

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0670687041

Status:

Active

Description:

Universal Serial Bus (USB) Shielded I/O Type B Receptacle, Right Angle with Kinked Solder Tabs, Color Black, 0.76µm (30µ") Gold (Au) Plating, Tray Pack, Lead-Free

Documents:

3D Model

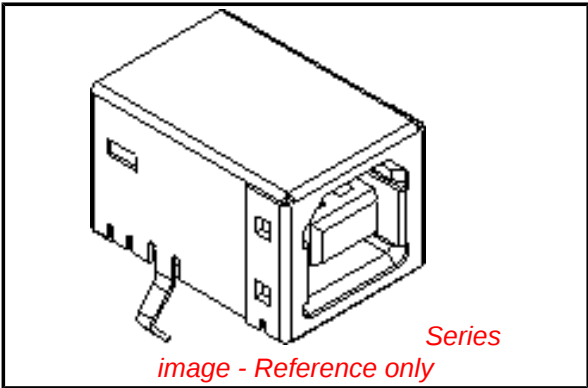
Drawing (PDF)

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: Mating (µin)      | 30             |
| Plating min: Mating (µm)       | 0.76           |
| 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)   |



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

67068Series

Mates With

USB Type B Plug

**Solder Process Data**

|                              |                        |
|------------------------------|------------------------|
| Lead-free Process Capability | Wave Capable (TH only) |
| Process Temperature max. C   | 260                    |

**Material Info**

**Reference - Drawing Numbers**

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

This document was generated on 04/07/2010

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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.

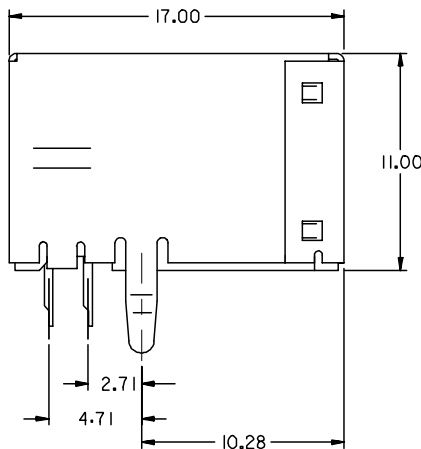
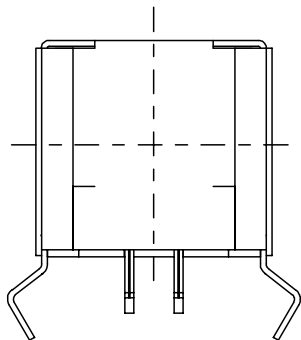
/1.27 MICROMETER MINIMUM.

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

|                 |
|-----------------|
| 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

DESIGN UNITS  
METRIC

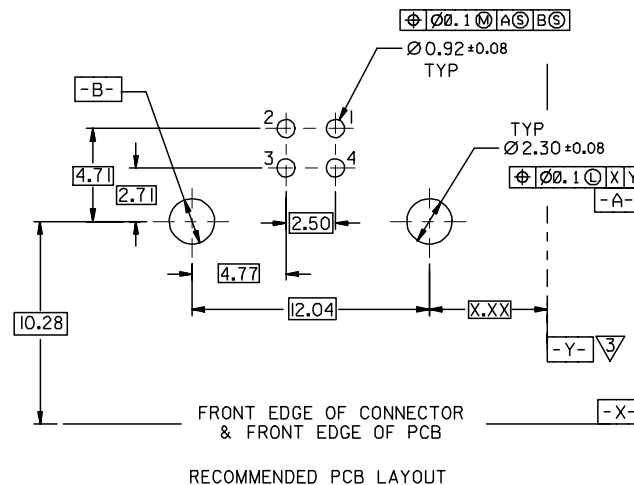
TITLE

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

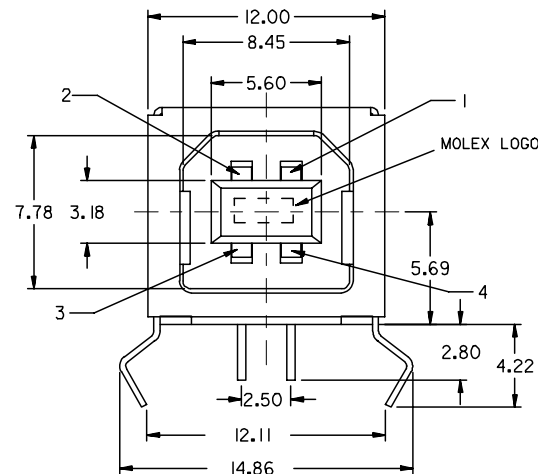
MOLEX INCORPORATED

DOCUMENT NO.  
SD-67068-003

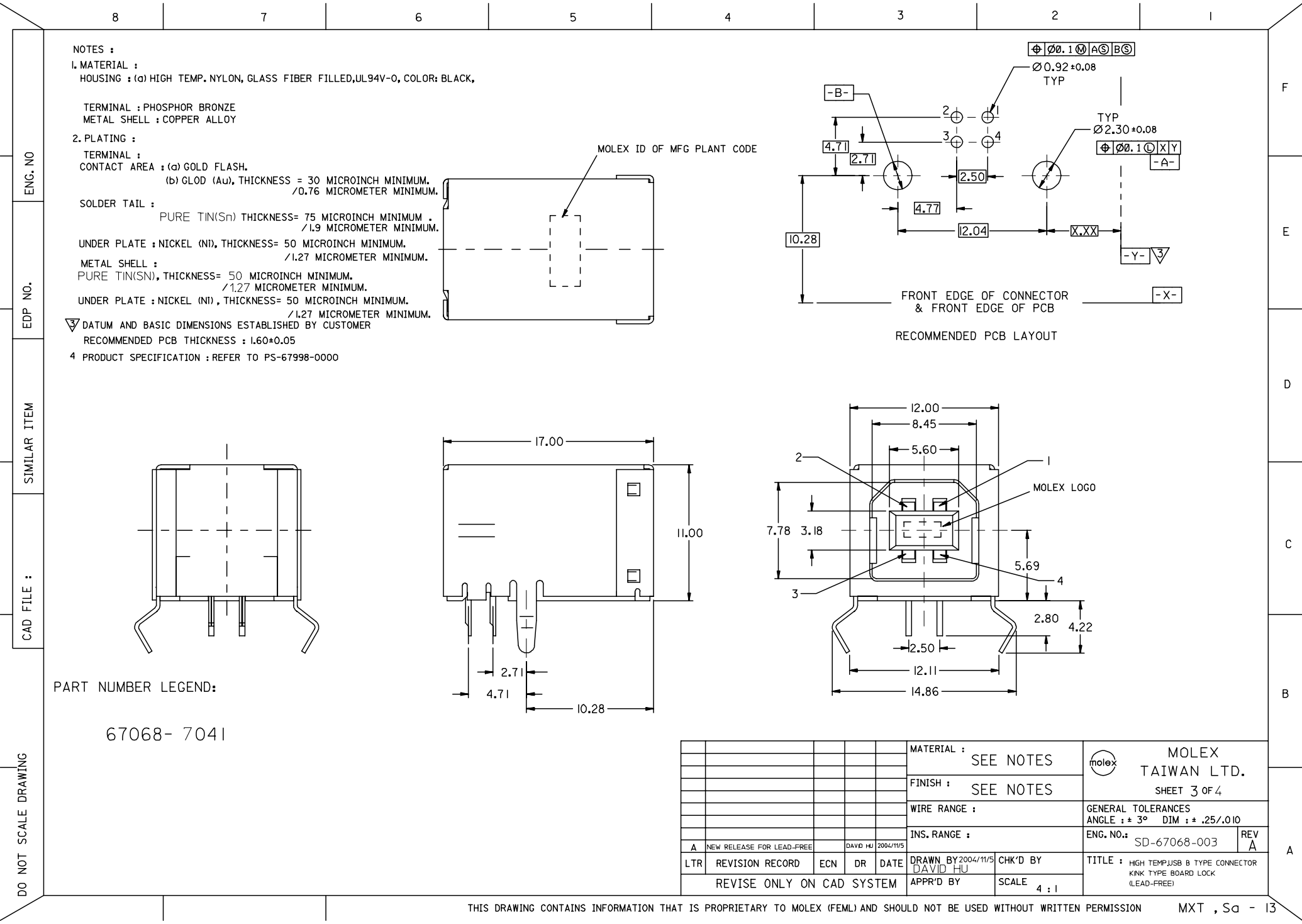
SHEET NO.  
1 OF 4



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

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

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

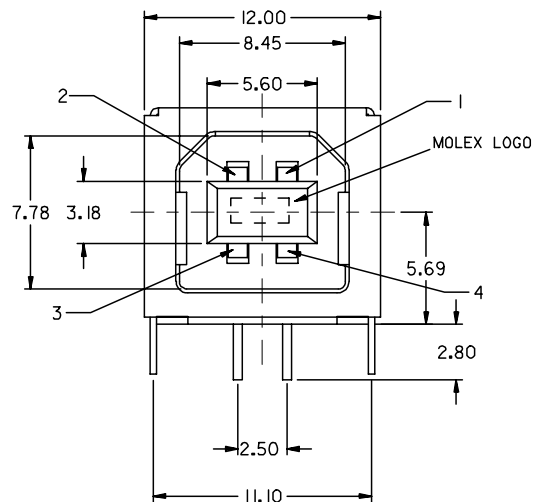
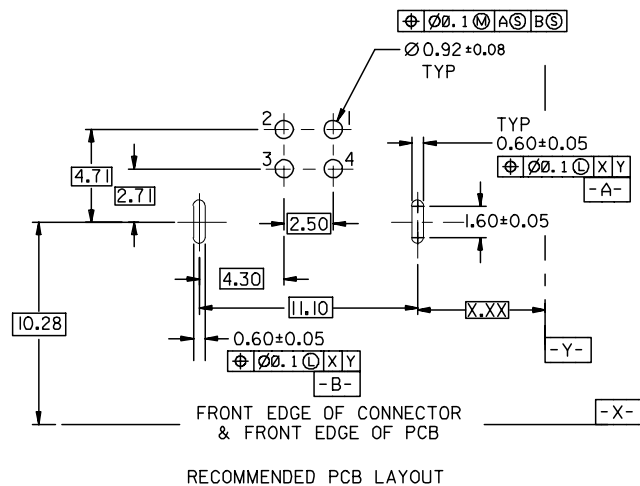
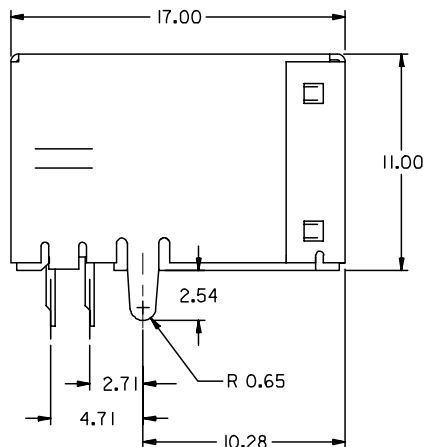
PART NUMBER LEGEND:

67068-7041

|                           |                           |     |    |          |                                |                         |                                                                                       |                      |          |
|---------------------------|---------------------------|-----|----|----------|--------------------------------|-------------------------|---------------------------------------------------------------------------------------|----------------------|----------|
|                           |                           |     |    |          |                                | MATERIAL :<br>SEE NOTES |  | MOLEX<br>TAIWAN LTD. |          |
|                           |                           |     |    |          |                                | FINISH :<br>SEE NOTES   |                                                                                       | SHEET 3 OF 4         |          |
|                           |                           |     |    |          |                                | WIRE RANGE :            | GENERAL TOLERANCES<br>ANGLE : ± 3° DIM : ± .25/.010                                   |                      |          |
|                           |                           |     |    |          |                                | INS. RANGE :            | ENG. NO.:<br>SD-67068-003                                                             |                      | REV<br>A |
| A                         | NEW RELEASE FOR LEAD-FREE |     |    | DAVID HU | 2004/11/5                      |                         |                                                                                       |                      |          |
| 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<br>4 : 1          |                                                                                       |                      |          |

DO NOT SCALE DRAWING

67068- 7051



|                           |                           |  |     |          |           |                                |                |              |                                                                                                                            |
|---------------------------|---------------------------|--|-----|----------|-----------|--------------------------------|----------------|--------------|----------------------------------------------------------------------------------------------------------------------------|
|                           |                           |  |     |          |           | MATERIAL :                     | SEE NOTES      |              |  MOLEX<br>TAIWAN LTD.<br>SHEET 4 OF 4 |
|                           |                           |  |     |          |           | FINISH :                       | 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>WITH STRAIGHT TAB<br>(LEAD-FREE)                                                |
| REVISE ONLY ON CAD SYSTEM |                           |  |     |          |           | APPR'D BY                      | SCALE<br>4 : 1 |              |                                                                                                                            |