

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0670689010

Status:

Active

Description:

Universal Serial Bus (USB), Shielded I/O, Type B Receptacle, Right Angle with Straight Tabs, Color White, Gold(Au) Flash Plating, Tray Pack, Lead Free

Documents:

3D Model

Drawing (PDF)

Product Specification PS-67998-0000 (PDF)

RoHS Certificate of Compliance (PDF)

| General                        |                |
|--------------------------------|----------------|
| Product Family                 | I/O Connectors |
| Series                         | 67068          |
| Application                    | Wire-to-Board  |
| Comments                       | Single         |
| Component Type                 | Receptacle     |
| Product Name                   | USB            |
| Type                           | B              |
| Physical                       |                |
| Boot Color                     | N/A            |
| Circuits (Loaded)              | 4              |
| Circuits (maximum)             | 4              |
| Gender                         | Receptacle     |
| Lock to Mating Part            | Yes            |
| Material - Plating Mating      | Gold           |
| Material - Plating Termination | Tin            |
| Number of Rows                 | 2              |
| Orientation                    | Right Angle    |
| PC Tail Length (in)            | 0.110 In       |
| PC Tail Length (mm)            | 2.80 mm        |
| PCB Locator                    | Yes            |
| PCB Retention                  | Yes            |
| PCB Thickness Recommended (in) | 0.063 In       |
| PCB Thickness Recommended (mm) | 1.60 mm        |
| Packaging Type                 | Tray           |
| Panel Mount                    | No             |
| Pitch - Mating Interface (in)  | 0.098 In       |
| Pitch - Mating Interface (mm)  | 2.50 mm        |
| Pitch - Term. Interface (in)   | 0.098 In       |
| Pitch - Term. Interface (mm)   | 2.50 mm        |
| Plating min: Termination (µin) | 75             |
| Plating min: Termination (µm)  | 1.90           |
| Polarized to Mating Part       | Yes            |
| Polarized to PCB               | Yes            |
| Ports                          | 1              |
| Surface Mount Compatible (SMC) | Yes            |
| Temperature Range - Operating  | 0°C to +50°C   |
| Termination Interface: Style   | Through Hole   |
| Waterproof / Dustproof         | No             |
| Wire Size AWG                  | N/A            |

| Electrical                    |             |
|-------------------------------|-------------|
| Current - Maximum per Contact | 1.5A        |
| Shield Type                   | Full Shield |
| Shielded                      | Yes         |
| Voltage - Maximum             | 30V (RMS)   |

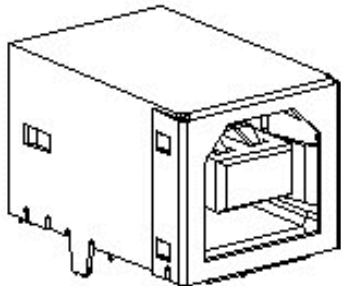


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not 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

67068Series

Mates With

USB Type B Plug

**Material Info**

**Reference - Drawing Numbers**

|                       |               |
|-----------------------|---------------|
| Product Specification | PS-67998-0000 |
| Sales Drawing         | SD-67068-003  |

This document was generated on 03/31/2010

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10 9 8 7 6 5 4 3 2 1

NOTES :

1. MATERIAL :

HOUSING : (a) HIGH TEMP. NYLON ,GLASS FIBER FILLED,UL94V-O, COLOR: BLACK,  
(b) POLYESTER , GLASS FIBER FILLED,UL94V-O, COLOR: WHITE,

TERMINAL : PHOSPHOR BRONZE  
METAL SHELL : COPPER ALLOY

2. PLATING :

TERMINAL :

CONTACT AREA : (a) GOLD FLASH.

(b) GLOD (Au), THICKNESS = 30 MICROINCH MINIMUM.  
/0.76 MICROMETER MINIMUM.

SOLDER TAIL :

PURE TIN(Sn) THICKNESS= 75 MICROINCH MINIMUM .  
/1.9 MICROMETER MINIMUM.

UNDER PLATE : NICKEL (Ni), THICKNESS= 50 MICROINCH MINIMUM.

METAL SHELL :

PURE TIN(Sn) , THICKNESS= 50 MICROINCH MINIMUM.  
/1.27 MICROMETER MINIMUM.

UNDER PLATE : NICKEL (Ni) , THICKNESS= 50 MICROINCH MINIMUM.

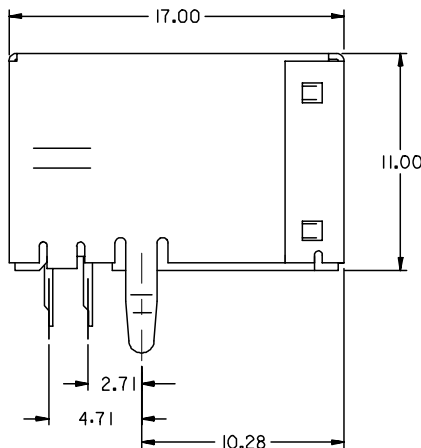
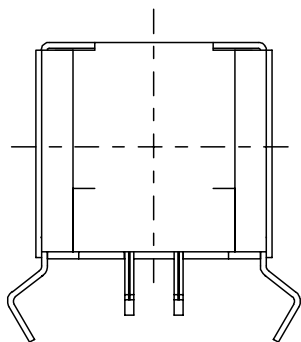
/1.27 MICROMETER MINIMUM.

3 DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER

RECOMMENDED PCB THICKNESS : 1.60±0.05

4 PRODUCT SPECIFICATION : REFER TO PS-67998-0000

MOLEX ID OF MFG PLANT CODE



PART NUMBER LEGEND:

67068-

8 : BLACK HOUSING  
9 : WHITE HOUSING

0 : TRAY PACKAGING  
1 : TUBE PACKAGING

0

0 : GOLD FLASH  
1 : 0.76 MICROMETER/30  
MICROINCH GOLD

KINK TYPE BOARD LOCK

|                                                                                                                  |             |
|------------------------------------------------------------------------------------------------------------------|-------------|
| NEW RELEASE<br>EC NO: SH2005-0142<br>DRWN: DAVID HU 2004/11/5<br>CHKD:HARVEY 2004/11/25<br>APPR:YTYAP 2004/11/25 | DESCRIPTION |
|                                                                                                                  | REV         |
|                                                                                                                  | A           |
|                                                                                                                  | REV         |

|                 |
|-----------------|
| QUALITY SYMBOLS |
| ▽=0             |
| ▽=0             |

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

| DIMENSION STYLE<br>MM ONLY |            |
|----------------------------|------------|
| DRAWN BY                   | DATE       |
| DAVID HU                   | 2004/11/05 |
| CHECKED BY                 | DATE       |
| HARVEY                     | 2004/11/05 |
| APPROVED BY                | DATE       |

MATERIAL NO.

SEE NOTES

SCALE  
4:1

TITLE

USB B TYPE CONNECTOR  
KINK TYPE BOARD LOCK  
(LEAD-FREE)

MOLEX

DOCUMENT NO.

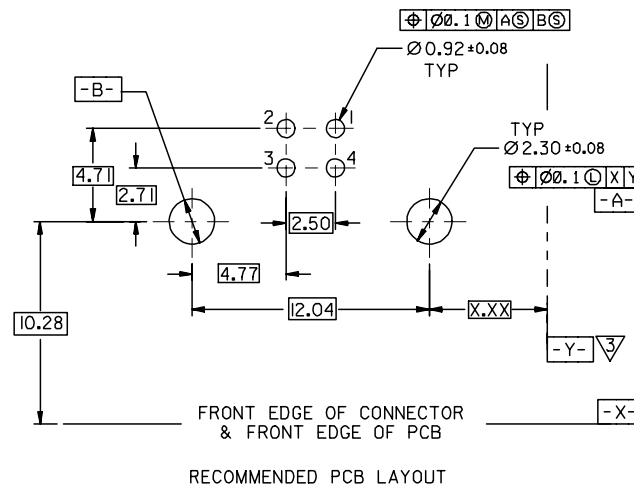
SD-67068-003

SHEET NO.  
1 OF 4

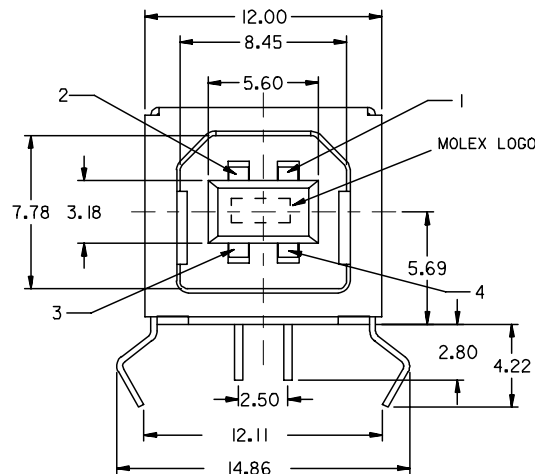
THIRD ANGLE  
PROJECTION

MOLEX INCORPORATED

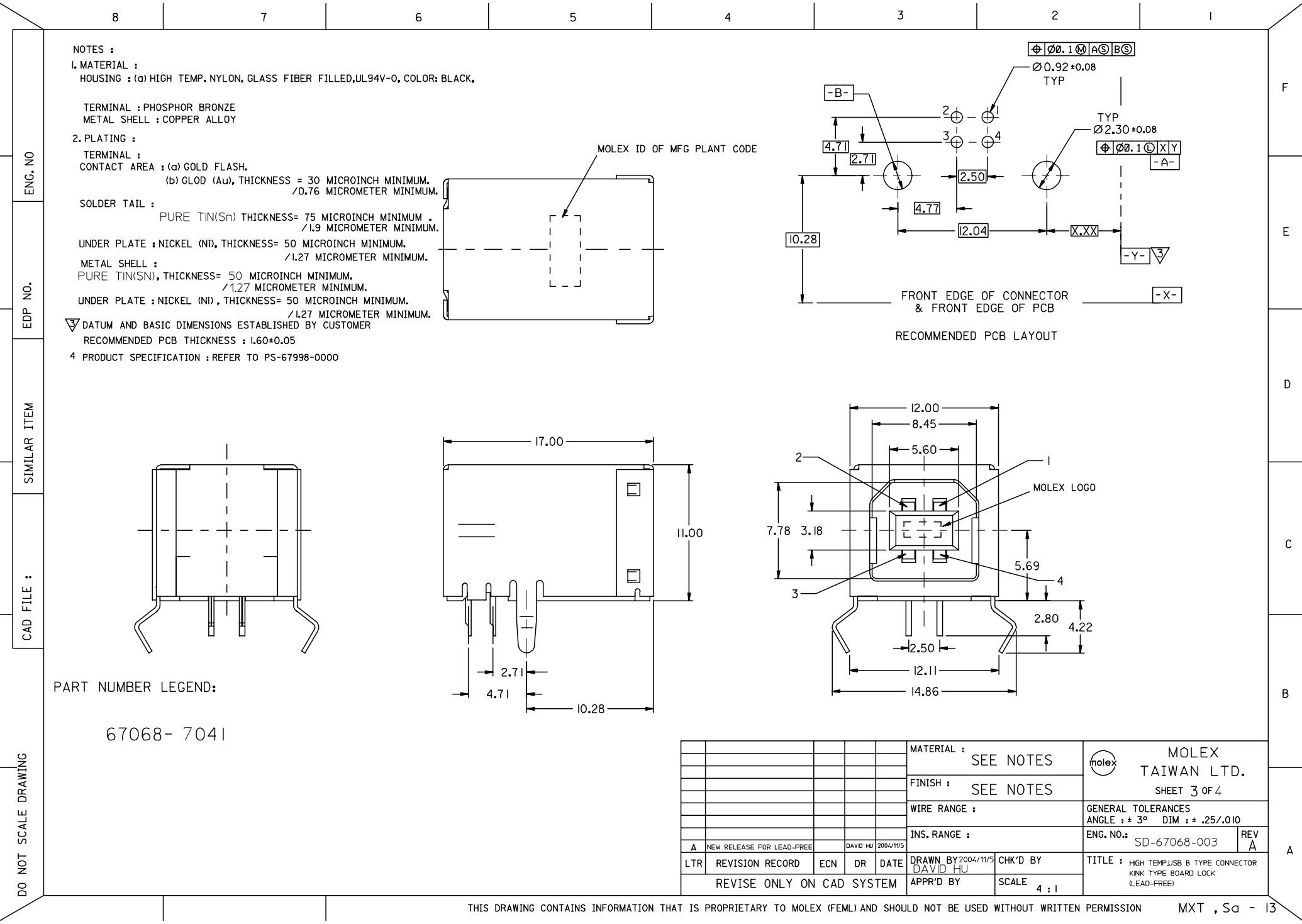
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



RECOMMENDED PCB LAYOUT







NOTES :  
1. MATERIAL :  
HOUSING : (a) HIGH TEMP. NYLON, GLASS FIBER FILLED, UL94V-0, COLOR: BLACK,

TERMINAL : PHOSPHOR BRONZE  
METAL SHELL : COPPER ALLOY

2. PLATING :  
TERMINAL :  
CONTACT AREA : (a) GOLD FLASH.  
(b) GLOD (Au), THICKNESS = 30 MICROINCH MINIMUM.  
/0.76 MICROMETER MINIMUM.

SOLDER TAIL :  
PURE TIN(Sn) THICKNESS= 75 MICROINCH MINIMUM .  
/1.9 MICROMETER MINIMUM.  
UNDER PLATE : NICKEL (Ni), THICKNESS= 50 MICROINCH MINIMUM.  
/1.27 MICROMETER MINIMUM.

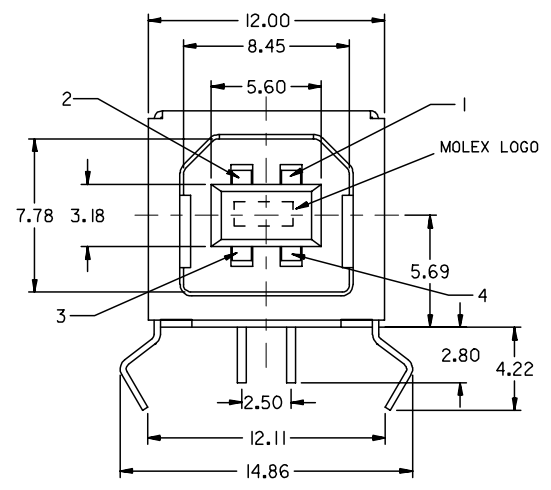
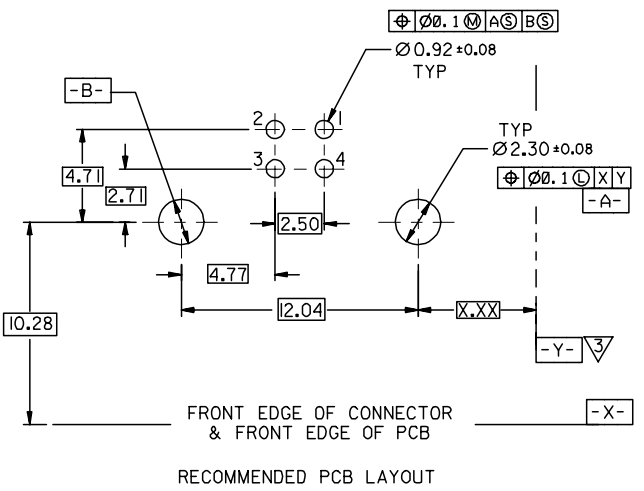
METAL SHELL :  
PURE TIN(SN), THICKNESS= 50 MICROINCH MINIMUM.  
/1.27 MICROMETER MINIMUM.  
UNDER PLATE : NICKEL (Ni), THICKNESS= 50 MICROINCH MINIMUM.  
/1.27 MICROMETER MINIMUM.

3. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER  
RECOMMENDED PCB THICKNESS : 1.60±0.05

4. PRODUCT SPECIFICATION : REFER TO PS-67998-0000

PART NUMBER LEGEND:

67068-7041



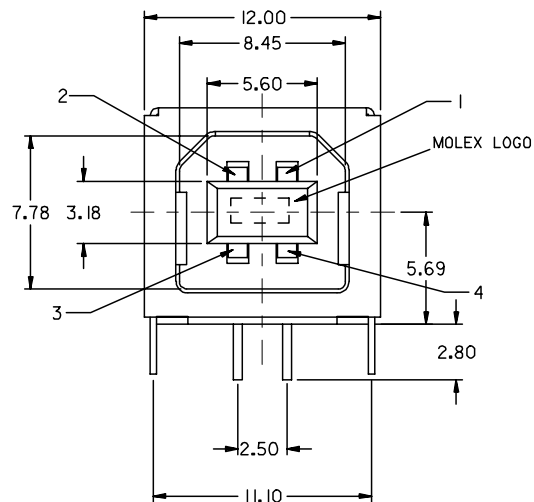
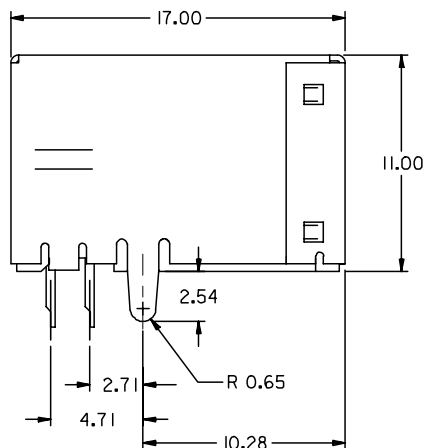
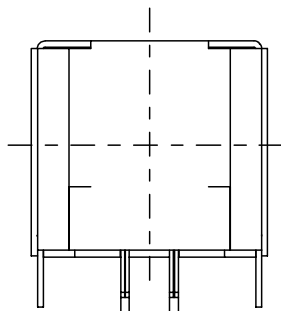
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|---------------------------|---------------------------|-----|----|----------|--------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------|
|                           |                           |     |    |          |                                | MATERIAL :<br>SEE NOTES | <br>MOLEX<br>TAIWAN LTD.<br>SHEET 3 OF 4 |          |
|                           |                           |     |    |          |                                | FINISH :<br>SEE NOTES   |                                                                                                                               |          |
|                           |                           |     |    |          |                                | WIRE RANGE :            |                                                                                                                               |          |
|                           |                           |     |    |          |                                | INS. RANGE :            |                                                                                                                               |          |
| A                         | NEW RELEASE FOR LEAD-FREE |     |    | DAVID HU | 2004/11/5                      | ENG. NO.:               | SD-67068-003                                                                                                                  | REV<br>A |
| LTR                       | REVISION RECORD           | ECN | DR | DATE     | DRAWN BY 2004/11/5<br>DAVID HU | CHK'D BY                | TITLE : HIGH TEMP./USB B TYPE CONNECTOR<br>KINK TYPE BOARD LOCK<br>(LEAD-FREE)                                                |          |
| REVISE ONLY ON CAD SYSTEM |                           |     |    |          | APPR'D BY                      | SCALE                   | 4 : 1                                                                                                                         |          |

DO NOT SCALE DRAWING

1

4 PRODUCT SPECIFICATION : REFER TO PS-67998-0000

## RECOMMENDED PCB LAYOUT



67068- 7051

|                           |                           |     |          |           |                                |              |              |                                                                                                                                                                                            |
|---------------------------|---------------------------|-----|----------|-----------|--------------------------------|--------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           |                           |     |          |           |                                | MATERIAL :   | SEE NOTES    |  <div style="text-align: center;"> <b>MOLEX</b><br/> <b>TAIWAN LTD.</b><br/><br/> SHEET 4 OF 4 </div> |
|                           |                           |     |          |           |                                | FINISH :     | SEE NOTES    |                                                                                                                                                                                            |
|                           |                           |     |          |           |                                | WIRE RANGE : |              |                                                                                                                                                                                            |
|                           |                           |     |          |           |                                | INS. RANGE : |              |                                                                                                                                                                                            |
| A                         | NEW RELEASE FOR LEAD-FREE |     | DAVID HU | 2004/11/5 |                                | ENG. NO.:    | SD-67068-003 |                                                                                                                                                                                            |
| LTR                       | REVISION RECORD           | ECN | DR       | DATE      | DRAWN BY 2004/11/5<br>DAVID HU | CHK'D BY     | REV A        |                                                                                                                                                                                            |
| REVISE ONLY ON CAD SYSTEM |                           |     |          |           |                                | APPR'D BY    | SCALE 4 : 1  | TITLE : HIGH TEMP./USB B TYPE CONNECTOR<br>WITH STRAIGHT TAB<br>(LEAD-FREE)                                                                                                                |