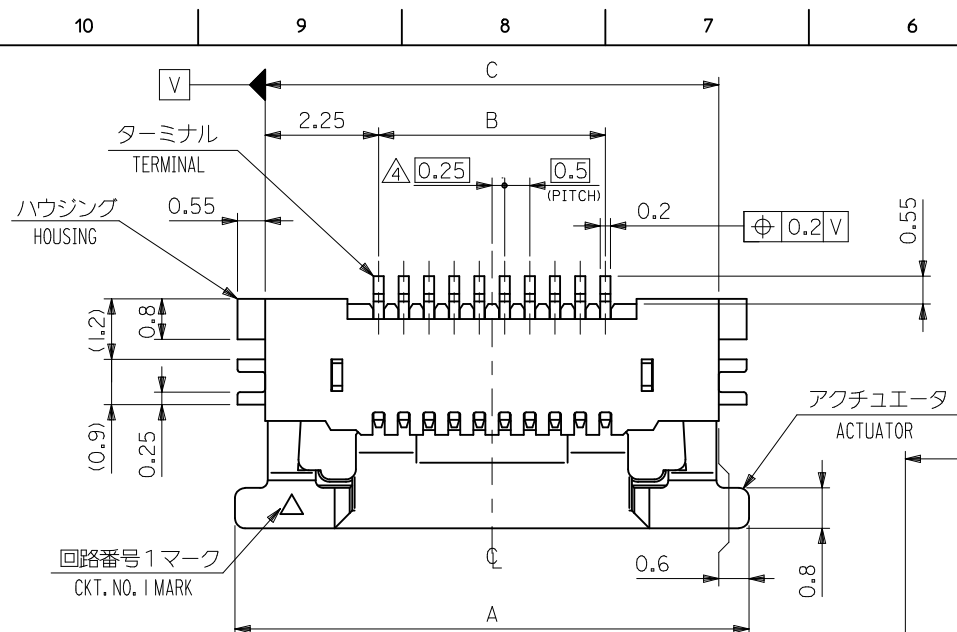
For a multiple part number RoHS Certificate of Compliance, [click here](#)

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

Search Parts in this Series

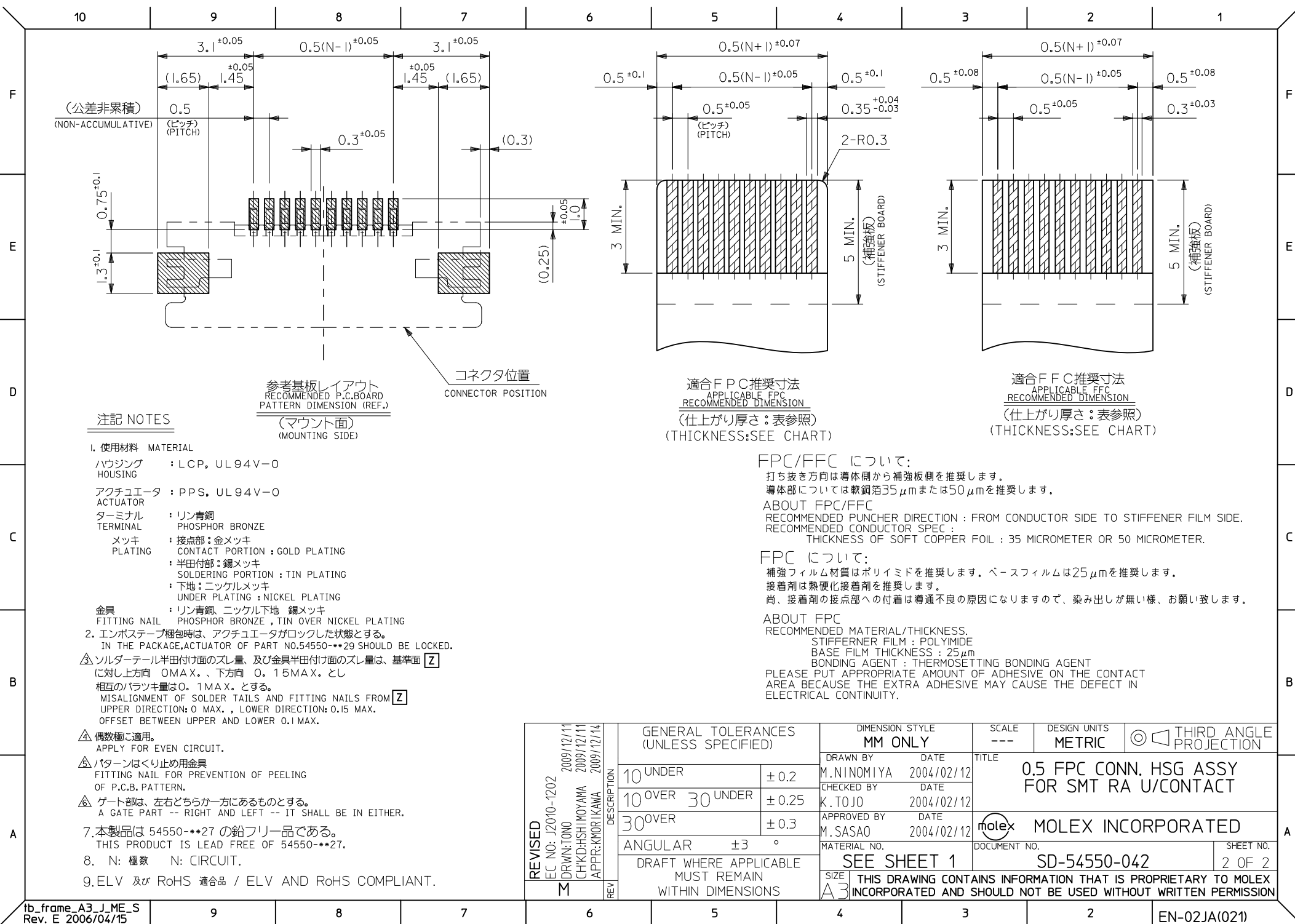
54550Series

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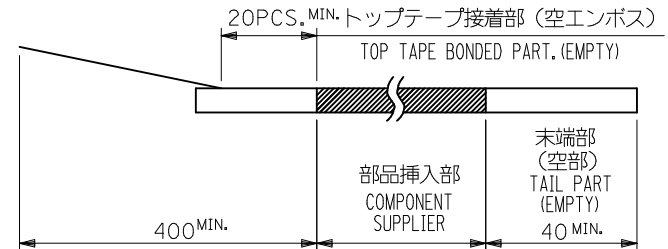
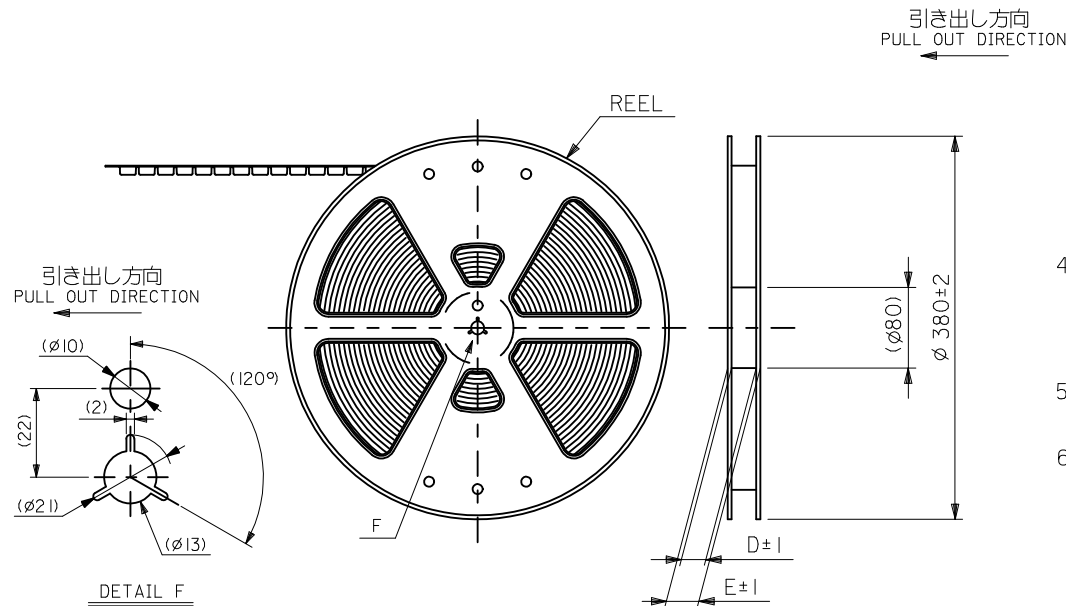
|                      |       |      |      |            |                  |     |
|----------------------|-------|------|------|------------|------------------|-----|
| 0.3 <sup>+0.03</sup> | 13.65 | 17   | 12.5 | 18.2       | 54550-2671       | 26  |
|                      | 12.65 | 16   | 11.5 | 17.2       | 54550-2471       | 24  |
|                      | 11.65 | 15   | 10.5 | 16.2       | 54550-2271       | 22  |
|                      | 11.15 | 14.5 | 10   | 15.7       | 54550-2171       | 21  |
|                      | 10.65 | 14   | 9.5  | 15.2       | 54550-2071       | 20  |
|                      | 10.15 | 13.5 | 9    | 14.7       | 54550-1971       | 19  |
|                      | 9.65  | 13   | 8.5  | 14.2       | 54550-1871       | 18  |
|                      | 9.15  | 12.5 | 8    | 13.7       | 54550-1771       | 17  |
|                      | 8.65  | 12   | 7.5  | 13.2       | 54550-1671       | 16  |
|                      | 7.65  | 11   | 6.5  | 12.2       | 54550-1471       | 14  |
|                      | 7.15  | 10.5 | 6    | 11.7       | 54550-1371       | 13  |
|                      | 6.65  | 10   | 5.5  | 11.2       | 54550-1271       | 12  |
|                      | 6.15  | 9.5  | 5    | 10.7       | 54550-1171       | 11  |
|                      | 5.65  | 9    | 4.5  | 10.2       | 54550-1071       | 10  |
|                      | 5.15  | 8.5  | 4    | 9.7        | 54550-0971       | 9   |
|                      | 4.65  | 8    | 3.5  | 9.2        | 54550-0871       | 8   |
|                      | 4.15  | 7.5  | 3    | 8.7        | 54550-0771       | 7   |
|                      | 3.65  | 7    | 2.5  | 8.2        | 54550-0671       | 6   |
| 3.15                 | 6.5   | 2    | 7.7  | 54550-0571 | 5                |     |
| 2.65                 | 6     | 1.5  | 7.2  | 54550-0471 | 4                |     |
| THICKNESS<br>OF FPC  | D     | C    | B    | A          | EMBOSSED TAPE    | 極数  |
|                      |       |      |      |            | ORDER No. オーダー番号 | Ck+ |

|         |                                                                           |             |                                                            |              |                            |                                                                                                                                  |                                                         |                        |                                                                    |  |           |
|---------|---------------------------------------------------------------------------|-------------|------------------------------------------------------------|--------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------|--------------------------------------------------------------------|--|-----------|
| REVISED | EC NO: J2010-1202<br>DRAWN: TONO<br>CHKD: HSHI MOYAMA<br>APPR: KMORI KAWA | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |              | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>10:1                                           | DESIGN UNITS<br>METRIC | CONNECTION FOR SERIES NO. 54550-***29<br>THIRD ANGLE<br>PROJECTION |  |           |
|         |                                                                           |             | 10 UNDER                                                   | ± 0.2        | DRAWN BY<br>M. NINOMIYA    | DATE<br>2004/02/12                                                                                                               | TITLE<br>0.5 FPC CONN. HSG ASSY<br>FOR SMT RA U/CONTACT |                        |                                                                    |  |           |
|         |                                                                           |             | 10 OVER 30 UNDER                                           | ± 0.25       | CHECKED BY<br>K. TOJO      | DATE<br>2004/02/12                                                                                                               |                                                         |                        |                                                                    |  |           |
|         |                                                                           |             | 30 OVER                                                    | ± 0.3        | APPROVED BY<br>M. SASAO    | DATE<br>2004/02/12                                                                                                               | MOLEX INCORPORATED                                      |                        |                                                                    |  |           |
|         |                                                                           |             | ANGULAR ±3 °                                               | MATERIAL NO. |                            | DOCUMENT NO.                                                                                                                     |                                                         |                        |                                                                    |  | SHEET NO. |
|         |                                                                           |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |              | SEE TABLE                  |                                                                                                                                  | SD-54550-042                                            |                        | 1 OF 2                                                             |  |           |
| REV     | M                                                                         |             |                                                            |              | SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                         |                        |                                                                    |  |           |



# NOTES

- 製品詳細寸法については図面 SD-54550-042 を参照下さい。  
RE DETAILED DIMENSION, SEE SD-54550-042.
- 梱包数量：3000個/リール  
NUMBER OF CONNECTORS : 3000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH

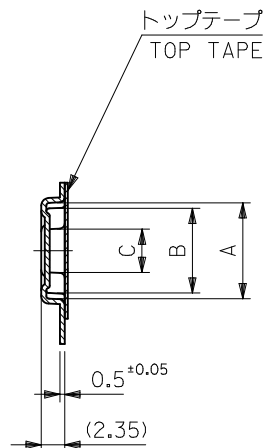


- 材料 (MATERIAL)  
キャリアテープ (CARRIER TAPE) : ポリプロピレン (POLYPROPYLENE)  
トップテープ (TOPTAPE) : PET , PE , PEF  
リール (REEL) : ポリスチレン (P.S) <リサイクル材を含む>  
POLYSTYRENE (P.S) <RECYCLE MATERIAL CONTAINED>
- 本製品は 54550-\*\*9I の鉛フリー品である。  
THIS PRODUCT IS LEAD FREE OF 54550-\*\*9I.
- ELV 及び RoHS 適合品 / ELV AND RoHS COMPLIANT.

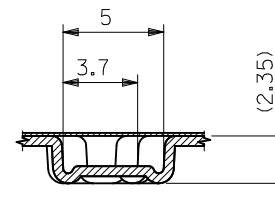
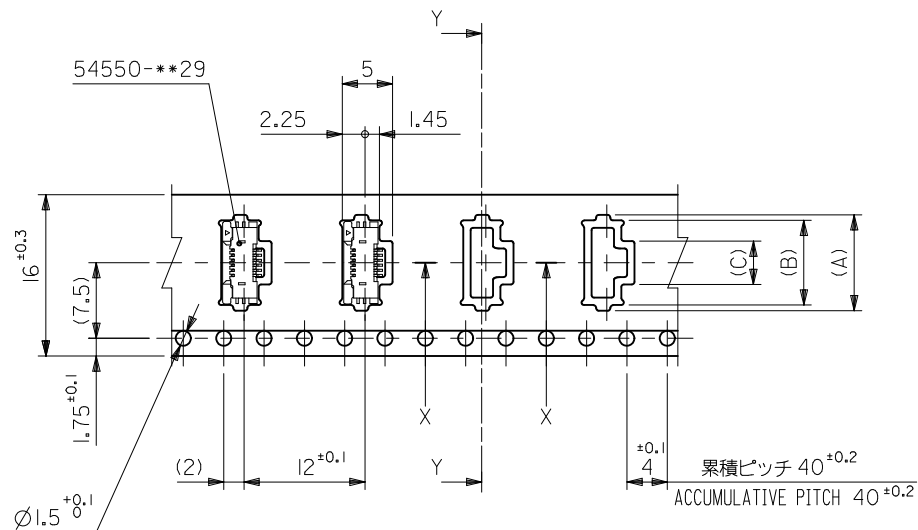
|                                                                                                                      |                                                            |                                                                                                                                  |                  |                            |              |                                                                                                          |                        |                                                                                                                 |  |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------|--------------|----------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--|
| REVISED<br>EC NO: J2010-4202<br>DRWN: TONO 2009/12/11<br>CHKD: FSHI MOYAMA 2009/12/11<br>APPR: KMORI KAWA 2009/12/14 | 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            | M. NINOMIYA                | 2004/02/12   | TITLE<br>EMBSTP PKG FOR 0.5 FPC<br>CONN ZIF UPR CONT                                                     |                        |                                                                                                                 |  |
|                                                                                                                      |                                                            | 10 OVER 30 UNDER                                                                                                                 | ± 0.25           | K. TOJO                    | 2004/02/12   |                                                                                                          |                        |                                                                                                                 |  |
|                                                                                                                      |                                                            | 30 OVER                                                                                                                          | ± 0.3            | M. SASAO                   | 2004/02/12   |  MOLEX INCORPORATED |                        |                                                                                                                 |  |
|                                                                                                                      |                                                            | ANGULAR ±3 °                                                                                                                     |                  | MATERIAL NO.               |              |                                                                                                          |                        |                                                                                                                 |  |
|                                                                                                                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  | SEE SHEET 1 OR 2 |                            | SD-54550-043 |                                                                                                          | 1 OF 3                 |                                                                                                                 |  |
|                                                                                                                      | REV                                                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                  |                            |              |                                                                                                          |                        |                                                                                                                 |  |

10 9 8 7 6 5 4 3 2 1

引き出し方向  
PULL OUT DIRECTION



SECT. Y-Y

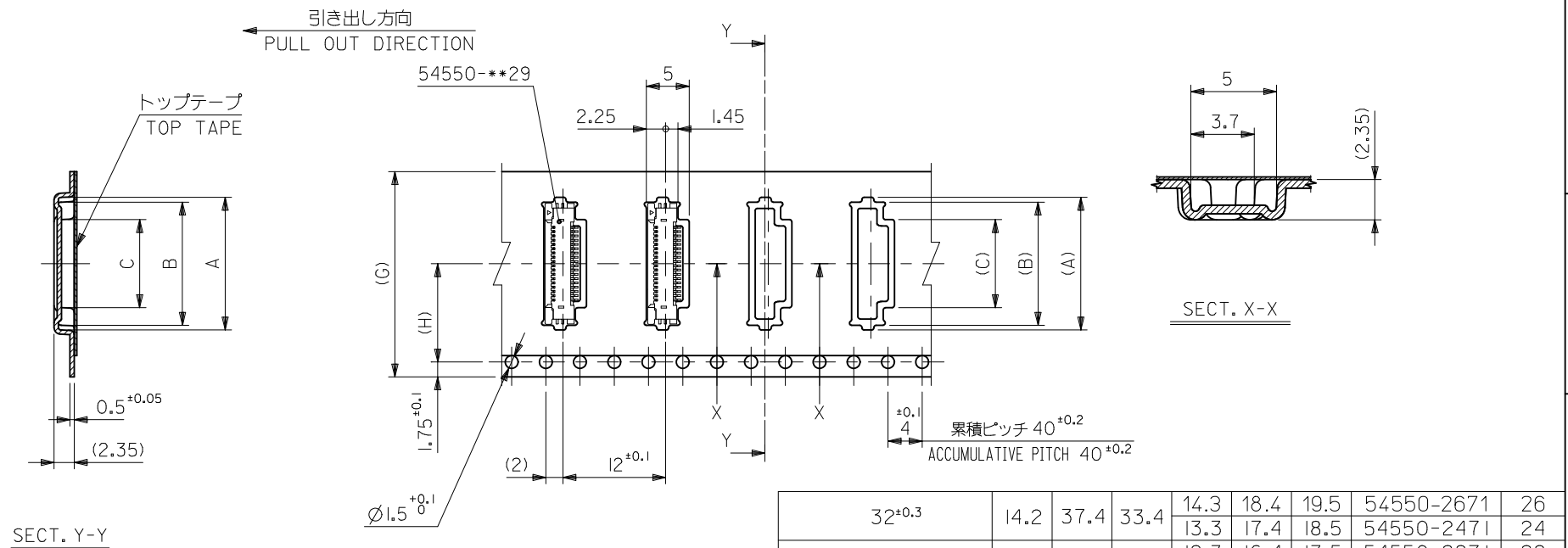


SECT. X-X

16mm幅キャリアテープ  
16mm WIDTH CARRIER TAPE

|                                |      |      |     |     |     |                      |           |
|--------------------------------|------|------|-----|-----|-----|----------------------|-----------|
| 16                             | 21.4 | 17.4 | 4.3 | 8.4 | 9.5 | 54550-0671           | 6         |
|                                |      |      | 3.8 | 7.9 | 9   | 54550-0571           | 5         |
|                                |      |      | 3.3 | 7.4 | 8.5 | 54550-0471           | 4         |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | (C) | (B) | (A) | 製品番号<br>MATERIAL No. | 極数<br>Ckt |

|                                                                                      |             |                                                                                                                                  |        |                            |                    |                                                      |                        |                           |        |  |
|--------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|--------------------|------------------------------------------------------|------------------------|---------------------------|--------|--|
| REVISED<br>EC NO: J2010-1202<br>DRWN: TONO<br>CHKD: SHIMOMIYAMA<br>APPR: KIMORI KAWA | 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  | DRAWN BY<br>M. NINOMIYA    | DATE<br>2004/02/12 | TITLE<br>EMBSTP PKG FOR 0.5 FPC<br>CONN ZIF UPR CONT |                        |                           |        |  |
|                                                                                      |             | 10 OVER 30 UNDER                                                                                                                 | ± 0.25 | CHECKED BY<br>K. TOJO      | DATE<br>2004/02/12 |                                                      |                        |                           |        |  |
|                                                                                      |             | 30 OVER                                                                                                                          | ± 0.3  | APPROVED BY<br>M. SASAO    | DATE<br>2004/02/12 | MOLEX INCORPORATED                                   |                        |                           |        |  |
|                                                                                      |             | ANGULAR ±3 °                                                                                                                     |        | MATERIAL NO.               |                    |                                                      |                        |                           |        |  |
|                                                                                      |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |        | SEE TABLE                  |                    | SD-54550-043                                         |                        |                           | 2 OF 3 |  |
|                                                                                      | REV         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                    |                                                      |                        |                           |        |  |



24, 32mm幅キャリアテープ  
24mm, 32mm WIDTH CARRIER TAPE

|                                  |      |      |      |      |      |      |                      |           |
|----------------------------------|------|------|------|------|------|------|----------------------|-----------|
| 32 <sup>+0.3</sup>               | 14.2 | 37.4 | 33.4 | 14.3 | 18.4 | 19.5 | 54550-2671           | 26        |
|                                  |      |      |      | 13.3 | 17.4 | 18.5 | 54550-2471           | 24        |
|                                  |      |      |      | 12.3 | 16.4 | 17.5 | 54550-2271           | 22        |
|                                  |      |      |      | 11.8 | 15.9 | 17   | 54550-2171           | 21        |
|                                  |      |      |      | 11.3 | 15.4 | 16.5 | 54550-2071           | 20        |
|                                  |      |      |      | 10.8 | 14.9 | 16   | 54550-1971           | 19        |
|                                  |      |      |      | 10.3 | 14.4 | 15.5 | 54550-1871           | 18        |
|                                  |      |      |      | 9.8  | 13.9 | 15   | 54550-1771           | 17        |
|                                  |      |      |      | 9.3  | 13.4 | 14.5 | 54550-1671           | 16        |
|                                  |      |      |      | 8.3  | 12.4 | 13.5 | 54550-1471           | 14        |
|                                  |      |      |      | 7.8  | 11.9 | 13   | 54550-1371           | 13        |
|                                  |      |      |      | 7.3  | 11.4 | 12.5 | 54550-1271           | 12        |
|                                  |      |      |      | 6.8  | 10.9 | 12   | 54550-1171           | 11        |
|                                  |      |      |      | 6.3  | 10.4 | 11.5 | 54550-1071           | 10        |
| 24 <sup>+0.3</sup>               |      |      |      | 5.8  | 9.9  | 11   | 54550-0971           | 9         |
|                                  |      |      |      | 5.3  | 9.4  | 10.5 | 54550-0871           | 8         |
|                                  |      |      |      | 4.8  | 8.9  | 10   | 54550-0771           | 7         |
|                                  |      |      |      |      |      |      |                      |           |
| G キャリアテープ幅<br>CARRIER TAPE WIDTH | H    | E    | D    | (C)  | (B)  | (A)  | 製品番号<br>MATERIAL No. | 極数<br>Ck+ |

REVISED  
EC NO: J2010-1202  
DRWN: TONO 2009/12/11  
CHKD: SHIMOMIYAMA 2009/12/11  
APPR: KMORI KAWA 2009/12/14

DESCRIPTION  
GENERAL TOLERANCES (UNLESS SPECIFIED)  
10 UNDER ±0.2  
10 OVER 30 UNDER ±0.25  
30 OVER ±0.3  
ANGULAR ±3 °  
DRAFT WHERE APPLICABLE  
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY  
DRAWN BY DATE  
M. NINOMIYA 2004/02/12  
CHECKED BY DATE  
K. TOJO 2004/02/12  
APPROVED BY DATE  
M. SASAO 2004/02/12  
MATERIAL NO.  
SEE TABLE  
SIZE  
A3

SCALE  
---  
DESIGN UNITS  
METRIC  
THIRD ANGLE PROJECTION  
TITLE  
EMBSTP PKG FOR 0.5 FPC  
CONN ZIF UPR CONT  
DOCUMENT NO.  
SD-54550-043  
SHEET NO.  
3 OF 3

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