

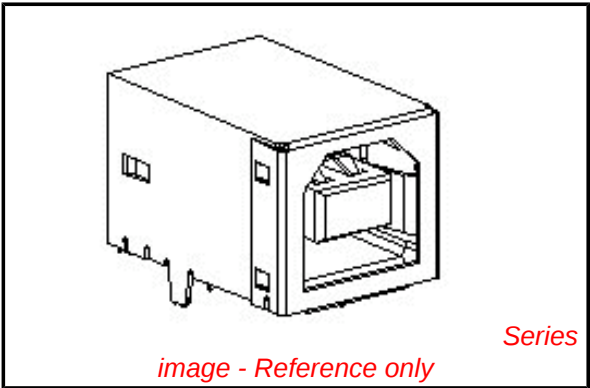
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0670689011](#)
Status: **Active**
Description: Universal Serial Bus (USB), Shielded I/O, Type B Receptacle, Right Angle with Straight Tabs, Color White, 0.76µm(30µ") Gold(Au) Plating, Tray Pack, Lead Free

Documents:
[3D Model](#) [Product Specification PS-67998-0000 \(PDF\)](#)
[Drawing \(PDF\)](#) [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
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



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status

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
[67068Series](#)

Mates With
USB Type B Plug

Shielded
Voltage - Maximum

Yes
30V (RMS)

Material Info

Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-67998-0000
SD-67068-003

This document was generated on 03/31/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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.

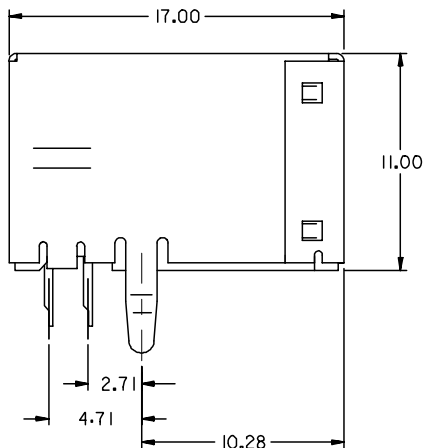
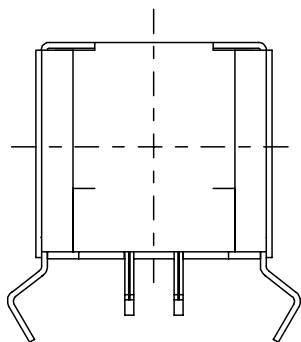
/1.27 MICROMETER MINIMUM.

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 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
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

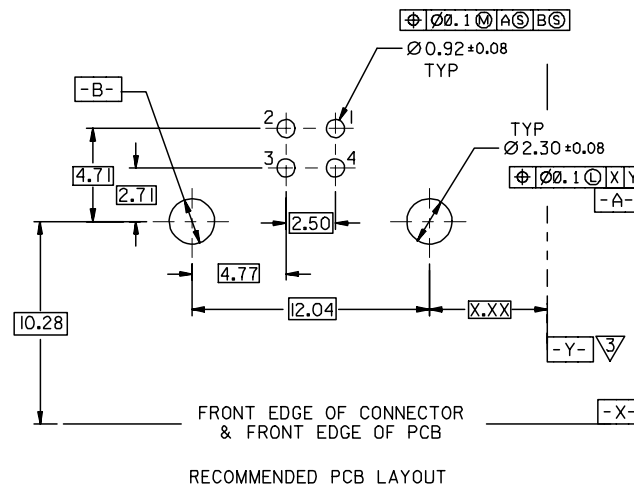
THIRD ANGLE
PROJECTION

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

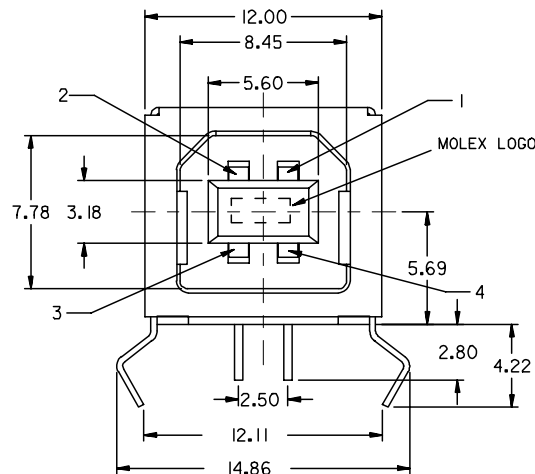
MOLEX INCORPORATED

DOCUMENT NO. SD-67068-003

SHEET NO.
1 OF 4



RECOMMENDED PCB LAYOUT



10 9 8 7 6 5 4 3 2 1

NOTES :

1. MATERIAL :

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

(b) POLYESTER, GLASS FIBER FILLED, UL94V-0, 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 : /1.27 MICROMETER MINIMUM.

PURE TIN(Sn) THICKNESS= 50 MICROINCH MINIMUM.

/1.27 MICROMETER MINIMUM.

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

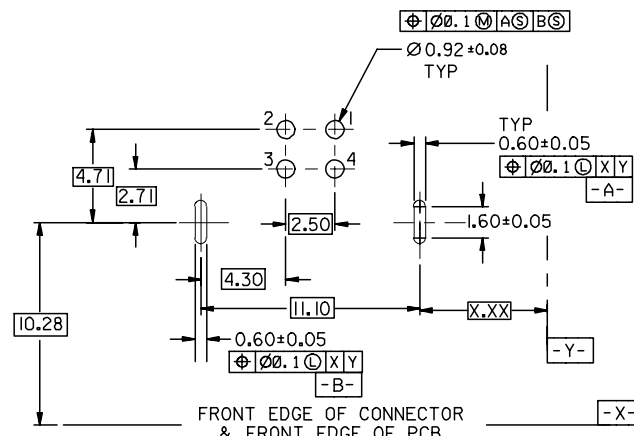
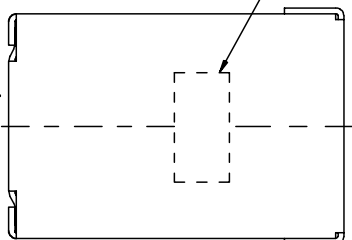
/1.27 MICROMETER MINIMUM.

3 DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER

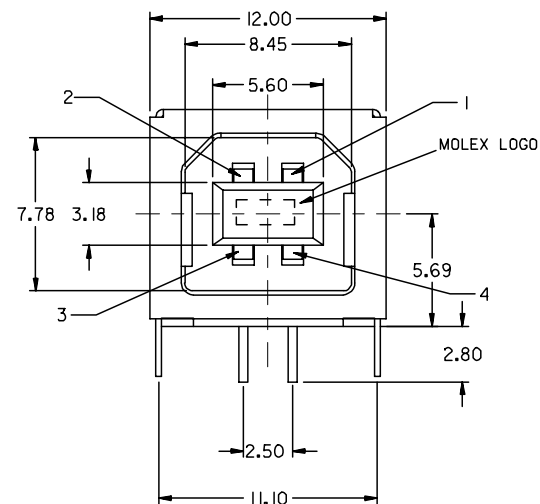
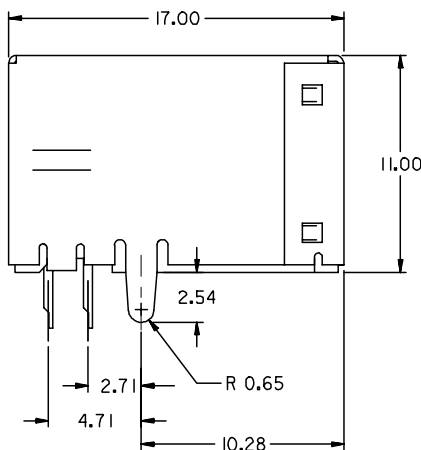
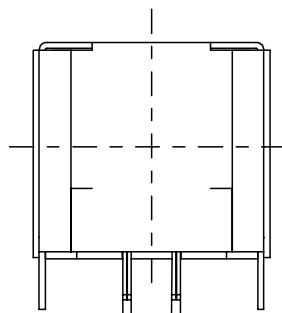
RECOMMENDED PCB THICKNESS : 1.60±0.05

4 PRODUCT SPECIFICATION : REFER TO PS-67998-0000

MOLEX ID OF MFG PLANT CODE



RECOMMENDED PCB LAYOUT



PART NUMBER LEGEND:

67068-

8 : BLACK HOUSING

9 : WHITE HOUSING

0 : TRAY PACKAGING

1 : TUBE PACKAGING

0 : GOLD FLASH

1 : 0.76 MICROMETER/30

MICROINCH GOLD

STRAIGHT TAB

NEW RELEASE	EC NO: SH2005-0142	DRWN: DAVID HU 2004/11/5	CHKD: HARVEY 2004/11/25	APPR: YIYAP 2004/11/25
A	REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)

QUALITY SYMBOLS
$\nabla = 0$
$\nabla C = 0$

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

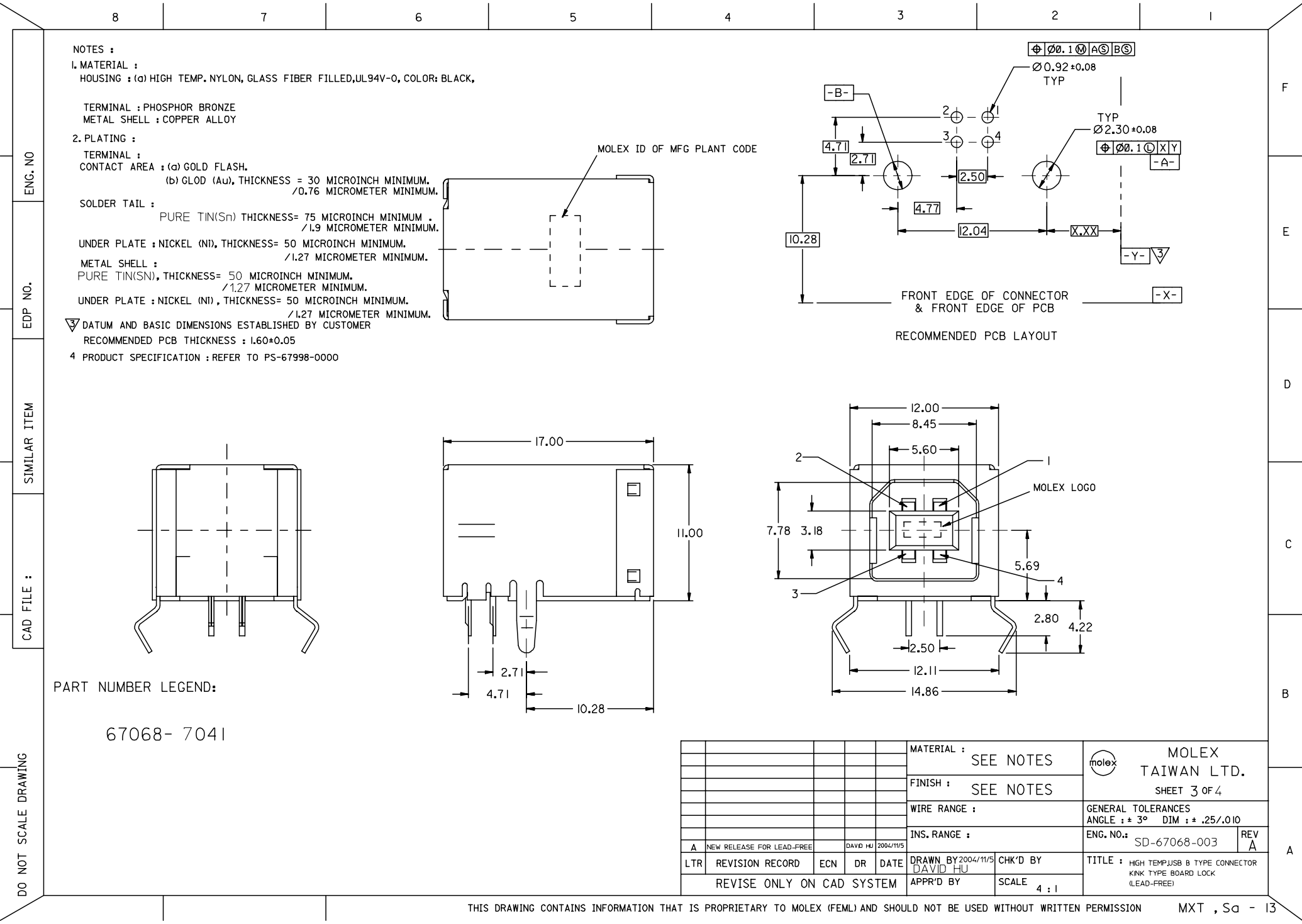
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DRAWN BY	DATE
DAVID HU	2004/11/05
CHECKED BY	DATE
	2004/11/05
APPROVED BY	DATE

MATERIAL NO. SEE NOTES

SIZE A3

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
4:1	METRIC	
TITLE		
USB B TYPE CONNECTOR		
WITH STRAIGHT TAB		
(LEAD-FREE)		
MOLEX INCORPORATED		
DOCUMENT NO.	SD-67068-003	SHEET NO. 2



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.

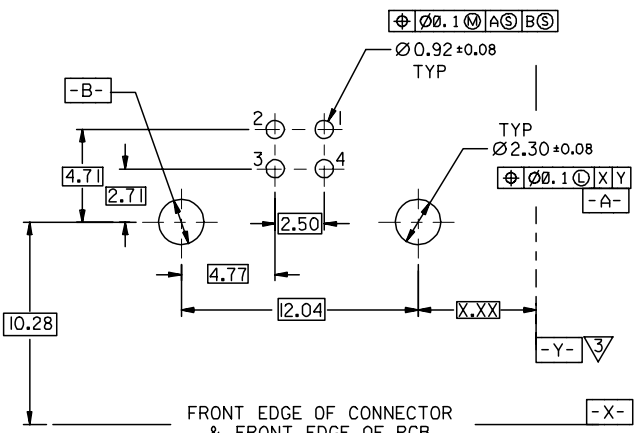
UNDER PLATE : NICKEL (Ni), THICKNESS= 50 MICROINCH MINIMUM.
/1.27 MICROMETER MINIMUM.

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.

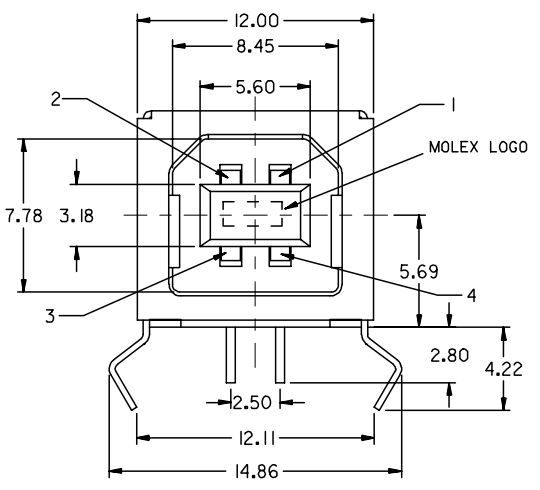
RECOMMENDED PCB THICKNESS : 1.60±0.05

4 PRODUCT SPECIFICATION : REFER TO PS-67998-0000



FRONT EDGE OF CONNECTOR
& FRONT EDGE OF PCB

RECOMMENDED PCB LAYOUT



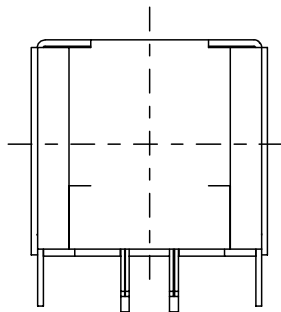
PART NUMBER LEGEND:

67068-7041

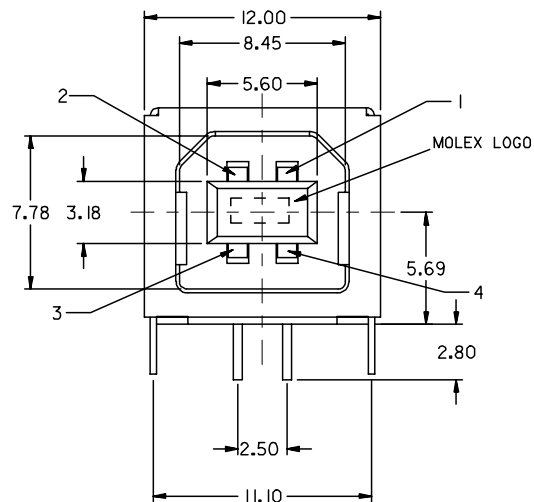
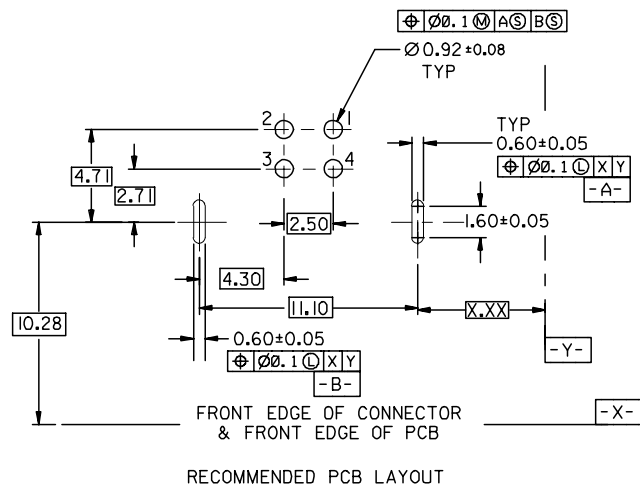
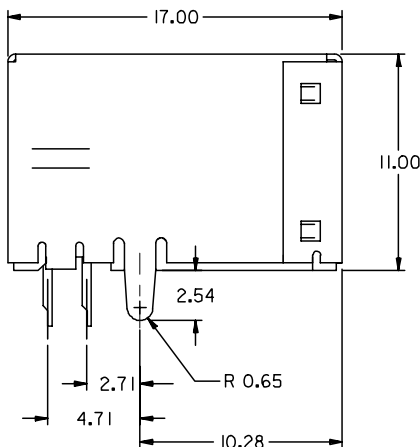
						MATERIAL : SEE NOTES	 MOLEX TAIWAN LTD. SHEET 3 OF 4
						FINISH : SEE NOTES	
						WIRE RANGE :	GENERAL TOLERANCES ANGLE : ± 3° DIM : ± .25/.010
						INS. RANGE :	ENG. NO.: SD-67068-003
A	NEW RELEASE FOR LEAD-FREE		DAVID HU		2004/11/5		REV A
LTR	REVISION RECORD	ECN	DR	DATE	DRAWN BY2004/11/5 DAVID HU	CHK'D BY	TITLE : HIGH TEMP.USB B TYPE CONNECTOR KINK TYPE BOARD LOCK (LEAD-FREE)
REVISE ONLY ON CAD SYSTEM					APPR'D BY	SCALE 4 : 1	

DO NOT SCALE DRAWING

4 PRODUCT SPECIFICATION : REFER TO PS-67998-0000



67068- 7051



						MATERIAL :	SEE NOTES	 MOLEX TAIWAN LTD. 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	
LTR	REVISION RECORD	ECN	DR	DATE	DRAWN BY 2004/11/5 DAVID HU	CHK'D BY		
REVISE ONLY ON CAD SYSTEM						APPR'D BY	SCALE 4 : 1	TITLE : HIGH TEMP./USB B TYPE CONNECTOR WITH STRAIGHT TAB (LEAD-FREE)
								REV A