

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0747030317

Status:

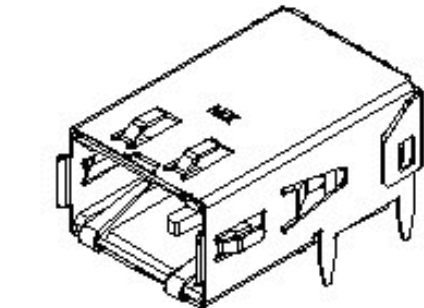
Active

Overview:

hssdc2

Description:

1.27mm (.050") Pitch HSSDC2 Receptacle, Shielded, Right Angle, Single Row, 7 Circuits



Series

image - Reference only

Documents:

- [3D Model](#)
- [Packaging Specification \(PDF\)](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-74703-001 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

General

|                |                |
|----------------|----------------|
| Product Family | I/O Connectors |
| Series         | 74703          |
| Application    | Wire-to-Board  |
| Component Type | Receptacle     |
| Overview       | hssdc2         |
| Product Name   | HSSDC2         |
| Type           | N/A            |

Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Boot Color                     | N/A                            |
| Circuits (Loaded)              | 7                              |
| Circuits (maximum)             | 7                              |
| Color - Resin                  | Natural                        |
| Durability (mating cycles max) | 250                            |
| Flammability                   | 94V-0                          |
| Gender                         | Receptacle                     |
| Keying to Mating Part          | Yes                            |
| Lock to Mating Part            | Yes                            |
| Material - Metal               | High Performance Alloy (HPA)   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 1                              |
| Orientation                    | Right Angle                    |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.061 In, 0.092 In             |
| PCB Thickness Recommended (mm) | 1.57 mm, 2.36 mm               |
| Packaging Type                 | Tray                           |
| Panel Mount                    | No                             |
| Pitch - Mating Interface (in)  | 0.050 In                       |
| Pitch - Mating Interface (mm)  | 1.27 mm                        |
| Pitch - Term. Interface (in)   | 0.050 In                       |
| Pitch - Term. Interface (mm)   | 1.27 mm                        |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| Ports                          | 1                              |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -10°C to +60°C                 |
| Termination Interface: Style   | Surface Mount                  |

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

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  
74703Series

Mates With  
73939

|                                                |                           |
|------------------------------------------------|---------------------------|
| Waterproof / Dustproof                         | No                        |
| Wire Size AWG                                  | N/A                       |
| <b>Electrical</b>                              |                           |
| Current - Maximum per Contact                  | 0.5A                      |
| Grounding to Panel                             | Press-Fit                 |
| Shield Type                                    | Full Shield               |
| Shielded                                       | Yes                       |
| Voltage - Maximum                              | 30V DC                    |
| <b>Solder Process Data</b>                     |                           |
| Duration at Max. Process Temperature (seconds) | 60                        |
| Lead-free Process Capability                   | Reflow Capable (SMT only) |
| Max. Cycles at Max. Process Temperature        | 1                         |
| Process Temperature max. C                     | 260                       |
| <b>Material Info</b>                           |                           |
| <b>Reference - Drawing Numbers</b>             |                           |
| Packaging Specification                        | PK-74703-002              |
| Product Specification                          | PS-74703-001              |
| Sales Drawing                                  | SD-74703-001              |

This document was generated on 05/27/2010

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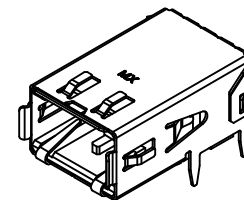
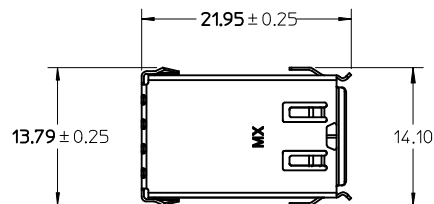
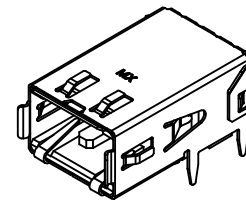
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74703

## NOTES:

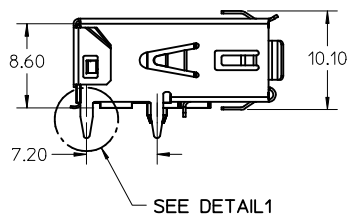
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER, UL94 V-0, NATURAL  
TERMINAL - COPPER NICKEL SILICON ALLOY  
SHIELD - BRASS ALLOY
2. FINISHES:  
TERMINAL: 1.27 MICROMETERS MINIMUM SELECT GOLD AND  
3.81 MICROMETERS MINIMUM SELECT TIN OVER  
NICKEL UNDERPLATE OVERALL.  
SHELL: 3.00 MICROMETERS MINIMUM TIN OVER  
NICKEL UNDERPLATE OVERALL.
3. PACKAGE TAPE AND REEL PER PK-74703-001 AND  
PACKAGE TRAYS PER PK-74703-002.
4. PART CONFORMS TO SPECIFICATION PS-74703-001.
5. DROP-IN AND PRESS FIT ASSEMBLIES REQUIRED TO  
BE SOLDERED TO BOARD.

INFINIBAND KEYING  
WITH DROP-IN SHIELDFIBRE CHANNEL KEYING  
WITH DROP-IN SHIELD

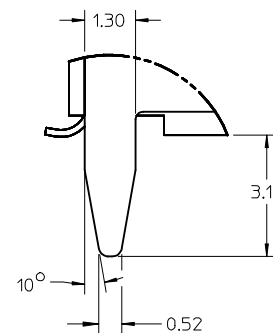
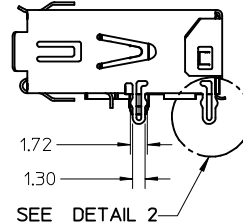
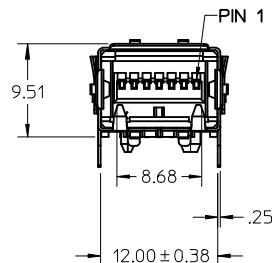
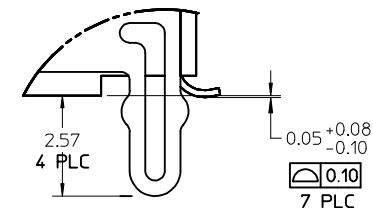
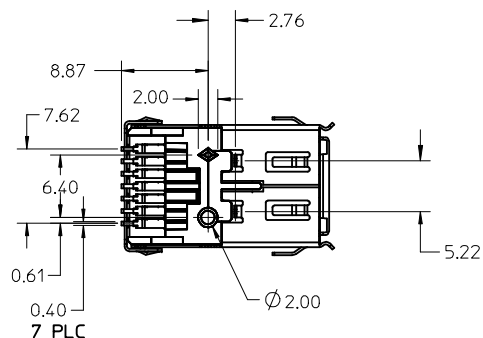
## NOTE FOR LEAD FREE CONVERSION:

THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT  
TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF  
DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL  
MAY CONTAIN PRODUCT WITH LEAD.

## DROP-IN SHIELD



## PRESS-FIT SHIELD

DETAIL 1  
SCALE 8:1DETAIL 2  
SCALE 8:1

|                                                                                                                               |                                   |             |                                                            |  |                                                                                                                                  |              |                                                         |                        |                           |  |  |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------|------------------------|---------------------------|--|--|
| MODIFY TOLERANCE<br>EC NO: UCP2009-117<br>DRAWN BY: IBARRA 2008/10/29<br>CHKD: DMORGAN 2008/10/29<br>APPR: SMILLER 2008/10/30 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION STYLE<br>MM ONLY                                                                                                       |              | SCALE<br>2:1                                            | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                               |                                   |             |                                                            |  | DRAWN BY                                                                                                                         | DATE         | TITLE<br>SALES DRAWING<br>HSSDC2 RECEPTACLE<br>ASSEMBLY |                        |                           |  |  |
|                                                                                                                               |                                   |             |                                                            |  | CHECKED BY                                                                                                                       | DATE         |                                                         |                        |                           |  |  |
|                                                                                                                               |                                   |             |                                                            |  | APPROVED BY                                                                                                                      | DATE         | MOLEX MOLEX INCORPORATED                                |                        |                           |  |  |
|                                                                                                                               |                                   |             |                                                            |  | MATERIAL NO.                                                                                                                     | DOCUMENT NO. |                                                         |                        |                           |  |  |
|                                                                                                                               |                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | SEE TABLE                                                                                                                        |              | SD-74703-001                                            |                        |                           |  |  |
|                                                                                                                               |                                   |             |                                                            |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                                                         |                        |                           |  |  |
|                                                                                                                               |                                   |             |                                                            |  |                                                                                                                                  |              |                                                         |                        |                           |  |  |
|                                                                                                                               |                                   |             |                                                            |  |                                                                                                                                  |              |                                                         |                        |                           |  |  |
|                                                                                                                               |                                   |             |                                                            |  |                                                                                                                                  |              |                                                         |                        |                           |  |  |
|                                                                                                                               |                                   |             |                                                            |  |                                                                                                                                  |              |                                                         |                        |                           |  |  |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

SIZE  
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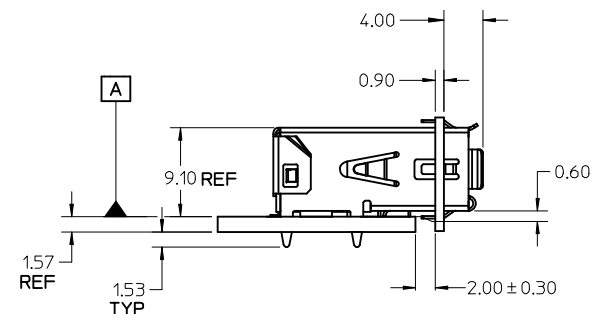
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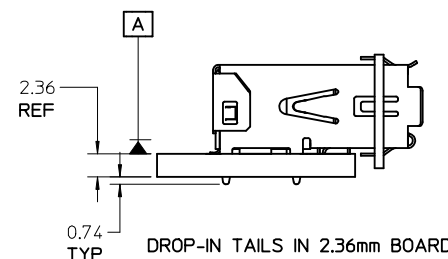


1.57 REF

1.00 TYP

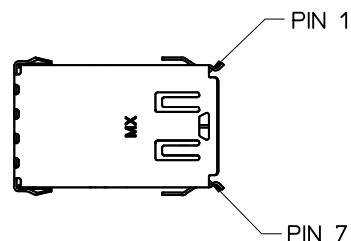
PRESS-FIT TAILS IN 157mm BOARD

PRESS-FIT TAILS IN 1.57mm BOARD



### DROP-IN TAILS IN 2.36mm BOARD

THE ENTIRE AREA OF THE CONNECTOR FOOTPRINT TO BE CONSIDERED THE KEEP OUT AREA (FOR COMPONENTS). THIS AREA IS INDICATED BY THE DASHED LINE.



| PIN NO. | INFINIBAND | FIBRE CHANNEL |
|---------|------------|---------------|
| 1       | G          | G             |
| 2       | R+         | R-            |
| 3       | R-         | R+            |
| 4       | G          | G             |
| 5       | T-         | T+            |
| 6       | T+         | T-            |
| 7       | G          | G             |

| REV | DESCRIPTION                                                                                                           |
|-----|-----------------------------------------------------------------------------------------------------------------------|
| 1   | SEE SHEET 1<br>EC NO: UCP2009-1117<br>DRWN:MSIBARRA 2008/10/29<br>CHK'D:DMORGAN 2008/10/29<br>APPR:SMILLER 2008/10/30 |

QUALITY SYMBOLS

 = 0

 = 0

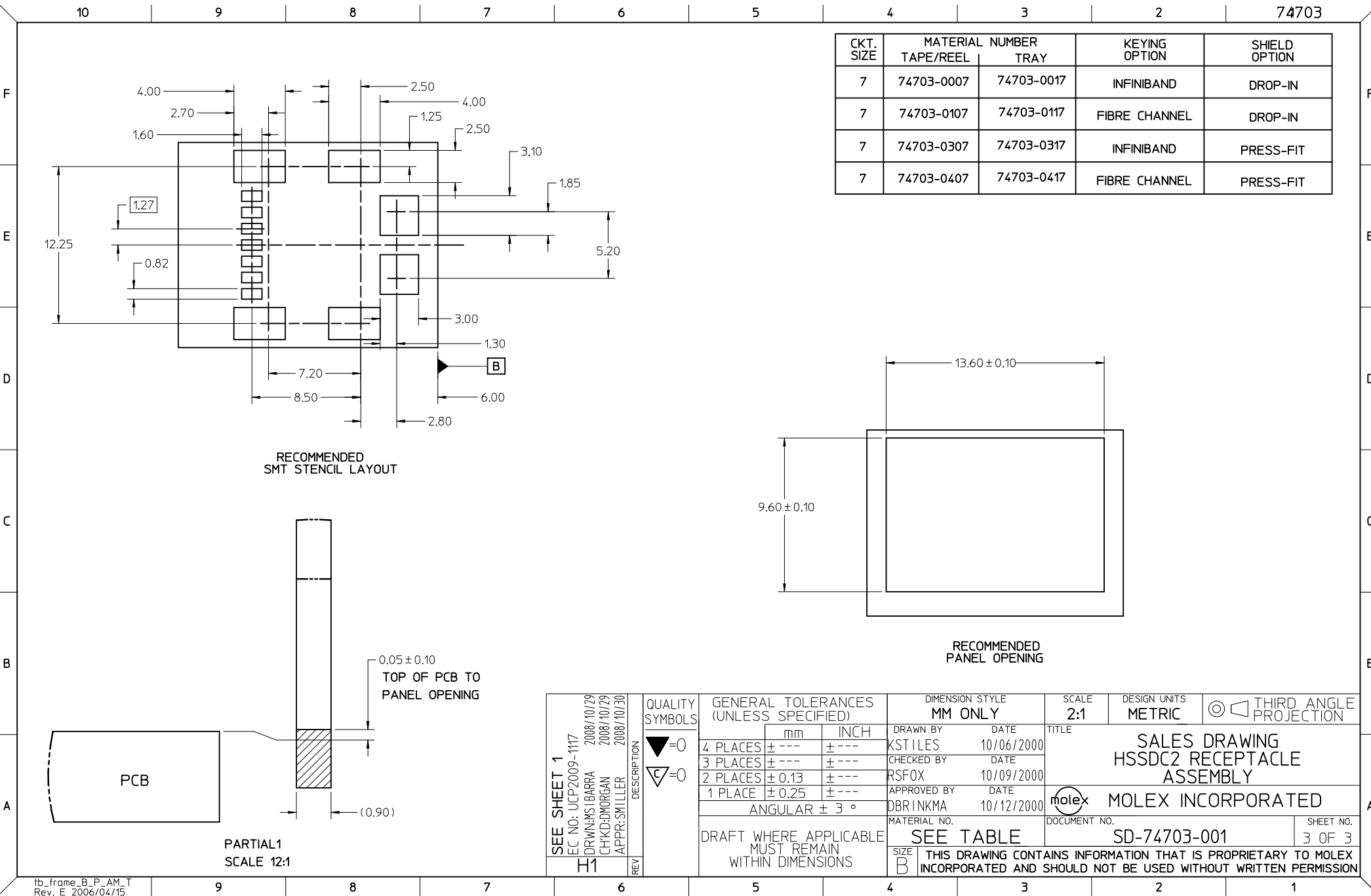
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        |        |
|------------------------------------------------------------|--------|--------|
|                                                            | mm     | INCH   |
| 4 PLACES                                                   | ± .--- | ± .--- |
| 3 PLACES                                                   | ± .--- | ± .--- |
| 2 PLACES                                                   | ± 0.13 | ± .--- |
| 1 PLACE                                                    | ± 0.25 | ± .--- |
| ANGULAR ± 3 °                                              |        |        |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |        |

|      |                                        |            |
|------|----------------------------------------|------------|
|      | DIMENSION STYLE                        |            |
|      | MM ONLY                                |            |
|      | DRAWN BY                               | DATE       |
|      | KSTILES                                | 10/06/2000 |
|      | CHECKED BY                             | DATE       |
|      | RSFOX                                  | 10/09/2000 |
|      | APPROVED BY                            | DATE       |
|      | DBRINKMA                               | 10/12/2000 |
|      | MATERIAL NO.                           |            |
|      | SEE TABLE                              |            |
| SIZE | THIS DRAWING CONTAINS INCORPORATED AND |            |

|  |                                                                                       |
|--|---------------------------------------------------------------------------------------|
|  | SCALE<br><b>2:1</b>                                                                   |
|  | TITLE                                                                                 |
|  |  |
|  | DOCUMENT                                                                              |

DESIGN UNITS  
METRIC  
SALES  
HSSDC2  
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SD-74703  
MATION THAT  
OT BE USED W

|                                                                                                                 |                     |
|-----------------------------------------------------------------------------------------------------------------|---------------------|
|  THIRD ANGLE<br>PROJECTION |                     |
| S DRAWING<br>RECEPTACLE<br>SEMBLY                                                                               |                     |
| INCORPORATED                                                                                                    |                     |
| 3-001                                                                                                           | SHEET NO.<br>2 OF 3 |
| IS PROPRIETARY TO MOLEX<br>WITHOUT WRITTEN PERMISSION                                                           |                     |



SEE SHEET 1

EC NO: UCP2009-1117

DRWN:MSIBARRA 2008/10/29

CHKD:DMORGAN 2008/10/29

APPR:SMILLER 2008/10/30

H1

REV

DESCRIPTION

QUALITY SYMBOLS

▽=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

|               | mm     | INCH  |
|---------------|--------|-------|
| 4 PLACES      | ± ---  | ± --- |
| 3 PLACES      | ± ---  | ± --- |
| 2 PLACES      | ± 0.13 | ± --- |
| 1 PLACE       | ± 0.25 | ± --- |
| ANGULAR ± 3 ° |        |       |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY

KSTILES

CHECKED BY

RSFOX

APPROVED BY

DBRINKMA

MATERIAL NO.

SEE TABLE

SIZE

B

DATE

10/06/2000

DATE

10/09/2000

DATE

10/12/2000

SCALE

2:1

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

SALES DRAWING  
HSSDC2 RECEPTACLE  
ASSEMBLY

MOLEX INCORPORATED

DOCUMENT NO.

SD-74703-001

SHEET NO.

3 OF 3

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