

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0527451897

Status:

Active

Overview:

Description:

0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Top Contact Style, 18 Circuits, Lead-free, Gold (Au) Contact Plating, High Barrier Packaging

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

52745Series

Agency Certification

UL

E29179

General

Product Family

FFC/FPC Connectors

Series

52745

Overview

ffc\_fpc\_smt

Product Name

N/A

Physical

Circuits (Loaded)

18

Color - Resin

Black, White

Contact Position

Top

Durability (mating cycles max)

20

Entry Angle

90° Angle

Flammability

94V-0

Mated Height (in)

0.079 In

Mated Height (mm)

2.00 mm

Material - Metal

Phosphor Bronze

Material - Plating Mating

Gold

Material - Plating Termination

Gold

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

Application Specification

AS-52745-001

Packaging Specification

SPK-52745-001, SPK-52745-002

Product Specification

PS-52745-051, RPS-52745-056, RPS-52745-060, RPS-52745-061, RPS-52745-062, RPS-52745-063, RPS-52745-064, RPS-52745-065, RPS-52745-066, RPS-52745-068, RPS-52745-071, RPS-52745-072, RPS-52745-074, RPS-52745-075, RPS-52745-077

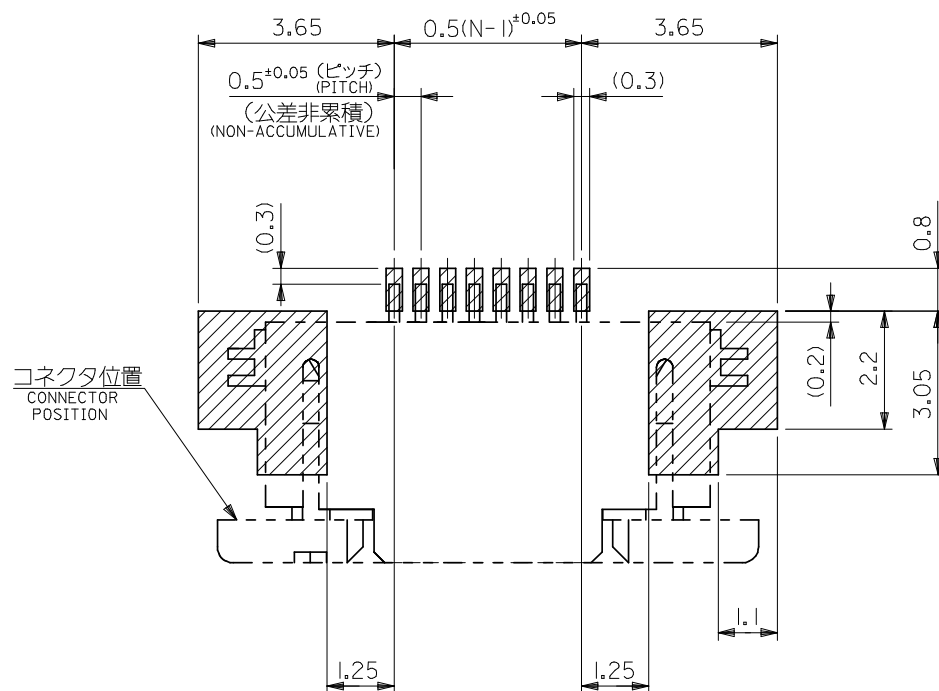
Sales Drawing

SD-52745-050, SD-52745-051

This document was generated on 06/05/2010

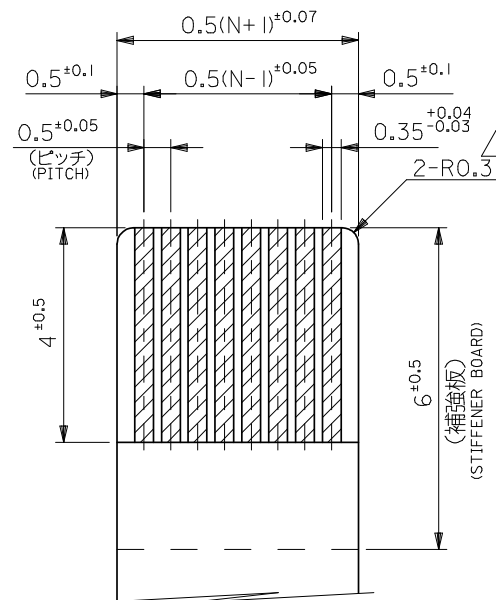
**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**





参考基板レイアウト  
P.C.BOARD PATTERN  
DIMENSION (REF.)

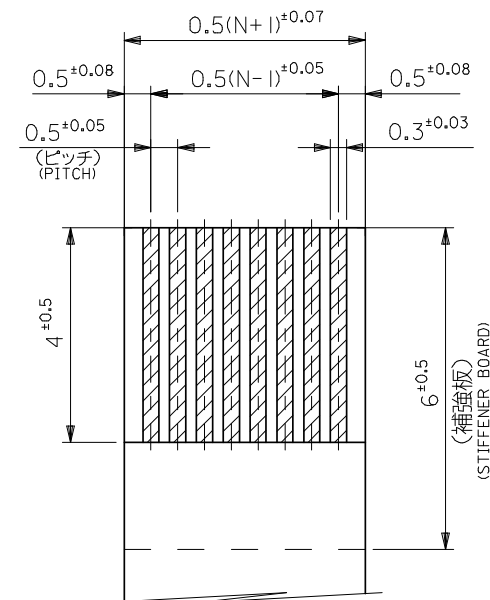
(マウント面)  
(MOUNTING SIDE)



適合FPC推奨寸法

APPLICABLE FPC  
RECOMMENDED DIMENSION

(仕上がり厚さ:  $0.3^{+0.03}$ )  
(THICKNESS:  $0.3^{+0.03}$ )



適合FFC推獎寸法

APPLICABLE FFC  
RECOMMENDED DIMENSION

(仕上がり厚さ:  $0.3^{+0.03}$ )  
(THICKNESS:  $0.3^{+0.03}$ )

F P Cについて：

打抜き方向は導体側から補強板側を推奨致します。

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 :

RECON

D PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.

RECOMMENDED MATERIAL :

STIFFENER FILM : POLYIMIDE

BONDING AGENT : THERMOSETTING BONDING AGENT

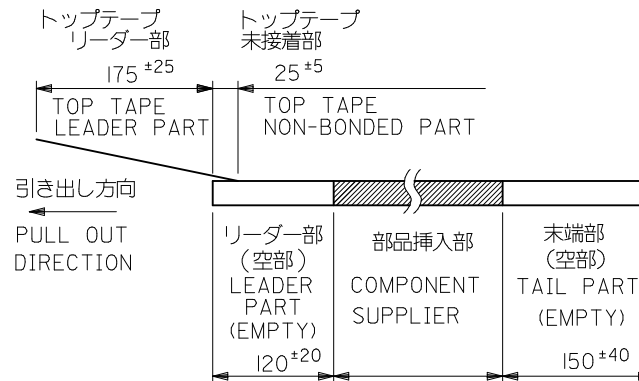
注記 NOTES

△ R0.3は、FPCの導体部にかからないこと。  
R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.

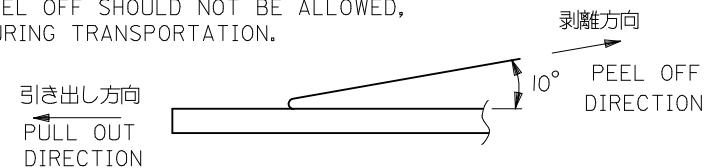
|         |                   |                            |                               |                            |             |                                                            |        |                            |                   |                                                           |                        |                           |                                                                                                                                  |
|---------|-------------------|----------------------------|-------------------------------|----------------------------|-------------|------------------------------------------------------------|--------|----------------------------|-------------------|-----------------------------------------------------------|------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| REVISED | EC NO: J2008-4308 | DRAWN: NABEI<br>2008/06/27 | CHKD: THARIYAMA<br>2008/06/30 | APPR: NUKITA<br>2008/06/30 | 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. NABEI       | DATE<br>'05/02/14 | TITLE<br>0.5 FPC CONN ASSY ZIF<br>UPR CONT<br>-LEAD FREE- |                        |                           |                                                                                                                                  |
|         |                   |                            |                               |                            |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>K. TOJO      | DATE<br>'05/02/14 |                                                           |                        |                           |                                                                                                                                  |
|         |                   |                            |                               |                            |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>N. UKITA    | DATE<br>'05/02/14 |                                                           |                        |                           |                                                                                                                                  |
|         |                   |                            |                               |                            |             | ANGULAR ±3 °                                               |        | MATERIAL NO.               |                   | DOCUMENT NO.                                              | SHEET NO.              |                           |                                                                                                                                  |
|         |                   |                            |                               |                            |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE SHEET 1                |                   | SD-52745-050                                              |                        | 2 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 |

# 注記 NOTES

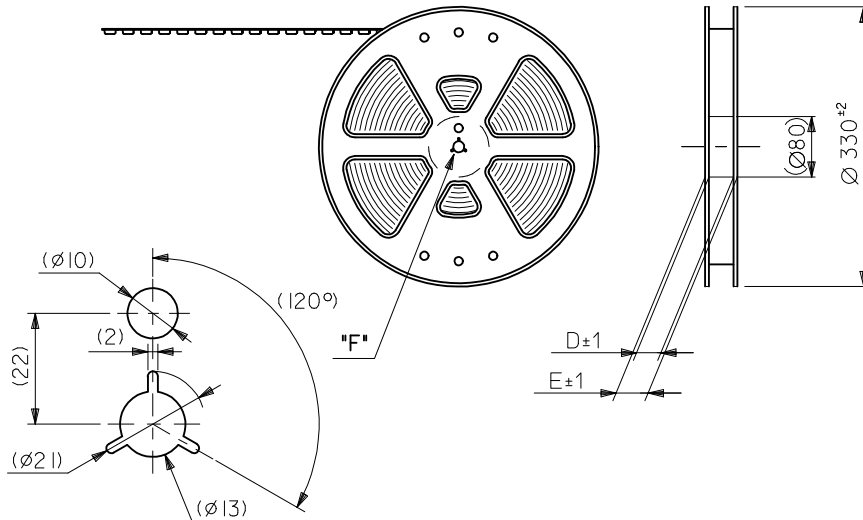
- 製品番号 52745-\*\*-59 の梱包状態はアクチュエータがロックした状態とする。  
詳細寸法については図面 SD-52745-050 を参照下さい。  
IN THE PACKAGE,ACTUATOR OF PART NO.52745-\*\*-59 SHOULD BE LOCKED  
RE DETAILED DIMENSIONS,SEE SD-52745-050.
- 梱包数量：1000個/リール  
NUMBER OF CONNECTORS:1000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- トップテープの剥離強度：(剥離方向は下図参照)  
0.1N～1.3N(10gf～130gf) 尚、本規格値は、出荷時に適用。  
(但し、輸送時に剥離が発生しない事。)  
PEELING OFF FORCE OF TOP TAPE:  
0.1N～1.3N(10gf～130gf)(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)  
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT  
PEEL OFF SHOULD NOT BE ALLOWED,  
DURING TRANSPORTATION.



引き出し方向  
PULL OUT  
DIRECTION



DETAIL "F"

- 材料  
キャリアテープ：ポリプロピレン (PP)  
トップテープ：PET, PE, PEF  
リール：ポリスチレン (PS) <リサイクル材を含む>  
MATERIAL CARRIER TAPE:POLYPROPYLENE  
TOP TAPE:PET,PE,PEF  
REEL:POLYSTYRENE(PS)  
<RECYCLE MATERIAL CONTAINED>

- 本製品は 52745-\*\*-90 の鉛フリー品である。  
THIS PRODUCT IS LEAD FREE OF 52745-\*\*-90

- 本製品は乾燥剤入り、ハイバリア梱包仕様である。  
THIS PRODUCT IS HIGH BARRIER PACKAGE WITH DESICCANT.

|                                                                                                                        |             |                                                            |                                                                                                                                  |                            |                   |                                                             |                        |                           |  |  |
|------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------|-------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO.: J2009-2061<br>2009/05/20<br>DRWN:TKON<br>CHKD:HMATSUMOTO<br>2009/05/21<br>APPR:NUKITA<br>2009/05/21 | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |                                                                                                                                  | DIMENSION STYLE<br>MM ONLY |                   | SCALE<br>---                                                | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                        |             | 10 UNDER                                                   | ± ---                                                                                                                            | DRAWN BY<br>M.NABEI        | DATE<br>'05/02/14 | TITLE<br>0.5 FPC CONN UPR CONT<br>EMBSTP PKG<br>-LEAD FREE- |                        |                           |  |  |
|                                                                                                                        |             | 10 OVER 30 UNDER                                           | ± ---                                                                                                                            | CHECKED BY<br>K.TOJO       | DATE<br>'05/02/14 |                                                             |                        |                           |  |  |
|                                                                                                                        |             | 30 OVER                                                    | ± ---                                                                                                                            | APPROVED BY<br>N.UKITA     | DATE<br>'05/02/14 | MOLEX INCORPORATED                                          |                        |                           |  |  |
|                                                                                                                        |             | ANGULAR ± --- °                                            |                                                                                                                                  | MATERIAL NO.               |                   | DOCUMENT NO.                                                |                        | SHEET NO.                 |  |  |
|                                                                                                                        |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  | SEE TABLE                  |                   | SD-52745-051                                                |                        | 1 OF 3                    |  |  |
|                                                                                                                        | REV         | A                                                          | 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

F

E

D

C

B

A

F

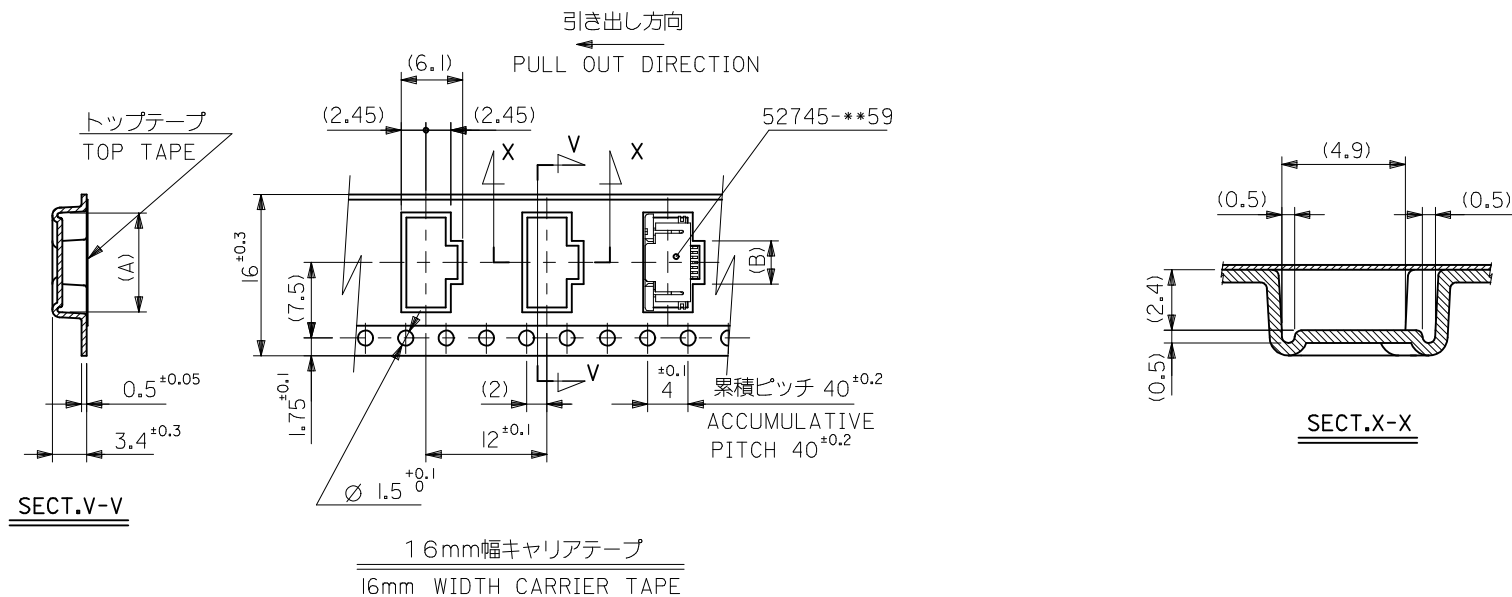
E

D

C

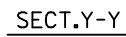
B

A

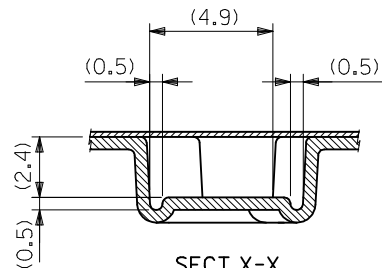


|                                |      |      |     |     |              |               |
|--------------------------------|------|------|-----|-----|--------------|---------------|
| I6                             | 21.4 | 17.4 | 2.8 | 8.4 | 52745-0497   | 4             |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | (B) | (A) | MATERIAL NO. | 極数<br>CIRCUIT |

|                                                                                                                       |                                                            |                                          |                                                                                                                                  |                            |                   |                                                             |                        |                           |  |  |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------|-------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO.: J2009-2061<br>DRWN:TKN<br>CHKD:HMATSUMOTO<br>APPR:NUKITA<br>2009/05/20<br>2009/05/21<br>2009/05/21 | DESCRIPTION                                                | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |                                                                                                                                  | DIMENSION STYLE<br>MM ONLY |                   | SCALE<br>---                                                | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                       |                                                            | 10 UNDER                                 | ± ---                                                                                                                            | DRAWN BY<br>M.NABEI        | DATE<br>'05/02/14 | TITLE<br>0.5 FPC CONN UPR CONT<br>EMBSTP PKG<br>-LEAD FREE- |                        |                           |  |  |
|                                                                                                                       |                                                            | 10 OVER 30 UNDER                         | ± ---                                                                                                                            | CHECKED BY<br>K.TOJO       | DATE<br>'05/02/14 |                                                             |                        |                           |  |  |
|                                                                                                                       |                                                            | 30 OVER                                  | ± ---                                                                                                                            | APPROVED BY<br>N.UKITA     | DATE<br>'05/02/14 | MOLEX INCORPORATED                                          |                        |                           |  |  |
|                                                                                                                       |                                                            | ANGULAR ± --- °                          |                                                                                                                                  | MATERIAL NO.               |                   | DOCUMENT NO.                                                |                        | SHEET NO.                 |  |  |
|                                                                                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE TABLE                                                                                                                        |                            | SD-52745-051      |                                                             | 2 OF 3                 |                           |  |  |
|                                                                                                                       | REV<br>A                                                   |                                          | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                   |                                                             |                        |                           |  |  |



24mm幅キャリアテープ



SECT.X-X

|                                |      |      |            |      |      |              |               |
|--------------------------------|------|------|------------|------|------|--------------|---------------|
| 24                             | 29.4 | 25.4 | 17.4       | 10.8 | 16.4 | 52745-2097   | 20            |
|                                |      |      | 16.9       | 10.3 | 15.9 | ↑ -1997      | 19            |
|                                |      |      | 16.4       | 9.8  | 15.4 | ↑ -1897      | 18            |
|                                |      |      | 15.9       | 9.3  | 14.9 | ↑ -1797      | 17            |
|                                |      |      | 15.4       | 8.8  | 14.4 | ↑ -1697      | 16            |
|                                |      |      | 14.9       | 8.3  | 13.9 | ↑ -1597      | 15            |
|                                |      |      | 14.4       | 7.8  | 13.4 | ↑ -1497      | 14            |
|                                |      |      | 13.9       | 7.3  | 12.9 | ↑ -1397      | 13            |
|                                |      |      | 13.4       | 6.8  | 12.4 | ↑ -1297      | 12            |
|                                |      |      | 12.9       | 6.3  | 11.9 | ↑ -1197      | 11            |
|                                |      |      | 12.4       | 5.8  | 11.4 | ↑ -1097      | 10            |
|                                |      |      | 11.9       | 5.3  | 10.9 | ↑ -0997      | 9             |
|                                |      |      | 11.4       | 4.8  | 10.4 | ↑ -0897      | 8             |
|                                |      |      | 10.9       | 4.3  | 9.9  | ↑ -0797      | 7             |
| 10.4                           | 3.8  | 9.4  | 52745-0697 | 6    |      |              |               |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | (C)        | (B)  | (A)  | MATERIAL NO. | 極数<br>CIRCUIT |

|                                                                              |             |                                                                                                                                  |       |                            |                   |                                                             |                        |                                                                                                                 |  |
|------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------|-------------------|-------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--|
| REVISED<br>EC NO.: J2009-2061<br>DRWN:TKON<br>CHKD:HMATSUMOTO<br>APPR:NUKITA | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                         |       | DIMENSION STYLE<br>MM ONLY |                   | SCALE<br>---                                                | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |  |
|                                                                              |             | 10 UNDER                                                                                                                         | ± --- | DRAWN BY<br>M.NABEI        | DATE<br>'05/02/14 | TITLE<br>0.5 FPC CONN UPR CONT<br>EMBSTP PKG<br>-LEAD FREE- |                        |                                                                                                                 |  |
|                                                                              |             | 10 OVER 30 UNDER                                                                                                                 | ± --- | CHECKED BY<br>K.TOJO       | DATE<br>'05/02/14 |                                                             |                        |                                                                                                                 |  |
|                                                                              |             | 30 OVER                                                                                                                          | ± --- | APPROVED BY<br>N.UKITA     | DATE<br>'05/02/14 | MOLEX INCORPORATED                                          |                        |                                                                                                                 |  |
|                                                                              |             | ANGULAR ± --- °                                                                                                                  |       | MATERIAL NO.               |                   | DOCUMENT NO.                                                |                        | SHEET NO.                                                                                                       |  |
|                                                                              |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |       | SEE TABLE                  |                   | SD-52745-051                                                |                        | 3 OF 3                                                                                                          |  |
|                                                                              | REV<br>A    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                            |                   |                                                             |                        |                                                                                                                 |  |