

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0894858201](#)  
**Status:** **Active**  
**Description:** Universal Serial Bus (USB) Shielded I/O Type A Receptacle, Single Upright, Right Angle, Terminal Length 2.00mm (.079"), Without Mylar, 0.76µm (30µ") Gold (Au) Plating, Tube Package, Lead Free

**Documents:**

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-89485 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a> |

**Agency Certification**

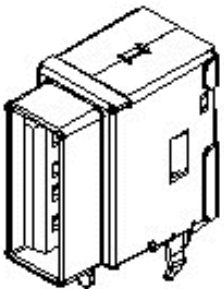
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |                       |
|----------------|-----------------------|
| Product Family | I/O Connectors        |
| Series         | <a href="#">89485</a> |
| Application    | Wire-to-Board         |
| Comments       | Without Mylar         |
| Component Type | Receptacle            |
| Product Name   | USB                   |
| Type           | A                     |

**Physical**

|                                |                    |
|--------------------------------|--------------------|
| Boot Color                     | N/A                |
| Circuits (Loaded)              | 4                  |
| Circuits (maximum)             | 4                  |
| Flammability                   | 94V-0              |
| Gender                         | Male               |
| Lock to Mating Part            | Yes                |
| Material - Plating Mating      | Gold               |
| Material - Plating Termination | Tin                |
| Number of Rows                 | 1                  |
| Orientation                    | Upright            |
| PC Tail Length (in)            | 0.079 In           |
| PC Tail Length (mm)            | 2.00 mm            |
| PCB Locator                    | Yes                |
| PCB Retention                  | Yes                |
| PCB Thickness Recommended (in) | 0.062 In           |
| PCB Thickness Recommended (mm) | 1.60 mm            |
| Packaging Type                 | Tube               |
| Panel Mount                    | No                 |
| Pitch - Mating Interface (in)  | 0.079 In, 0.098 In |
| Pitch - Mating Interface (mm)  | 2.00 mm, 2.50 mm   |
| Pitch - Term. Interface (in)   | 0.055 In           |
| Pitch - Term. Interface (mm)   | 1.40 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) | No                 |
| Temperature Range - Operating  | 125°C              |
| Termination Interface: Style   | Through Hole       |
| Waterproof / Dustproof         | No                 |



Series

image - Reference only

**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**

[89485Series](#)

**Mates With**

[88740](#) USB Type A Cable Plug

**Electrical**

|                               |               |
|-------------------------------|---------------|
| Current - Maximum per Contact | 1A            |
| Shield Type                   | Full Shield   |
| Shielded                      | Yes           |
| Voltage - Maximum             | 750V AC (RMS) |

**Solder Process Data**

|                              |                        |
|------------------------------|------------------------|
| Lead-free Process Capability | Wave Capable (TH only) |
|------------------------------|------------------------|

**Material Info**

**Reference - Drawing Numbers**

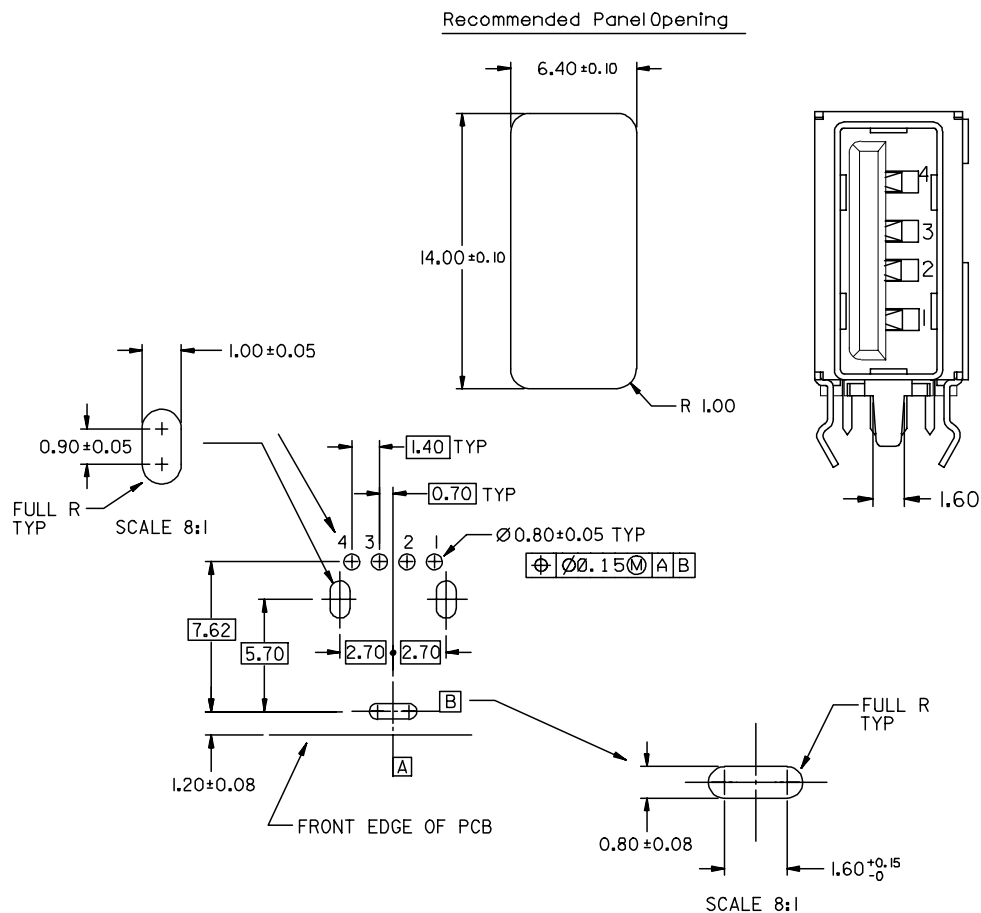
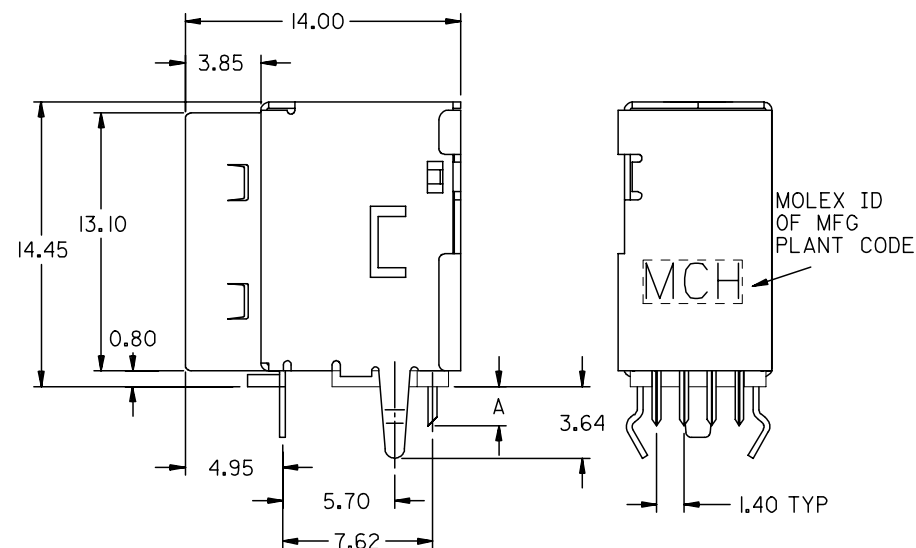
|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-89485-001 |
| Product Specification   | PS-89485     |
| Sales Drawing           | SD-89485-003 |

This document was generated on 05/25/2010

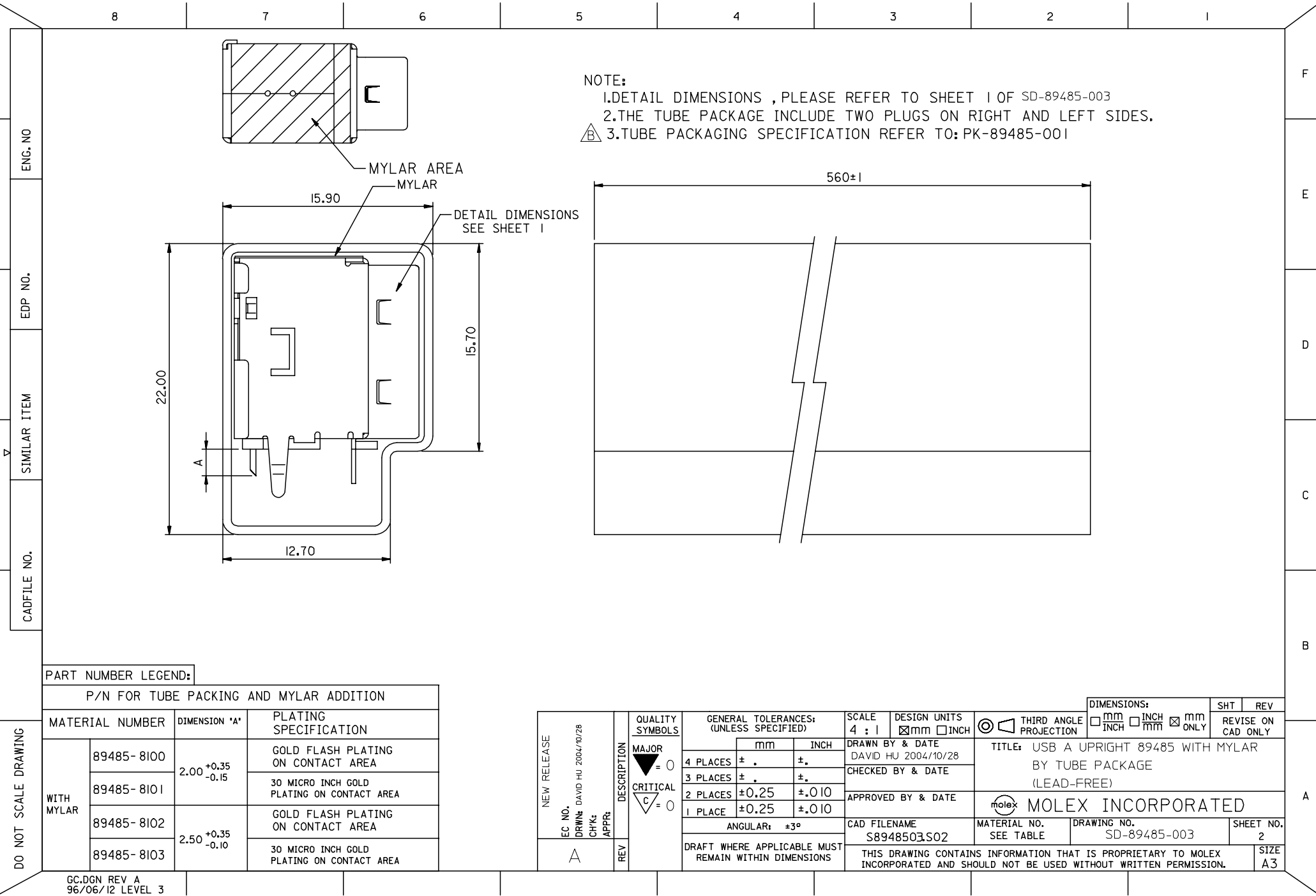
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TABLE 1 CONTINUING (7) (4), PLEASE REFER TO SHEET 2, 3

30 MICRO INCH GOLD PLATING ON CONTACT AREA

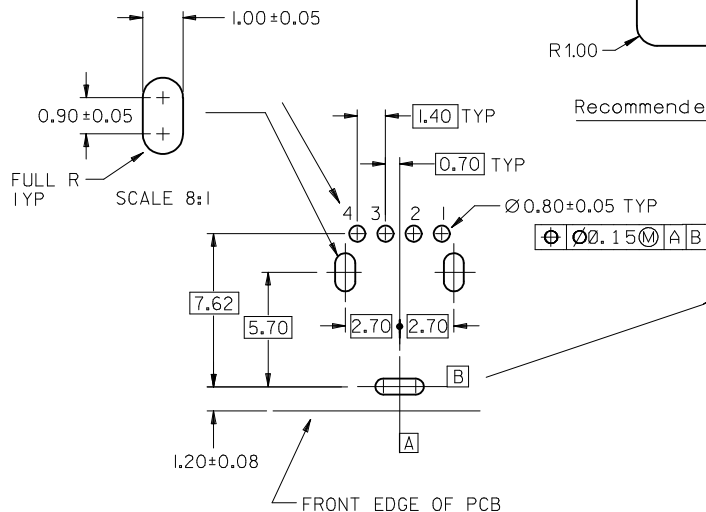
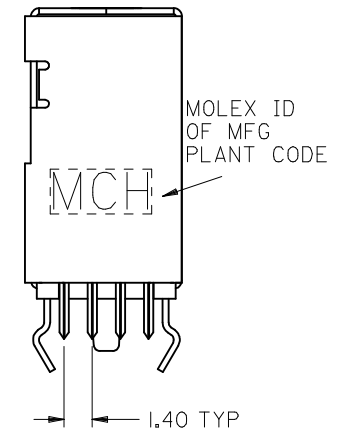
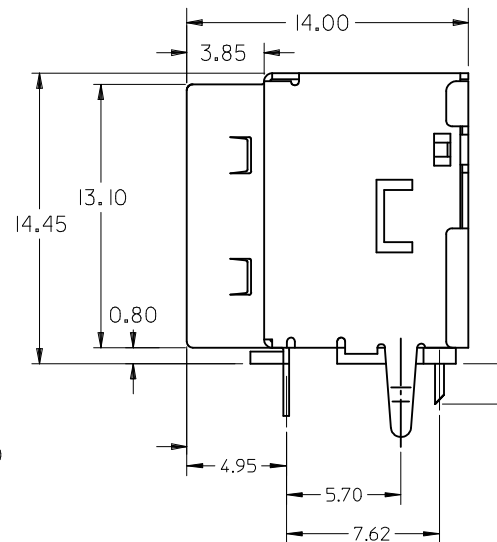
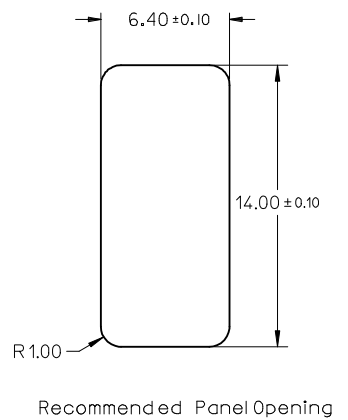
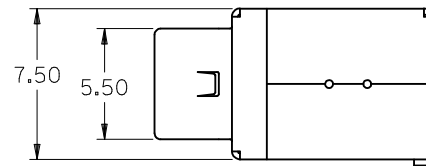


|                           |                           |     |          |           |                                |              |          |                                                                                                                                                 |
|---------------------------|---------------------------|-----|----------|-----------|--------------------------------|--------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|                           |                           |     |          |           |                                | MATERIAL :   | SEE NOTE | <br><b>MOLEX</b><br><b>TAIWAN LTD.</b><br><br>SHEET 1 OF 3 |
|                           |                           |     |          |           |                                | FINISH :     | SEE NOTE |                                                                                                                                                 |
|                           |                           |     |          |           |                                | WIRE RANGE : | N/A      |                                                                                                                                                 |
|                           |                           |     |          |           |                                | INS. RANGE : | N/A      |                                                                                                                                                 |
|                           |                           |     |          |           |                                |              |          |                                                                                                                                                 |
| A                         | NEW RELEASE FOR LEAD-FREE |     | DAVID HU | 2004/11/5 |                                |              |          | GENERAL TOLERANCES<br>ANGLE : ± 3° DIM : ± .25/0.10<br><br>ENG. NO.: SD-89485-003                                                               |
| LTR                       | REVISION RECORD           | ECN | DR       | DATE      | DRAWN BY DAVID HU<br>2004/11/5 | CHK'D BY     |          | REV A<br><br>TITLE : SINGLE PORT UP-RIGHT<br>USB CONNECTOR<br>(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 <sup>+0.35</sup> <sub>-0.15</sub> | 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 <sup>+0.35</sup> <sub>-0.10</sub> | 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

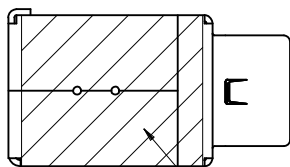
QUALITY SYMBOLS  
▽=0  
C=0  
DESCRIPTION  
REV

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 DAVID HU  
CHECKED BY  
APPROVED BY  
DATE  
MATERIAL NO.  
SEE TABLE  
SIZE A3  
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE 4:1  
DESIGN UNITS METRIC  
THIRD ANGLE PROJECTION  
TITLE SINGLE PORT UP-RIGHT USB CONNECTOR LEAD-FREE  
MOLEX MOLEX INCORPORATED  
DOCUMENT NO. SD-89485-003  
SHEET NO. 1 OF 3

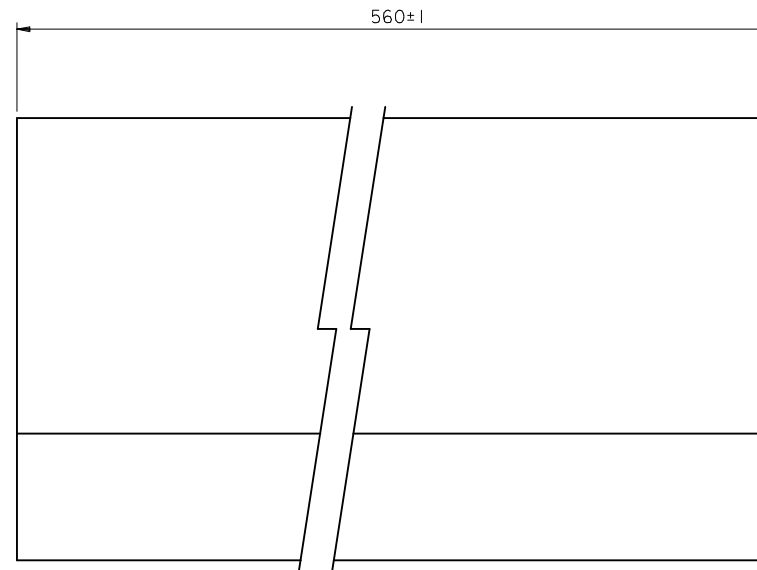
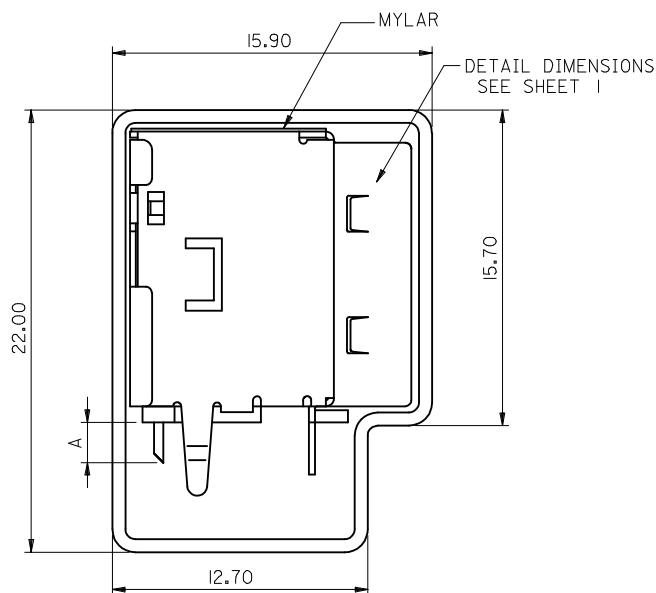
10 9 8 7 6 5 4 3 2 1



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 <sup>+0.35</sup> <sub>-0.15</sub> | GOLD FLASH PLATING ON CONTACT AREA         |
|                 | 89485- 8101 |                                        | 30 MICRO INCH GOLD PLATING ON CONTACT AREA |
|                 | 89485- 8102 | 2.50 <sup>+0.35</sup> <sub>-0.10</sub> | 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

QUALITY SYMBOLS  
▽=0  
▽C=0

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

SCALE  
4:1

DOCUMENT NO.  
SD-89485-003

DESIGN UNITS  
METRIC

THIRD ANGLE PROJECTION

SINGLE PORT UP-RIGHT  
USB CONNECTOR  
LEAD-FREE

MOLEX INCORPORATED

SHEET NO.  
2 OF 3

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

F

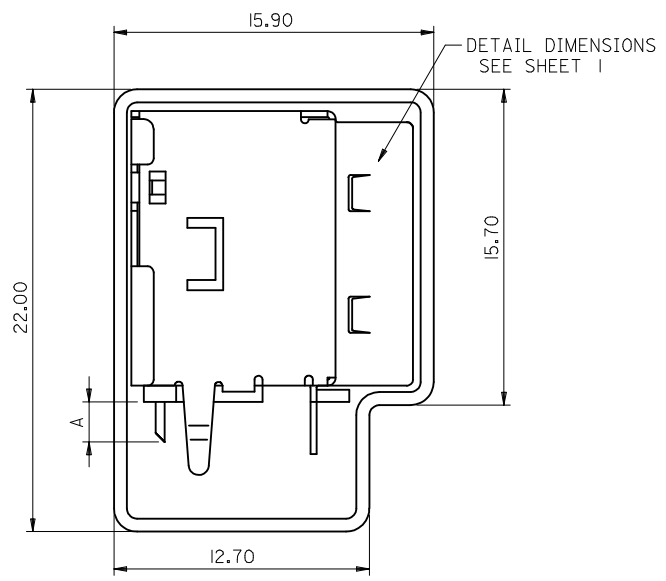
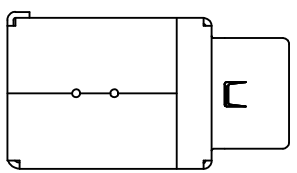
E

D

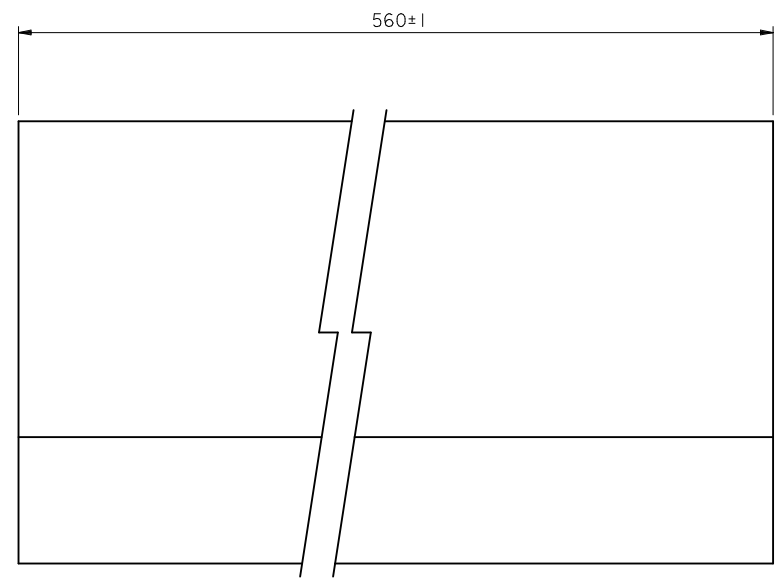
C

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 <sup>+0.35</sup> <sub>-0.15</sub> | 89485-8200 GOLD FLASH PLATING ON CONTACT AREA         |
|                      |                                        | 89485-8201 30 MICRO INCH GOLD PLATING ON CONTACT AREA |
|                      | 2.50 <sup>+0.35</sup> <sub>-0.10</sub> | 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<br>EC NO: SH2009-0233<br>DRW:NEZHAO<br>CHKD:RZHANG<br>APPR:HWANG | 2008/12/02  | 2008/12/12 | 2008/12/17      |
|                                                                              | DESCRIPTION | REV        | QUALITY SYMBOLS |
|                                                                              |             |            | ▽=0             |
|                                                                              |             |            | ▽=0             |

| 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 |
| 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.                                                                                                                     | 3 OF 3       |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.