

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0490450011

Status:

Active

Description:

0.50mm (.020") Pitch Board-to-Board Shutter I/O Receptacle, SMT, Shielded, Right Angle, 24 Circuits, Black/Natural

Documents:

3D Model

Drawing (PDF)

Product Specification PS-49045-001 (PDF)

Product Specification PS-49045-002 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

I/O Connectors

Series

49045

Application

Board-to-Board

Comments

Coplanarity of Soldertails 0.10mm max

Component Type

Receptacle

Product Name

N/A

Type

N/A

Physical

Boot Color

N/A

Circuits (Loaded)

24

Circuits (maximum)

24

Color - Resin

Black

Gender

Receptacle

Keying to Mating Part

None

Lock to Mating Part

Yes

Material - Metal

Stainless Steel

Material - Plating Mating

Gold

Material - Plating Termination

Gold

Material - Resin

High Temperature Thermoplastic

Number of Rows

1

Orientation

Right Angle

PCB Locator

Yes

PCB Retention

Yes

Packaging Type

Embossed Tape on Reel

Panel Mount

No

Pitch - Mating Interface (in)

0.020 In

Pitch - Mating Interface (mm)

0.50 mm

Pitch - Term. Interface (in)

0.020 In

Pitch - Term. Interface (mm)

0.50 mm

Plating min: Mating (µin)

8

Plating min: Mating (µm)

0.2

Plating min: Termination (µin)

2

Plating min: Termination (µm)

0.05

Polarized to Mating Part

Yes

Polarized to PCB

Yes

Ports

1

Surface Mount Compatible (SMC)

No

Temperature Range - Operating

-20°C to +65°C

Termination Interface: Style

Surface Mount

Waterproof / Dustproof

No

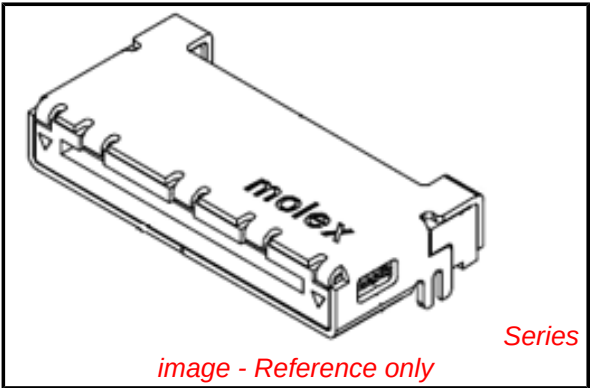
Wire Size AWG

N/A

Electrical

Current - Maximum per Contact

0.5A



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed



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

49045Series

Mates With

24P I/O Standard Plug

|                    |                 |
|--------------------|-----------------|
| Grounding to Panel | N/A             |
| Shield Type        | Full Shield     |
| Shielded           | Yes             |
| Voltage - Maximum  | 30V AC (RMS)/DC |

**Material Info**

**Reference - Drawing Numbers**

|                       |                                           |
|-----------------------|-------------------------------------------|
| Product Specification | PS-49045-001, PS-49045-002, RPS-49045-002 |
| Sales Drawing         | SD-49045-001                              |

This document was generated on 04/15/2010

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

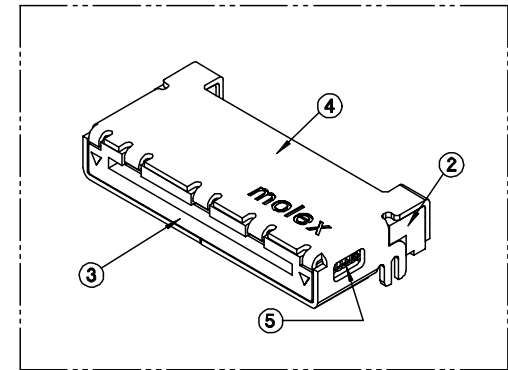
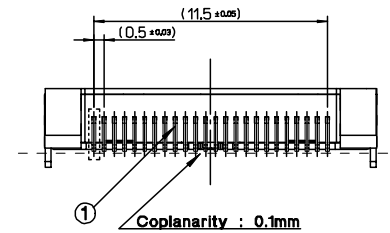
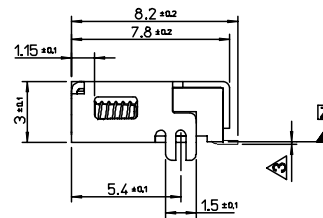
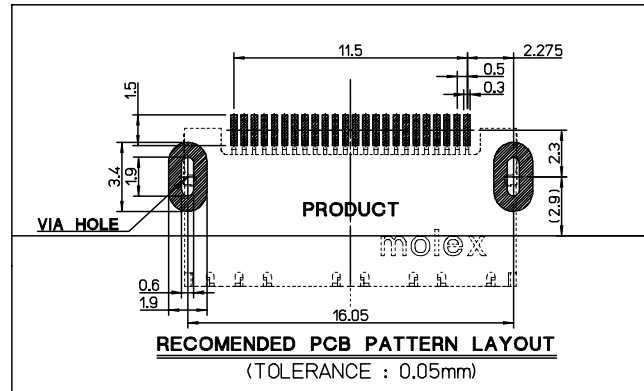
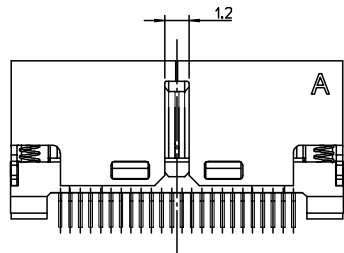
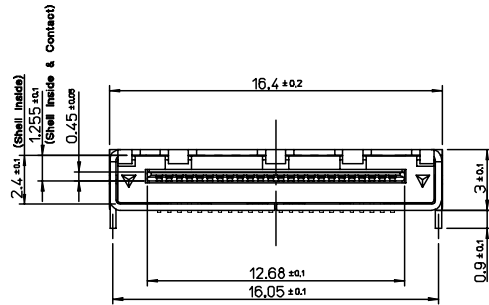
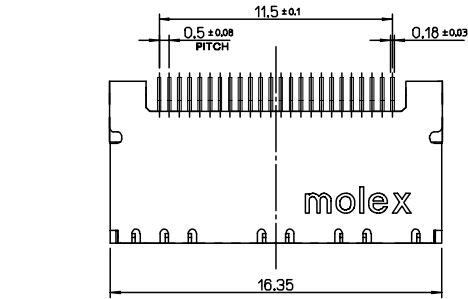
DO NOT SCALE DRAWING  
DIMENSION IN METRIC

PROJECT NO.

SIMILAR ITEM

DWG. NO.

SD-49045-001



ISO-METRIC VIEW

TABLE 1

|        |              |                 |
|--------|--------------|-----------------|
| SILVER | 490450016    | 49045-0016      |
| BLACK  | 490450011    | 49045-0011      |
| COLOR  | MATERIAL NO. | ENGINEERING NO. |

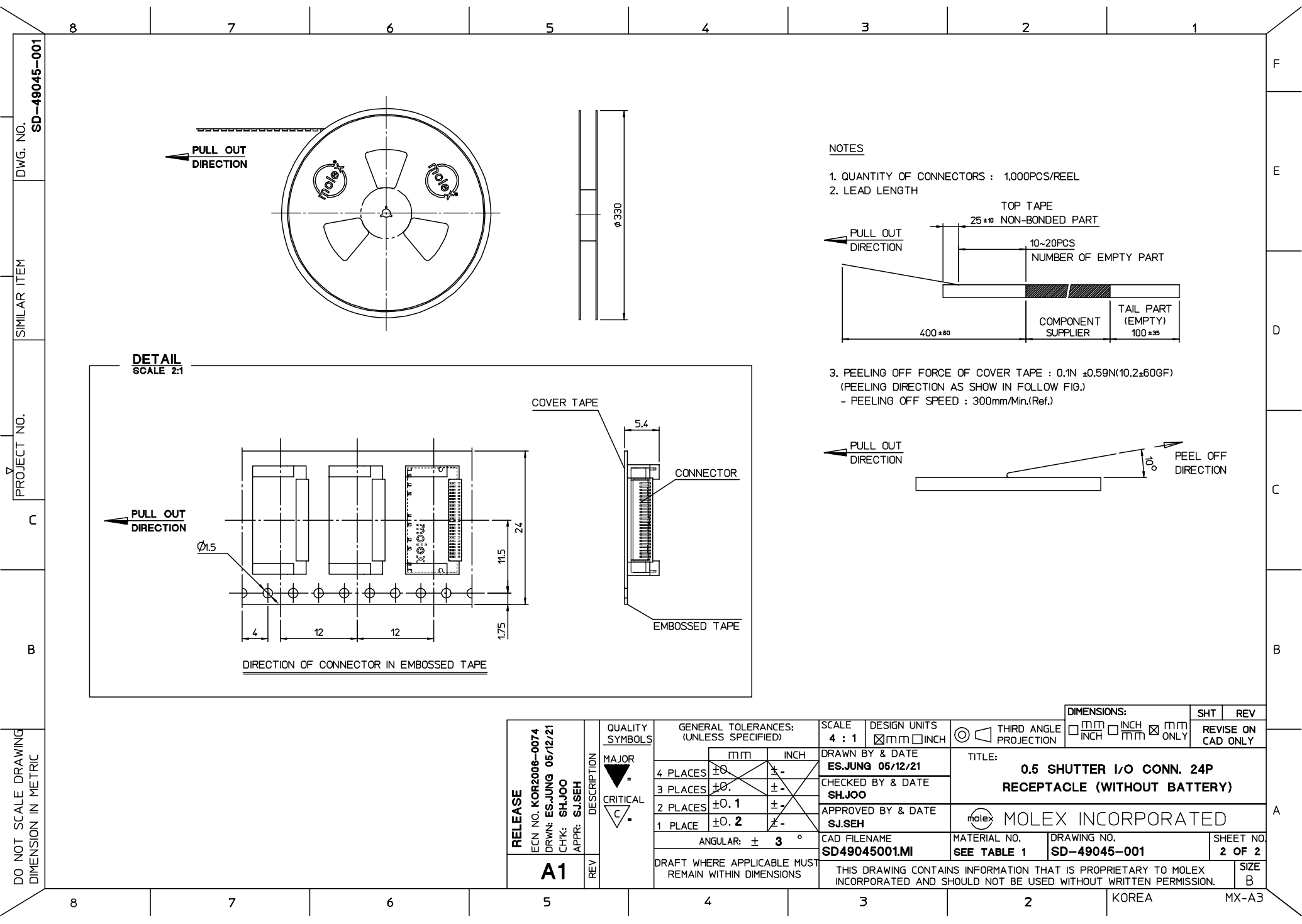
TABLE 2

|     |                  |                    |                 |
|-----|------------------|--------------------|-----------------|
| ⑤   | SPRING           | STAINLESS STEEL    | NONE            |
| ④   | METAL SHELL      | STAINLESS STEEL    | NICKEL          |
| ③   | SHUTTER          | POLY AMIDE UL94V-0 | BLACK / NATURAL |
| ②   | HOUSING          | POLY AMIDE UL94V-0 | BLACK COLOR     |
| ①   | CONTACT TERMINAL | COPPER ALLOY       | SELECTIVE GOLD  |
| NO. | DESCRIPTION      | MATERIAL           | FINISH          |

NOTES

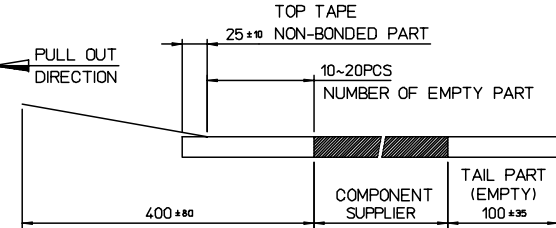
1. MATERIALS: SEE TABLE 2
2. FINISHES: SEE TABLE 2
3. ALIGNMENT OF SOLDER TAILS FROM Z: UPPER DIRECTION 0.05 MAX. LOWER DIRECTION 0.1 MAX.
4. COPLANARITY OF SOLDER TAILS : 0.1mm MAX.
5. PRODUCT SPECIFICATION : PS-49045-001
6. PACKAGING SPECIFICATION : PK-49045-001

|                                                         |                                                                                  |             |                                                      |                                                                                                                                                                                                                                                                |                             |                                                                                      |                           |                                                                                                       |                       |    |          |     |    |          |      |    |         |      |    |                                      |                                                                         |  |  |  |
|---------------------------------------------------------|----------------------------------------------------------------------------------|-------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------|-----------------------|----|----------|-----|----|----------|------|----|---------|------|----|--------------------------------------|-------------------------------------------------------------------------|--|--|--|
| REVISED                                                 | ECN NO. KOR2007-0007<br>DRWN: E.S.JUNG 06/07/24<br>CHK: S.H.JOO<br>APPR: S.J.SEH | DESCRIPTION | QUALITY SYMBOLS<br><br>MAJOR<br>=<br>CRITICAL<br>C = | GENERAL TOLERANCES:<br>(UNLESS SPECIFIED)                                                                                                                                                                                                                      | SCALE<br>4 : 1              | DESIGN UNITS<br><input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH | THIRD ANGLE<br>PROJECTION | <input type="checkbox"/> mm <input type="checkbox"/> INCH <input checked="" type="checkbox"/> mm ONLY | REVISE ON<br>CAD ONLY |    |          |     |    |          |      |    |         |      |    |                                      |                                                                         |  |  |  |
|                                                         |                                                                                  |             |                                                      | <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>±0.</td><td>±.</td></tr><tr><td>3 PLACES</td><td>±0.</td><td>±.</td></tr><tr><td>2 PLACES</td><td>±0.1</td><td>±.</td></tr><tr><td>1 PLACE</td><td>±0.2</td><td>±.</td></tr></table> |                             | mm                                                                                   | INCH                      | 4 PLACES                                                                                              | ±0.                   | ±. | 3 PLACES | ±0. | ±. | 2 PLACES | ±0.1 | ±. | 1 PLACE | ±0.2 | ±. | DRAWN BY & DATE<br>E.S.JUNG 05/07/19 | TITLE:<br><br>0.5 SHUTTER I/O CONN. 24P<br>RECEPTACLE (WITHOUT BATTERY) |  |  |  |
|                                                         |                                                                                  |             |                                                      |                                                                                                                                                                                                                                                                | mm                          | INCH                                                                                 |                           |                                                                                                       |                       |    |          |     |    |          |      |    |         |      |    |                                      |                                                                         |  |  |  |
|                                                         |                                                                                  |             |                                                      | 4 PLACES                                                                                                                                                                                                                                                       | ±0.                         | ±.                                                                                   |                           |                                                                                                       |                       |    |          |     |    |          |      |    |         |      |    |                                      |                                                                         |  |  |  |
|                                                         |                                                                                  |             |                                                      | 3 PLACES                                                                                                                                                                                                                                                       | ±0.                         | ±.                                                                                   |                           |                                                                                                       |                       |    |          |     |    |          |      |    |         |      |    |                                      |                                                                         |  |  |  |
| 2 PLACES                                                | ±0.1                                                                             | ±.          |                                                      |                                                                                                                                                                                                                                                                |                             |                                                                                      |                           |                                                                                                       |                       |    |          |     |    |          |      |    |         |      |    |                                      |                                                                         |  |  |  |
| 1 PLACE                                                 | ±0.2                                                                             | ±.          |                                                      |                                                                                                                                                                                                                                                                |                             |                                                                                      |                           |                                                                                                       |                       |    |          |     |    |          |      |    |         |      |    |                                      |                                                                         |  |  |  |
| CHECKED BY & DATE<br>S.H.JOO                            | APPROVED BY & DATE<br>S.J.SEH                                                    |             |                                                      |                                                                                                                                                                                                                                                                |                             |                                                                                      |                           |                                                                                                       |                       |    |          |     |    |          |      |    |         |      |    |                                      |                                                                         |  |  |  |
| ANGULAR: ± 3 °                                          |                                                                                  |             |                                                      | CAD FILENAME<br>SD49045001.MI                                                                                                                                                                                                                                  | MATERIAL NO.<br>SEE TABLE 1 | DRAWING NO.<br>SD-49045-001                                                          | SHEET NO.<br>1 OF 2       |                                                                                                       |                       |    |          |     |    |          |      |    |         |      |    |                                      |                                                                         |  |  |  |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS |                                                                                  |             |                                                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.                                                                                                                              |                             |                                                                                      |                           | SIZE<br>B                                                                                             |                       |    |          |     |    |          |      |    |         |      |    |                                      |                                                                         |  |  |  |



NOTES

1. QUANTITY OF CONNECTORS : 1,000PCS/REEL  
2. LEAD LENGTH



3. PEELING OFF FORCE OF COVER TAPE : 0.1N ±0.59N(10.2±60GF)  
(PEELING DIRECTION AS SHOW IN FOLLOW FIG.)  
- PEELING OFF SPEED : 300mm/Min.(Ref.)



DO NOT SCALE DRAWING  
DIMENSION IN METRIC

B

C

PROJECT NO.

SIMILAR ITEM

DWG. NO.

SD-49045-001

RELEASE  
ECN NO. KOR2008-0074  
DRWN: ES.JUNG 05/12/21  
CHK: SH.JOO  
APPR: SJ.SEH  
A1

QUALITY SYMBOLS  
MAJOR  
CRITICAL  
C  
REV

| GENERAL TOLERANCES:<br>(UNLESS SPECIFIED)               |      |        |
|---------------------------------------------------------|------|--------|
|                                                         | mm   | INCH   |
| 4 PLACES                                                | ±0.1 | ±0.004 |
| 3 PLACES                                                | ±0.1 | ±0.004 |
| 2 PLACES                                                | ±0.1 | ±0.004 |
| 1 PLACE                                                 | ±0.2 | ±0.008 |
| ANGULAR: ± 3 °                                          |      |        |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS |      |        |

SCALE  
4 : 1  
DESIGN UNITS  
mm INCH  
DRAWN BY & DATE  
ES.JUNG 05/12/21  
CHECKED BY & DATE  
SH.JOO  
APPROVED BY & DATE  
SJ.SEH  
CAD FILENAME  
SD49045001.MI

TITLE:  
0.5 SHUTTER I/O CONN. 24P  
RECEPTACLE (WITHOUT BATTERY)  
MOLEX INCORPORATED  
MATERIAL NO.  
SEE TABLE 1  
DRAWING NO.  
SD-49045-001  
SHEET NO.  
2 OF 2  
KOREA  
MX-A3

A

B

C

D

E

F