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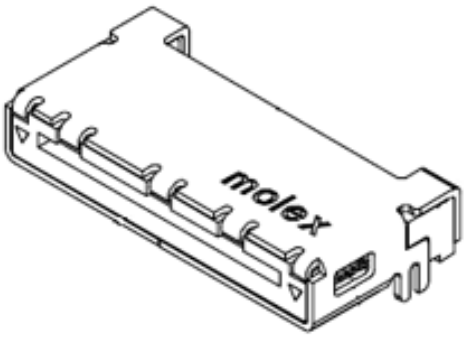
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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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



Series image - Reference only

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

China RoHS

Need more information on product environmental compliance?

Email 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

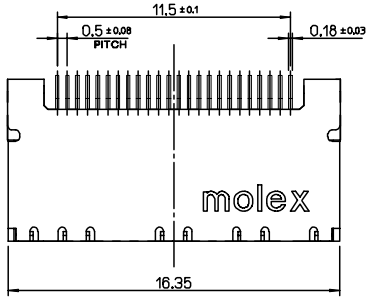
Material Info

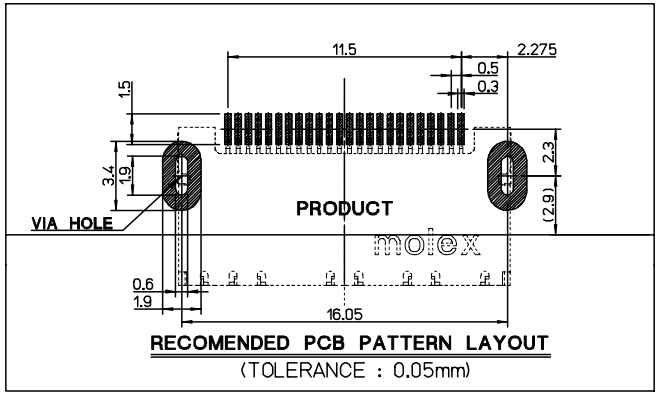
Reference - Drawing Numbers

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

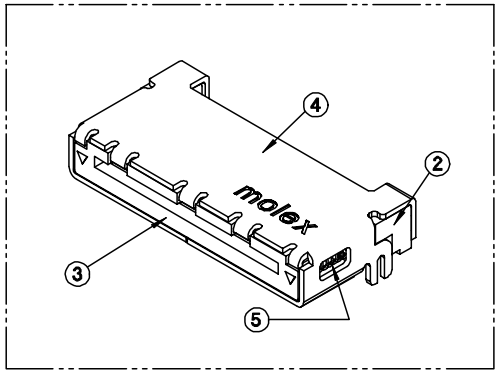
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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

DWG. NO. SD-49045-001
SIMILAR ITEM
PROJECT NO.
DO NOT SCALE DRAWING
DIMENSION IN METRIC

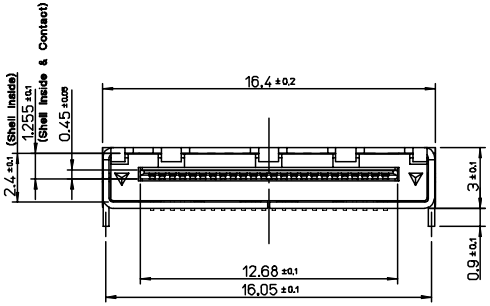


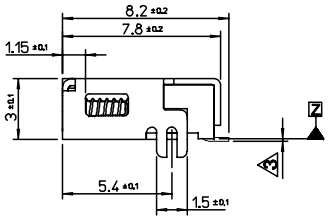


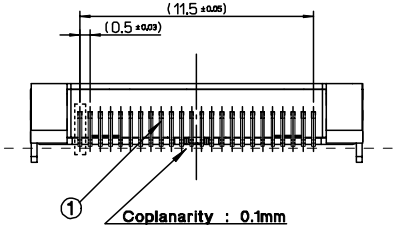
RECOMENDED PCB PATTERN LAYOUT
(TOLERANCE : 0.05mm)



ISO-METRIC VIEW







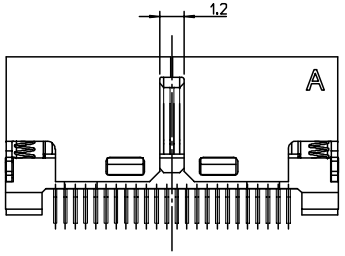


TABLE 1

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 SOLDERTAILS : 0.1mm MAX.
5. PRODUCT SPECIFICATION : PS-49045-001
6. PACKAGING SPECIFICATION : PK-49045-001

REVISED
ECN NO. KOR2007-0007
DRWN: E.S.JUNG 06/07/24
CHK: S.H.JOO
APPR: S.J.SEH
DESCRIPTION
C
REV

QUALITY SYMBOLS
MAJOR ▼ =
CRITICAL ▽ C -

GENERAL TOLERANCES: (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±0.	± -
3 PLACES	±0.	± -
2 PLACES	±0.1	± -
1 PLACE	±0.2	± -
ANGULAR: ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE 4 : 1 | DESIGN UNITS ☒mm ☐INCH | THIRD ANGLE PROJECTION | DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY | SHT | REV | REVISE ON CAD ONLY

DRAWN BY & DATE: E.S.JUNG 05/07/19
CHECKED BY & DATE: S.H.JOO
APPROVED BY & DATE: S.J.SEH
CAD FILENAME: SD49045001.MI

TITLE:
0.5 SHUTTER I/O CONN. 24P
RECEPTACLE (WITHOUT BATTERY)

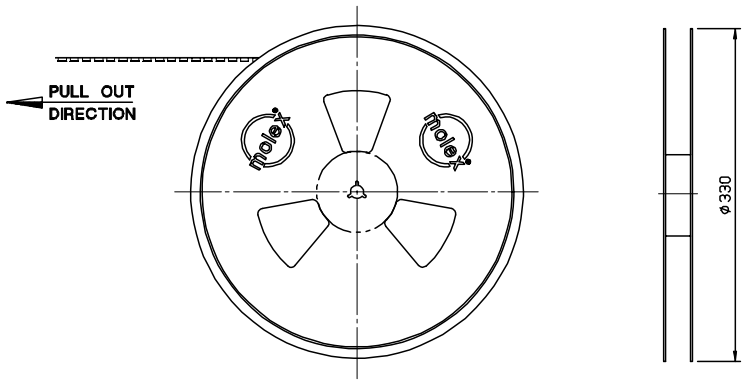
MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE 1
DRAWING NO.: SD-49045-001
SHEET NO.: 1 OF 2

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

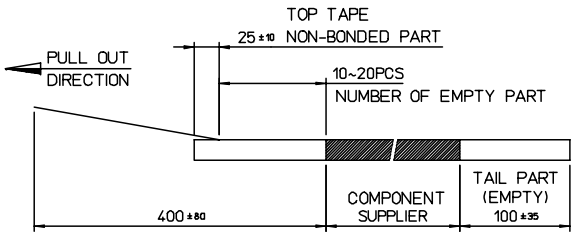
SIZE B

KOREA MX-A3



NOTES

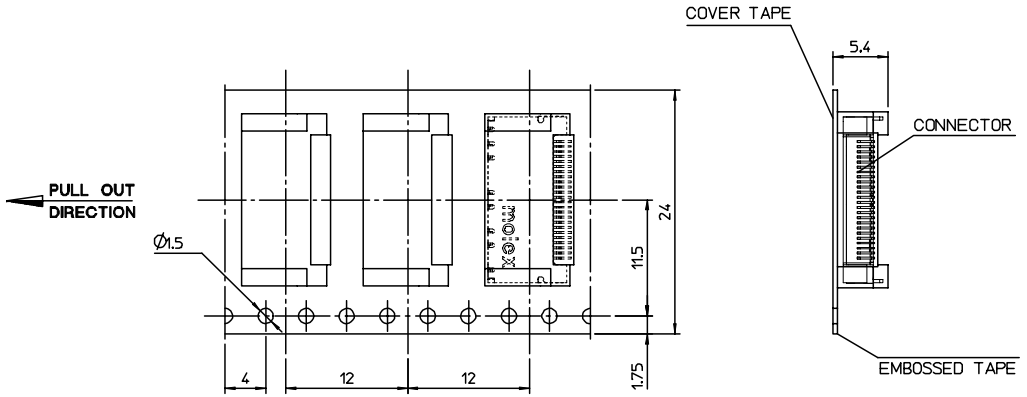
1. QUANTITY OF CONNECTORS : 1,000PCS/REEL
2. LEAD LENGTH



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.)



DETAIL
SCALE 2:1



DIRECTION OF CONNECTOR IN EMBOSSED TAPE

DO NOT SCALE DRAWING
DIMENSION IN METRIC

DWG. NO. SD-49045-001
SIMILAR ITEM
PROJECT NO.

RELEASE
ECN NO. KOR2006-0074
DRWN: ES.JUNG 05/12/21
CHK: SH.JOO
APPR: SJ.SEH
DESCRIPTION

A1
REV

QUALITY SYMBOLS
MAJOR
CRITICAL

GENERAL TOLERANCES: (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±0.	± -
3 PLACES	±0.	± -
2 PLACES	±0.1	± -
1 PLACE	±0.2	± -

ANGULAR: ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE 4 : 1
DESIGN UNITS ☒mm ☐INCH
THIRD ANGLE PROJECTION
DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY
SHT REV
REVISE ON CAD ONLY

DRAWN BY & DATE: ES.JUNG 05/12/21
CHECKED BY & DATE: SH.JOO
APPROVED BY & DATE: SJ.SEH
CAD FILENAME: SD49045001.MI
MATERIAL NO.: SEE TABLE 1
DRAWING NO.: SD-49045-001
SHEET NO.: 2 OF 2

TITLE:
0.5 SHUTTER I/O CONN. 24P
RECEPTACLE (WITHOUT BATTERY)

MOLEX INCORPORATED

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SIZE B

KOREA MX-A3