

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0894011610

Status:

Active

Description:

2.00mm (.079") Pitch Wire-to-Board Header, Right Angle, 16 Circuits

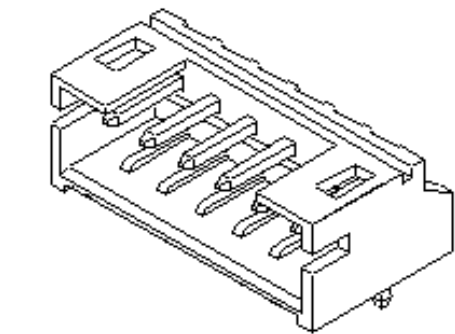


image - Reference only

Series

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-87369-0002 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	89401
Application	Wire-to-Board
Product Name	N/A

Physical

Breakaway	No
Circuits (Loaded)	16
Circuits (maximum)	16
Color - Resin	Natural
Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.118 In
PC Tail Length (mm)	3.00 mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.045 In
PCB Thickness Recommended (mm)	1.20 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.079 In
Pitch - Mating Interface (mm)	2.00 mm
Plating min: Mating (µin)	50
Plating min: Mating (µm)	1.27
Plating min: Termination (µin)	50
Plating min: Termination (µm)	1.27
Polarized to PCB	No
Shrouded	Partial
Stackable	No
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	4A
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EU RoHS

ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
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

89401Series

Mates With

90147 C-Grid® PC Board Connector. 90123
C-Grid III™ Modular Crimp Housing

Voltage - Maximum250V

Material Info

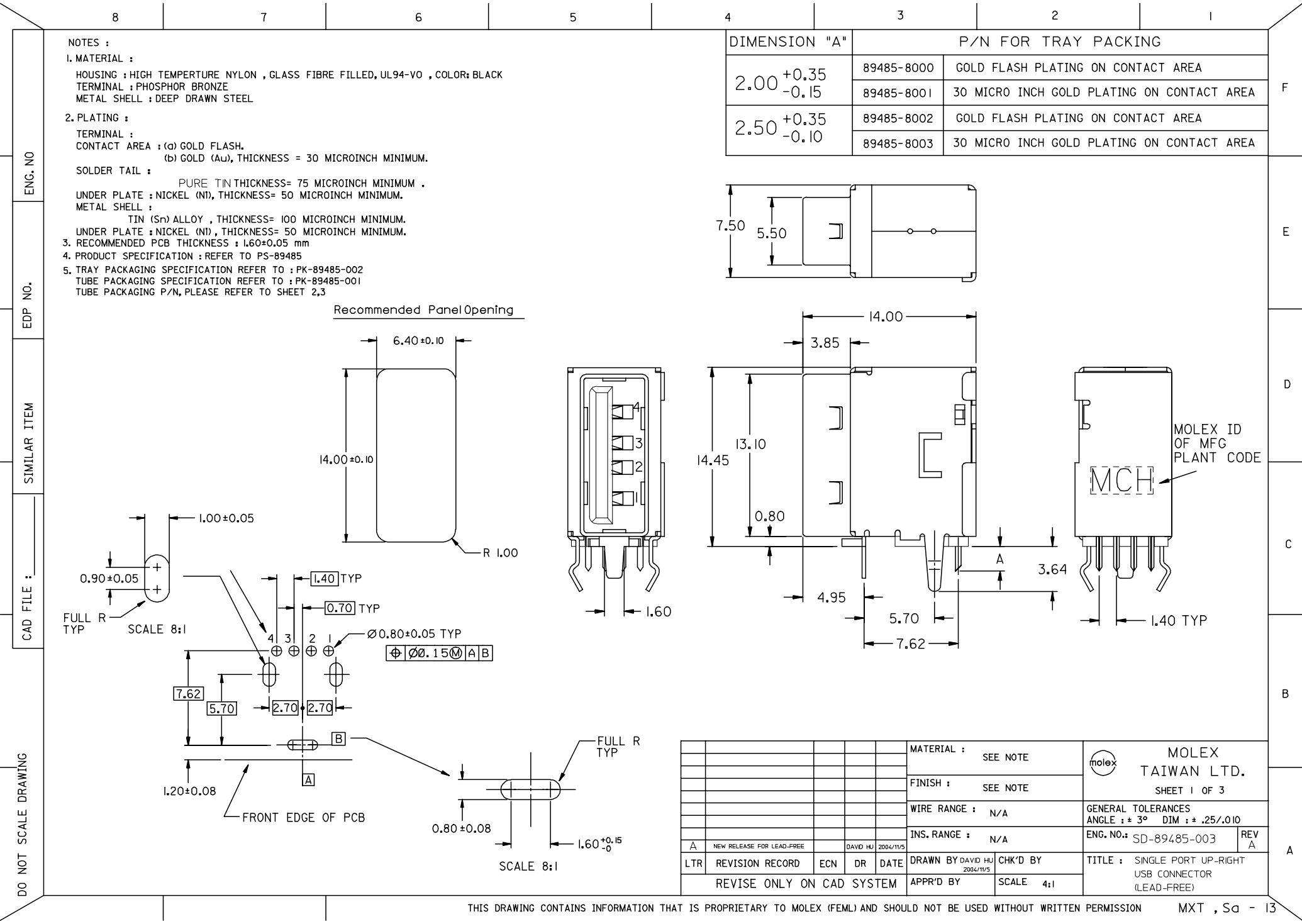
Reference - Drawing Numbers

Product SpecificationPS-87369-0002, RPS-87369-001

Sales DrawingSD-89401-**1*

This document was generated on 06/08/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



NOTES :

1. MATERIAL :

HOUSING : HIGH TEMPERATURE NYLON , GLASS FIBRE FILLED, UL94-V0 , COLOR: BLACK
TERMINAL : PHOSPHOR BRONZE
METAL SHELL : DEEP DRAWN STEEL

2. PLATING :

TERMINAL :
CONTACT AREA : (a) GOLD FLASH.
(b) GOLD (Au), THICKNESS = 30 MICROINCH MINIMUM.
SOLDER TAIL :
PURE TIN THICKNESS= 75 MICROINCH MINIMUM .

UNDER PLATE : NICKEL (Ni), THICKNESS= 50 MICROINCH MINIMUM.
METAL SHELL :
TIN (Sn) ALLOY , THICKNESS= 100 MICROINCH MINIMUM.

UNDER PLATE : NICKEL (Ni), THICKNESS= 50 MICROINCH MINIMUM.
3. RECOMMENDED PCB THICKNESS : 1.60±0.05 mm

4. PRODUCT SPECIFICATION : REFER TO PS-89485

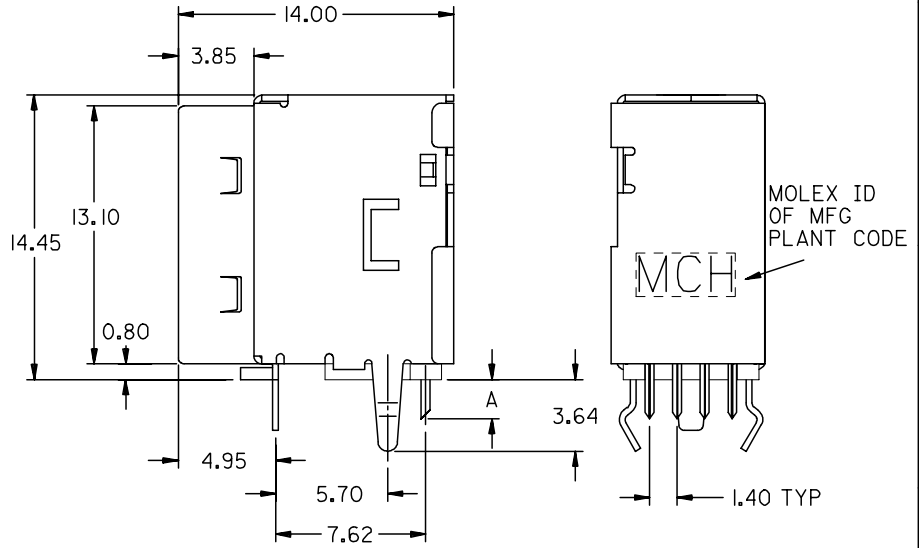
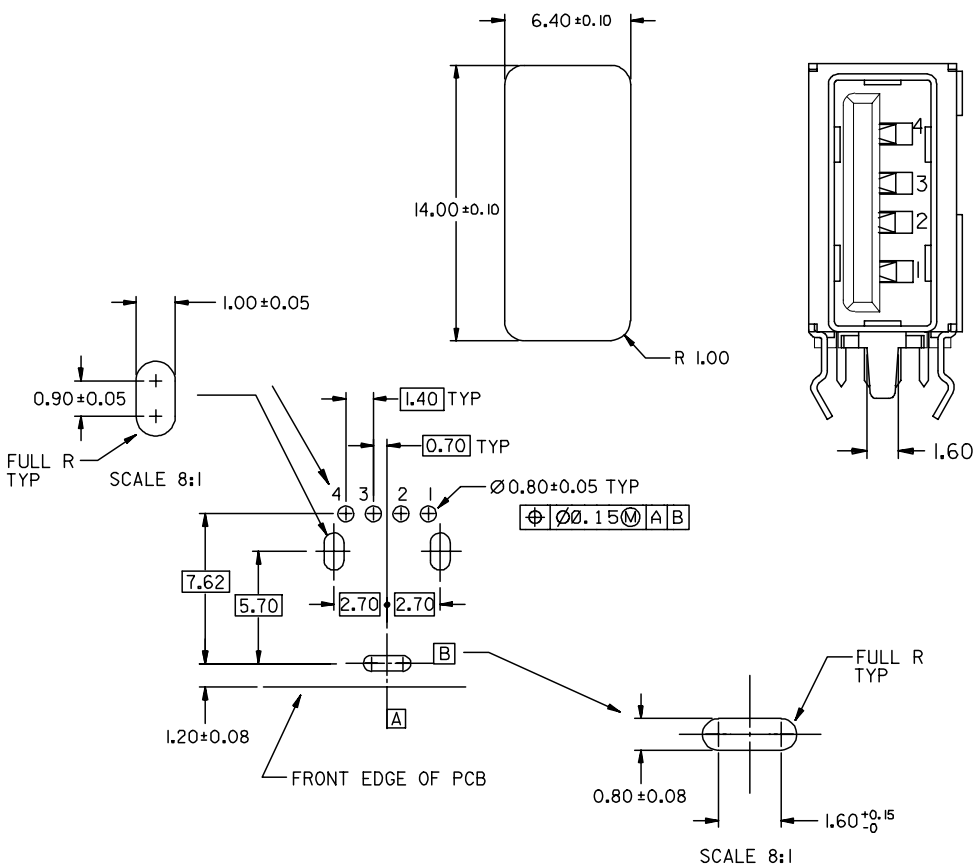
5. TRAY PACKAGING SPECIFICATION REFER TO : PK-89485-002
TUBE PACKAGING SPECIFICATION REFER TO : PK-89485-001
TUBE PACKAGING P/N, PLEASE REFER TO SHEET 2,3

DIMENSION "A"

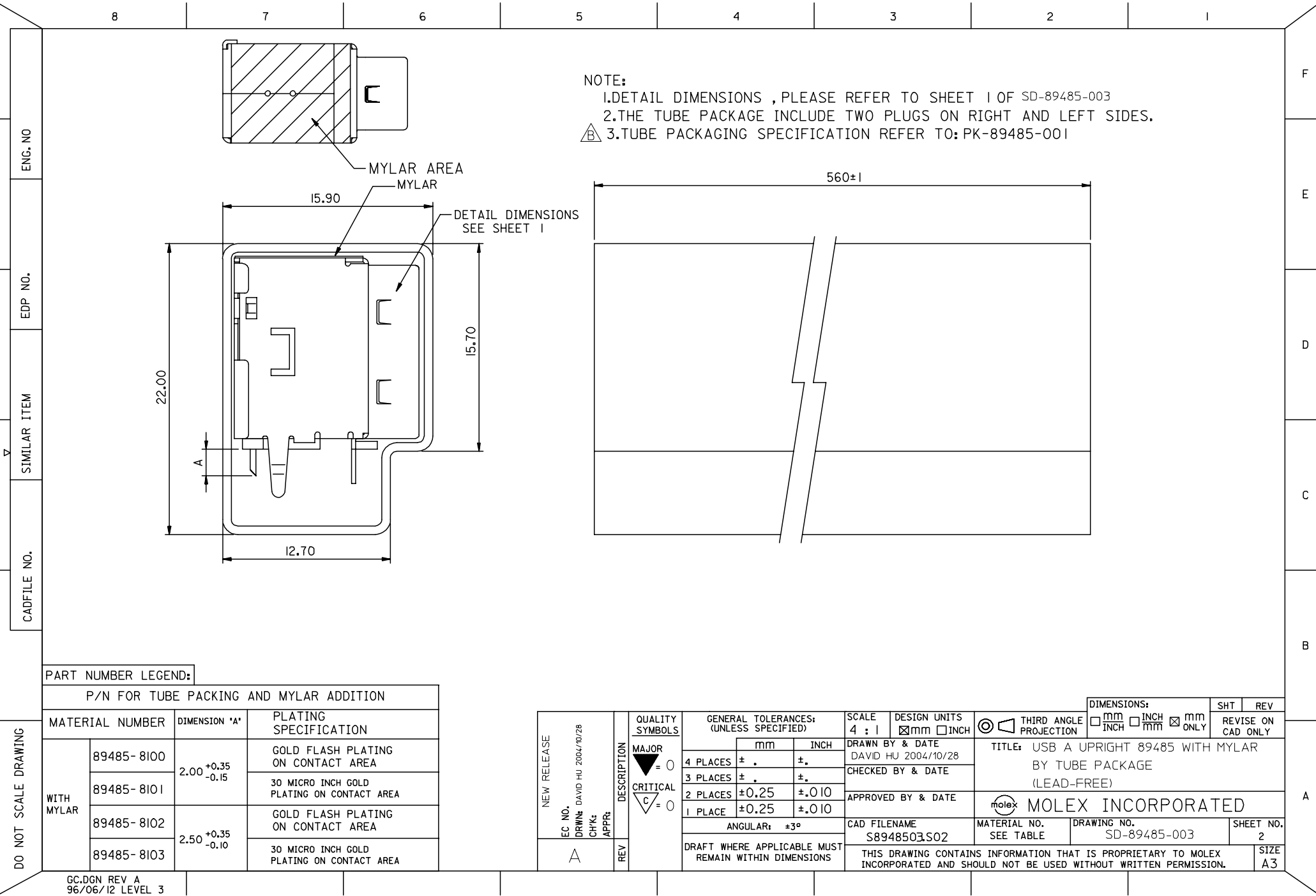
P/N FOR TRAY PACKING

2.00 ^{+0.35} _{-0.15}	89485-8000	GOLD FLASH PLATING ON CONTACT AREA
	89485-8001	30 MICRO INCH GOLD PLATING ON CONTACT AREA
2.50 ^{+0.35} _{-0.10}	89485-8002	GOLD FLASH PLATING ON CONTACT AREA
	89485-8003	30 MICRO INCH GOLD PLATING ON CONTACT AREA

Recommended Panel Opening

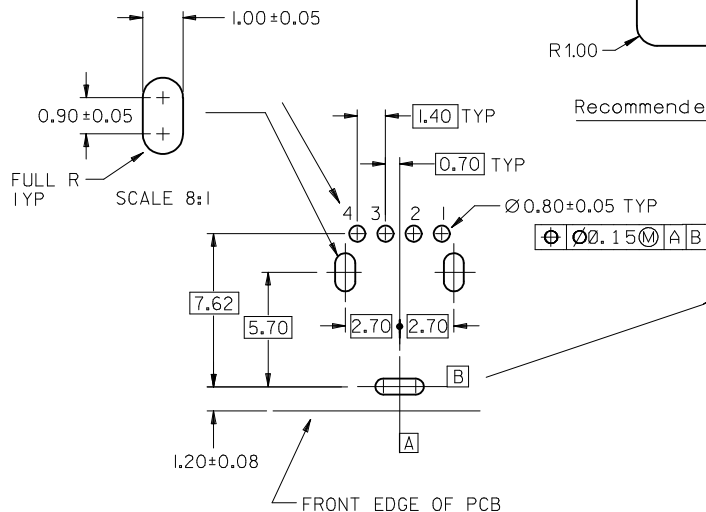
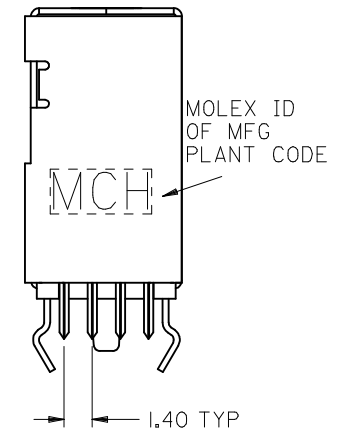
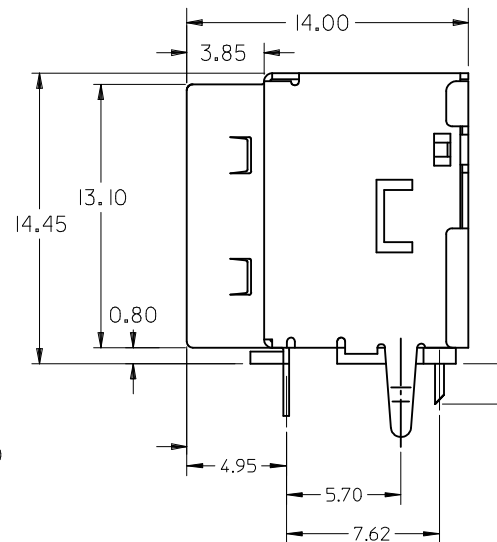
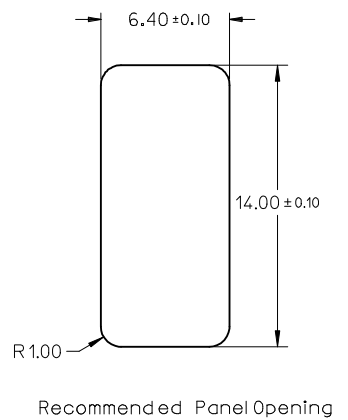
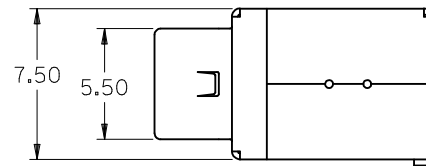


						MATERIAL : SEE NOTE	 MOLEX TAIWAN LTD. SHEET 1 OF 3	
						FINISH : SEE NOTE		
						WIRE RANGE : N/A	GENERAL TOLERANCES ANGLE : ± 3° DIM : ± .25/.010	
						INS. RANGE : N/A	ENG. NO.: SD-89485-003	REV A
A	NEW RELEASE FOR LEAD-FREE			DAVID HU	2004/11/5			
LTR	REVISION RECORD	ECN	DR	DATE	DRAWN BY DAVID HU 2004/11/5	CHK'D BY	TITLE : SINGLE PORT UP-RIGHT USB CONNECTOR (LEAD-FREE)	
REVISE ONLY ON CAD SYSTEM					APPR'D BY	SCALE 4:1		



NOTE:
1.MATERIAL:
HOUSING:HIGH TEMPERATURE NYLON, GLASS FIBRE FILLED, UL94-V0, COLOR:BLACK
TERMINAL:PHOSPHOR BRONZE
METAL SHELL:DEEP DRAWN STEEL
2.PLATING:
TERMINAL:
(a)GOLD FLASH ON THE CONTACT AREA, AND 75MICROINCH MINIMUM PURE TIN ON SOLDER TAIL, UNDER 50MICROINCH MINIMUM Ni PLATE.
(b)30MICROINCH MINIMUM GOLD(Au) ON THE CONTACT AREA, AND 75MICROINCH MINIMUM PURE TIN ON SOLDER TAIL, UNDER 50MICROINCH MINIMUM Ni UNDER PLATE.
(c)GOLD FLASH ON THE CONTACT AREA, AND 75MICROINCH MINIMUM MATTE TIN ON SOLDER TAIL, UNDER 50MICROINCH MINIMUM Ni PLATE.
METAL SHELL:
(d)100MICROINCH MINIMUM BRIGHT TIN ON THE METAL SHELL, AND 50MICROINCH MINIMUM Ni AND 100MICROINCH MINIMUM Cu PLATE.
(e)100MICROINCH MINIMUM MATTE TIN ON THE METAL SHELL, AND 50MICROINCH MINIMUM Ni AND 100MICROINCH MINIMUM Cu PLATE.
3.RECOMMENDED PCB THICKNESS:1.60 ±0.05mm
4.PRODUCT SPECIFICATION:REFER TO PS-89485
5. TRAY PACKAGING SPECIFICATION REFER TO:PK-89485-002
TUBE PACKAGING SPECIFICATION REFER TO:PK-89485-001
TUBE PACKAGING P/N, PLEASE REFER TO: SHEET 2,3

DIMENSION "A"	P/N	PLATING	TERMINAL CONTACT PLATING	TERMINAL SOLDER PLATING	METAL SHELL PLATING
2.00 ^{+0.35} _{-0.15}	89485-8000	SEE NOTES (a)+(d)	GOLD FLASH	75 MICRO INCH BRIGHT TIN	100 MICRO INCH BRIGHT TIN
	89485-8001	SEE NOTES (b)+(d)	30 MICRO INCH GOLD		
2.50 ^{+0.35} _{-0.10}	89485-8002	SEE NOTES (a)+(d)	GOLD FLASH	75 MICRO INCH BRIGHT TIN	100 MICRO INCH BRIGHT TIN
	89485-8003	SEE NOTES (b)+(d)	30 MICRO INCH GOLD		
	89485-8012	SEE NOTES (c)+(e)	GOLD FLASH	75 MICRO INCH MATTE TIN	100 MICRO INCH MATTE TIN



NEW RELEASE
EC NO: SH2009-0233
DRAWN: ZHAO
CHECK: ZHANG
APPR: HWANG
2008/12/02
2008/12/12
2008/12/17

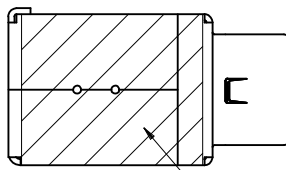
QUALITY SYMBOLS
▽=0
C=0
DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± 0.25 ± .010
1 PLACE ± 0.25 ± .010
ANGULAR ± 3 °
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY
DRAWN BY DATE
DAVID HU
CHECKED BY DATE
APPROVED BY DATE
MATERIAL NO.
SEE TABLE
SIZE
A3

SCALE
4:1
DESIGN UNITS
METRIC
THIRD ANGLE PROJECTION
TITLE
SINGLE PORT UP-RIGHT
USB CONNECTOR
LEAD-FREE
MOLEX INCORPORATED
DOCUMENT NO.
SD-89485-003
SHEET NO.
1 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

10 9 8 7 6 5 4 3 2 1



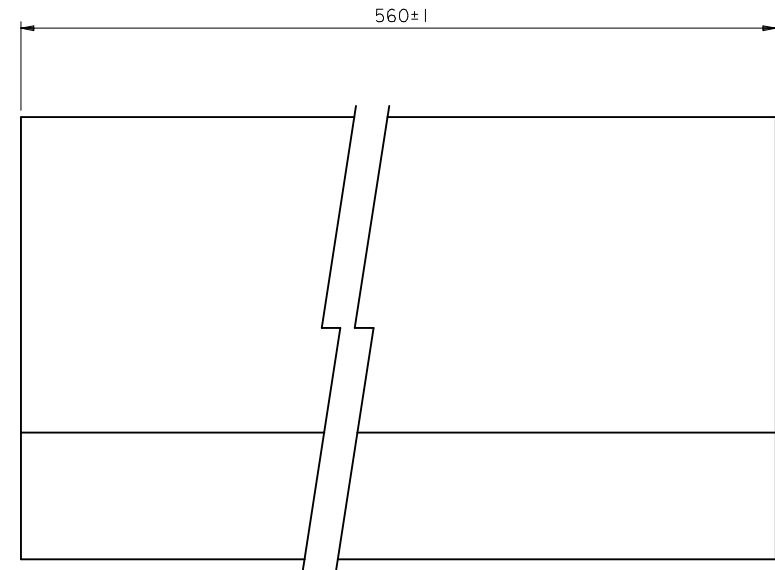
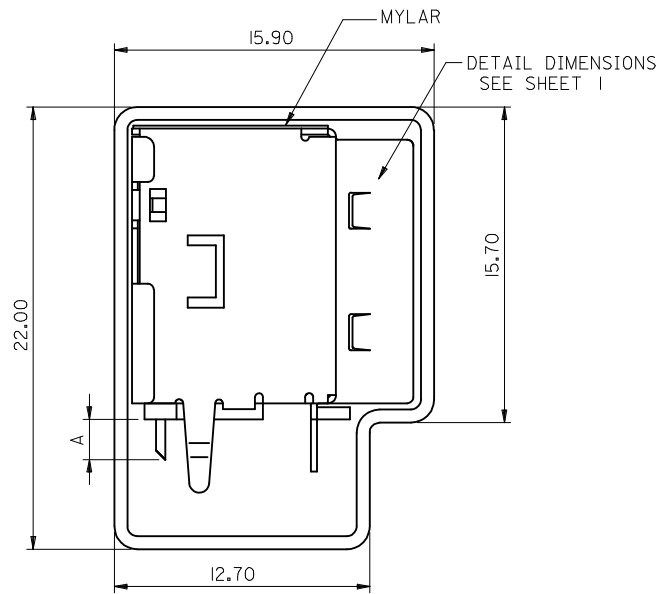
MYLAR AREA

NOTE:

1.DETAIL DIMENSIONS ,PLEASE REFER TO SHEET 1 OF SD-89485-003

2.THE TUBE PACKAGE INCLUDE TWO PLUGS ON RIGHT AND LEFT SIDES.

3.TUBE PACKAGING SPECIFICATION REFER TO: PK-89485-001



PART NUMBER LEGEND:

P/N FOR TUBE PACKING AND MYLAR ADDITION			
MATERIAL NUMBER		DIMENSION 'A'	PLATING SPECIFICATION
WITH MYLAR	89485- 8100	2.00 ^{+0.35} _{-0.15}	GOLD FLASH PLATING ON CONTACT AREA
	89485- 8101		30 MICRO INCH GOLD PLATING ON CONTACT AREA
	89485- 8102	2.50 ^{+0.35} _{-0.10}	GOLD FLASH PLATING ON CONTACT AREA
	89485- 8103		30 MICRO INCH GOLD PLATING ON CONTACT AREA

NEW RELEASE EC NO: SH2009-0233 DR:WNEZHAO 2008/12/02 CHKD:RZHANG 2008/12/12 APPR:HWANG 2008/12/17 D	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE SINGLE PORT UP-RIGHT USB CONNECTOR LEAD-FREE	MOLEX INCORPORATED	DOCUMENT NO. SD-89485-003	SHEET NO. 2 OF 3

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DRAWN BY DAVID HU		DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	
MATERIAL NO.		SEE TABLE	

SINGLE PORT UP-RIGHT USB CONNECTOR LEAD-FREE		MOLEX INCORPORATED	
DOCUMENT NO. SD-89485-003		SHEET NO. 2 OF 3	

10 9 8 7 6 5 4 3 2 1

F

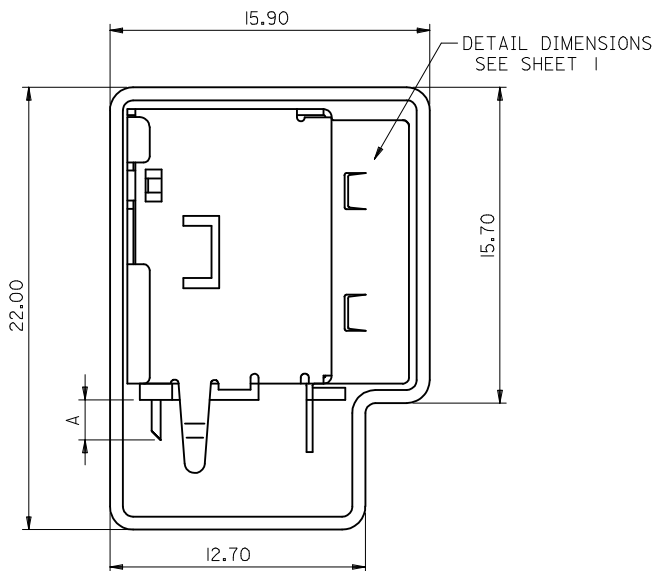
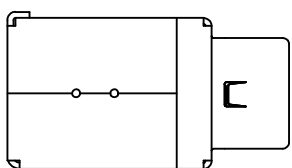
E

D

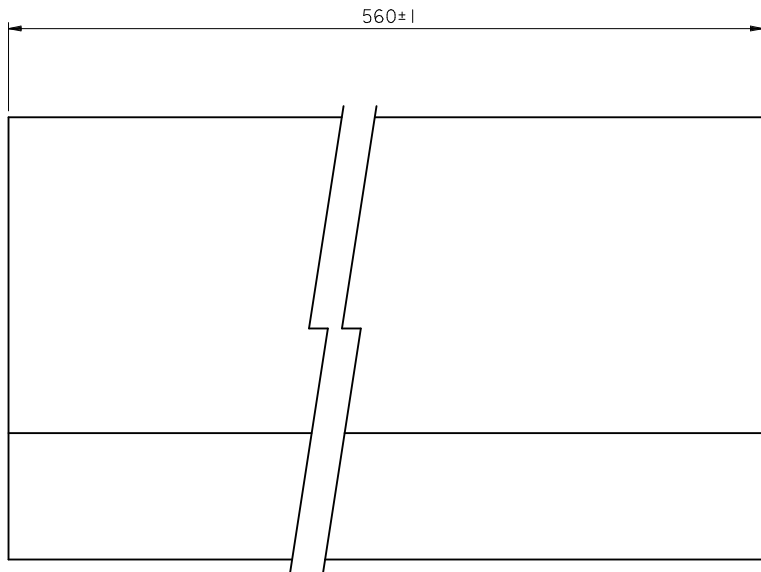
C

B

A



NOTE:
1.DETAIL DIMENSIONS , PLEASE REFER TO SHEET 1 OF SD-89485-003
2.THE TUBE PACKAGE INCLUDE TWO PLUGS ON RIGHT AND LEFT SIDES.
3.TUBE PACKAGING SPECIFICATION REFER TO: PK-89485-001



PART NUMBER LEGEND:

P/N FOR TUBE PACKING		
MATERIAL NUMBER	DIMENSION *A	PLATING SPECIFICATION
WITHOUT MYLAR	2.00 ^{+0.35} _{-0.15}	89485-8200 GOLD FLASH PLATING ON CONTACT AREA
		89485-8201 30 MICRO INCH GOLD PLATING ON CONTACT AREA
	2.50 ^{+0.35} _{-0.10}	89485-8202 GOLD FLASH PLATING ON CONTACT AREA
		89485-8203 30 MICRO INCH GOLD PLATING ON CONTACT AREA

tb_frame_A3_P_AM_T
Rev. E 2006/04/15

NEW RELEASE EC NO: SH2009-0233 D	DRW:NEZHAO 2008/12/02 CHKD:RZHANG 2008/12/12 APPR:HWANG 2008/12/17	QUALITY SYMBOLS DESCRIPTION REV	 =0  =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY DAVID HU	DATE	TITLE SINGLE PORT UP-RIGHT USB CONNECTOR LEAD-FREE MOLEX INCORPORATED		
				4 PLACES	± ---	± ---	CHECKED BY	DATE			
				3 PLACES	± ---	± ---	APPROVED BY	DATE			
				2 PLACES	± 0.25	± .010	MATERIAL NO.				DOCUMENT NO.
			1 PLACE	± 0.25	± .010	ANGULAR ± 3 °		SEE TABLE		SD-89485-003	3 OF 3
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							