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**Part Number:** [0877153915](#)  
**Status:** **Active**  
**Overview:**  
**Description:** 1.00mm (.039") Pitch, PCI Express\* Connector, 280 Circuits, Nylon 4/6 Glass-filled, Black Housing, Phosphor Bronze, 0.38µm (15µ") Gold (Au) Plating, with Plastic Pegs, 3.00mm (.118") Solder tail, Lead Free

**Agency Certification**

CSA LR19980

**General**

Product Family Edge Card Connectors  
Series 87715  
Component Type Edgecard to PCB  
Overview pci\_express\_card\_edge\_connector  
Product Name PCI Express\*

**Physical**

Circuits (Loaded) 280  
Circuits (maximum) 280  
Circuits Detail All Signal  
Durability (mating cycles max) 50  
Entry Angle Vertical (Top Entry)  
Flammability 94V-0  
Keying to Mating Part Yes  
Material - Plating Mating Gold  
Material - Plating Termination Tin  
PC Tail Length (in) 0.118 In  
PC Tail Length (mm) 3.00 mm  
PCB Locator Yes  
PCB Retention Yes  
PCB Thickness Recommended (in) 0.093 In  
PCB Thickness Recommended (mm) 2.40 mm  
Packaging Type Tray  
Pitch - Mating Interface (in) 0.039 In  
Pitch - Mating Interface (mm) 1.00 mm  
Pitch - Term. Interface (in) 0.039 In  
Pitch - Term. Interface (mm) 1.00 mm  
Plating min: Mating (µin) 15  
Plating min: Mating (µm) 0.38  
Polarized to Mating Part Yes  
Temperature Range - Operating -55°C to +85°C  
Termination Interface: Style Through Hole

**Electrical**

Current - Maximum per Contact 1.1A  
Voltage - Maximum 50V AC (RMS)/DC

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification PK-87715-206  
Product Specification PS-87715-206  
Sales Drawing SD-87715-206  
Test Summary TS-87715-206

\* PCI Express is a registered trademark of PCI-SIG®

**EU RoHS**

**ELV and RoHS  
Compliant**

**REACH SVHC**

Not Reviewed

**Halogen-Free  
Status**

**Not Reviewed**

**China RoHS**



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For a multiple part number RoHS Certificate of  
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non-product compliance questions.

**Search Parts in this Series**

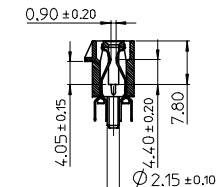
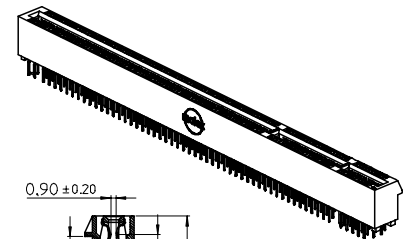
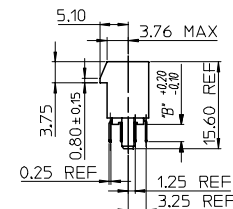
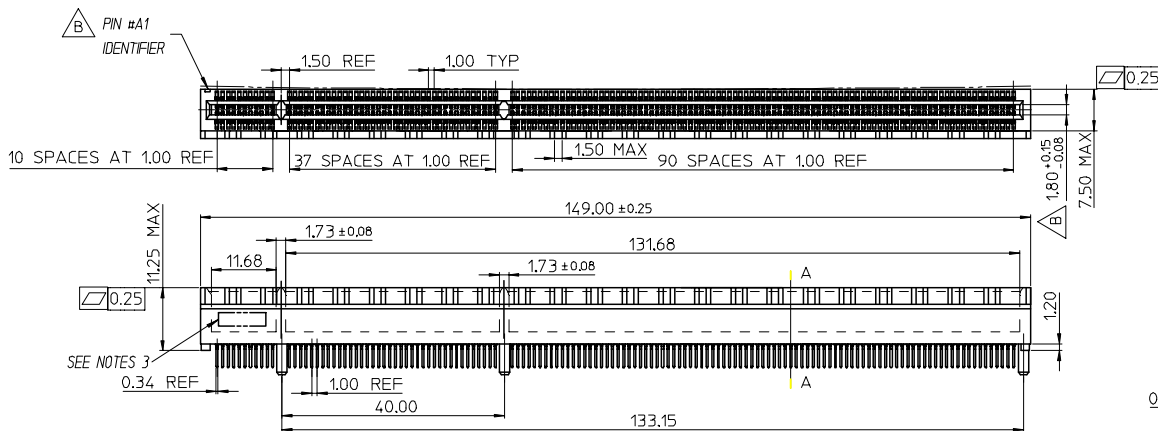
[87715Series](#)

**Mates With**

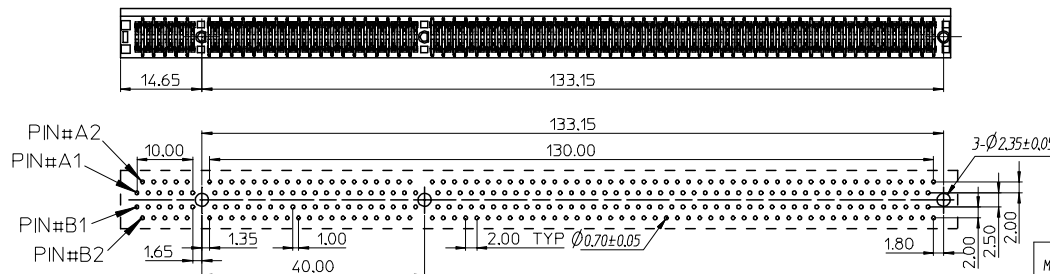
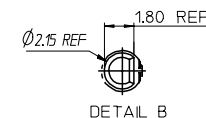
PCI Express Card

This document was generated on 06/04/2010

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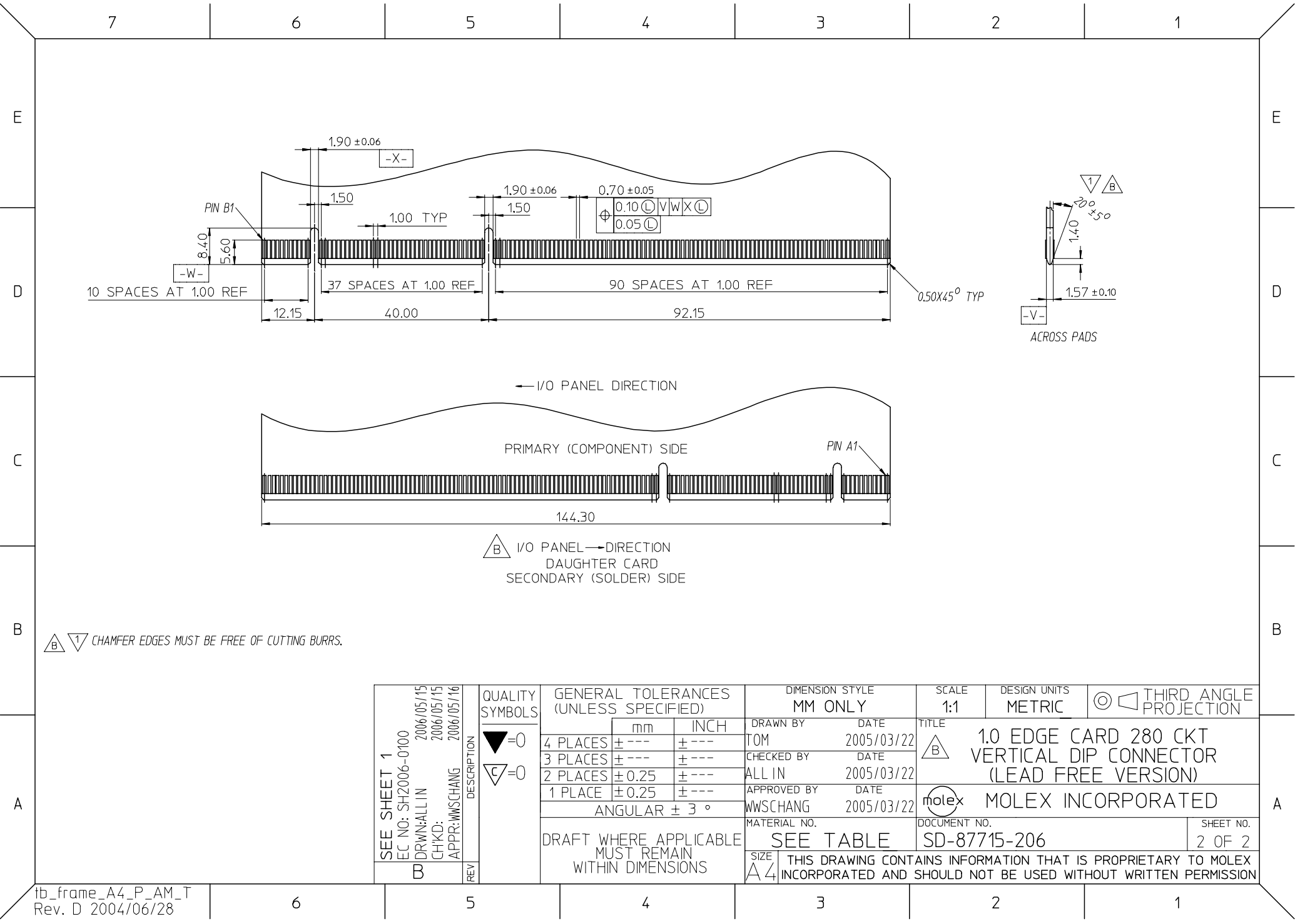
SECTION A-A



- NOTES:
- 1.MATERIALS:  
1-1.HOUSING:SEE TABLE GLASS FIBER FILLED UL94V-0  
COLOR:SEE TABLE  
1-2.CONTACT:SEE TABLE
  - 2.PLATING:  
2-1.CONTACT AREA:SEE TABLE  
2-2.SOLDER TAIL:SEE TABLE  
2-3.UNDER PLATING:SEE TABLE
  - 3.DATE CODE:TO BE PRINTED
  - 4.PRODUCT SPECIFICATION REFER TO PS-87715-200
  - 5.PACKAGE SPECIFICATION REFER TO PK-87715-206
  - 6.TEST SUMMARY:REFER TO TS-87715-206
  - 7.LEAD FREE AND ROHS COMPLIANT.

| MOLEX P/N  | CIRCUIT SIZE | HOUSING MATERIAL | HOUSING COLOR | TERMINAL MATERIAL | CONTACT PLATING | SOLDER TAIL PLATING                              | DIM B* |
|------------|--------------|------------------|---------------|-------------------|-----------------|--------------------------------------------------|--------|
| 87715-3914 | 280          | NYLON 46         | BLACK         | PHOSPHOR BRONZE   | GOLD FLASH      | 100 MICRONCH TIN OVER 50 MICRONCH NICKEL OVERALL | 3.00   |
| 87715-3915 | 280          | NYLON 46         | BLACK         | PHOSPHOR BRONZE   | 15 MICRONCH     | 100 MICRONCH TIN OVER 50 MICRONCH NICKEL OVERALL | 3.00   |
| 87715-3916 | 280          | NYLON 46         | BLACK         | PHOSPHOR BRONZE   | 30 MICRONCH     | 100 MICRONCH TIN OVER 50 MICRONCH NICKEL OVERALL | 3.00   |
| 87715-3917 | 280          | NYLON 46         | BLACK         | PHOSPHOR BRONZE   | GOLD FLASH      | 100 MICRONCH TIN OVER 50 MICRONCH NICKEL OVERALL | 2.54   |
| 87715-3918 | 280          | NYLON 46         | BLACK         | PHOSPHOR BRONZE   | 15 MICRONCH     | 100 MICRONCH TIN OVER 50 MICRONCH NICKEL OVERALL | 2.54   |
| 87715-3919 | 280          | NYLON 46         | BLACK         | PHOSPHOR BRONZE   | 30 MICRONCH     | 100 MICRONCH TIN OVER 50 MICRONCH NICKEL OVERALL | 2.54   |

|                                                              |            |                                                                                                                               |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
|--------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|----|-------|------------------------|---------------------------|-------|----------|-------|-------|----------|--------|-------|---------|--------|-------|---------------|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|------|-----|------------|------------|------|--------|------------|-------------|------|----------|------------|----------------------------------------------------------------------------------------------|--|
| EWR 2006-0005 & 2006-0019<br>2005-0094<br>EC NO: SH2006-0100 |            | 2006/05/15<br>2006/05/15<br>2006/05/16                                                                                        |  | DESCRIPTION<br>REV           | QUALITY SYMBOLS<br><div>▽=0</div> <div>▽=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                                                                                                                                                                                                         |  |  | DIMENSION STYLE<br>MM ONLY |    | SCALE | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| DRWN:ALL IN                                                  |            | CHKD:<br>APPR:WWSCHANG                                                                                                        |  |                              |                                                  | <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± 0.25</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± 0.25</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ± 3 °</td></tr></table> |  |  |                            | mm | INCH  | 4 PLACES               | ± ---                     | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± 0.25 | ± --- | 1 PLACE | ± 0.25 | ± --- | ANGULAR ± 3 ° |  |  | <table><tr><td>DRAWN BY</td><td>DATE</td></tr><tr><td>TOM</td><td>2005/03/22</td></tr><tr><td>CHECKED BY</td><td>DATE</td></tr><tr><td>ALL IN</td><td>2005/03/22</td></tr><tr><td>APPROVED BY</td><td>DATE</td></tr><tr><td>WWSCHANG</td><td>2005/03/22</td></tr></table> |  | DRAWN BY | DATE | TOM | 2005/03/22 | CHECKED BY | DATE | ALL IN | 2005/03/22 | APPROVED BY | DATE | WWSCHANG | 2005/03/22 | TITLE<br><div>B</div> 1.0 EDGE CARD 280 CKT<br>VERTICAL DIP CONNECTOR<br>(LEAD FREE VERSION) |  |
|                                                              | mm         | INCH                                                                                                                          |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| 4 PLACES                                                     | ± ---      | ± ---                                                                                                                         |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| 3 PLACES                                                     | ± ---      | ± ---                                                                                                                         |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| 2 PLACES                                                     | ± 0.25     | ± ---                                                                                                                         |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| 1 PLACE                                                      | ± 0.25     | ± ---                                                                                                                         |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| ANGULAR ± 3 °                                                |            |                                                                                                                               |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| DRAWN BY                                                     | DATE       |                                                                                                                               |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| TOM                                                          | 2005/03/22 |                                                                                                                               |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| CHECKED BY                                                   | DATE       |                                                                                                                               |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| ALL IN                                                       | 2005/03/22 |                                                                                                                               |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| APPROVED BY                                                  | DATE       |                                                                                                                               |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| WWSCHANG                                                     | 2005/03/22 |                                                                                                                               |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS   |            | MATERIAL NO.<br>SEE TABLE                                                                                                     |  | DOCUMENT NO.<br>SD-87715-206 |                                                  | SHEET NO.<br>1 OF 2                                                                                                                                                                                                                                                                                                           |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |
| SIZE<br>A4                                                   |            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                              |                                                  |                                                                                                                                                                                                                                                                                                                               |  |  |                            |    |       |                        |                           |       |          |       |       |          |        |       |         |        |       |               |  |  |                                                                                                                                                                                                                                                                           |  |          |      |     |            |            |      |        |            |             |      |          |            |                                                                                              |  |



CHAMFER EDGES MUST BE FREE OF CUTTING BURRS.

|                                                                                 |                                        |                    |                                   |                                                                                                                                  |        |                            |                                                            |                    |                                                                                 |                              |                     |  |
|---------------------------------------------------------------------------------|----------------------------------------|--------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------|------------------------------|---------------------|--|
| SEE SHEET 1<br>EC NO: SH2006-0100<br>DRWN:ALL IN<br>CHKD:<br>APPR:WWSCHANG<br>B | 2006/05/15<br>2006/05/15<br>2006/05/16 | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                            |        | DIMENSION STYLE<br>MM ONLY |                                                            | SCALE<br>1:1       | DESIGN UNITS<br>METRIC                                                          | THIRD ANGLE<br>PROJECTION    |                     |  |
|                                                                                 |                                        |                    |                                   |                                                                                                                                  | mm     | INCH                       | DRAWN BY<br>TOM                                            | DATE<br>2005/03/22 | TITLE<br>1.0 EDGE CARD 280 CKT<br>VERTICAL DIP CONNECTOR<br>(LEAD FREE VERSION) |                              |                     |  |
|                                                                                 |                                        |                    |                                   | 4 PLACES                                                                                                                         | ± ---  | ± ---                      | CHECKED BY<br>ALL IN                                       | DATE<br>2005/03/22 |                                                                                 |                              |                     |  |
|                                                                                 |                                        |                    |                                   | 3 PLACES                                                                                                                         | ± ---  | ± ---                      | APPROVED BY<br>WWSCHANG                                    | DATE<br>2005/03/22 | MOLEX<br>MOLEX INCORPORATED                                                     |                              |                     |  |
|                                                                                 |                                        |                    |                                   | 2 PLACES                                                                                                                         | ± 0.25 | ± ---                      | MATERIAL NO.<br>SEE TABLE                                  |                    |                                                                                 | DOCUMENT NO.<br>SD-87715-206 | SHEET NO.<br>2 OF 2 |  |
|                                                                                 |                                        |                    |                                   | 1 PLACE                                                                                                                          | ± 0.25 | ± ---                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                    |                                                                                 |                              |                     |  |
|                                                                                 |                                        |                    |                                   | ANGULAR ± 3 °                                                                                                                    |        |                            |                                                            |                    |                                                                                 |                              |                     |  |
|                                                                                 |                                        |                    |                                   |                                                                                                                                  |        |                            |                                                            |                    |                                                                                 |                              |                     |  |
|                                                                                 |                                        |                    |                                   |                                                                                                                                  |        |                            |                                                            |                    |                                                                                 |                              |                     |  |
|                                                                                 |                                        |                    |                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                                                            |                    |                                                                                 |                              |                     |  |

## Данный компонент на территории Российской Федерации

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

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