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Part Number:

0877153916

Status:

Active

Overview:

Description:

1.00mm (.039") Pitch, PCI Express\* Connector, 280 Circuits, Nylon 4/6 Glass-filled, Black Housing, Phosphor Bronze, 0.76µm (30µ") 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)      | 30                              |
| Plating min: Mating (µm)       | 0.76                            |
| 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                 |
| Solder Process Data            |                                 |
| Lead-free Process Capability   | Wave Capable (TH only)          |
| Process Temperature max. C     | 260                             |
| Material Info                  |                                 |
| Reference - Drawing Numbers    |                                 |
| Packaging Specification        | PK-87715-206                    |
| Product Specification          | PS-87715-206                    |

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](#)

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87715Series

Mates With

PCI Express Card

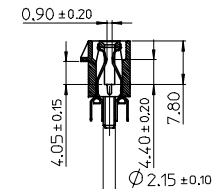
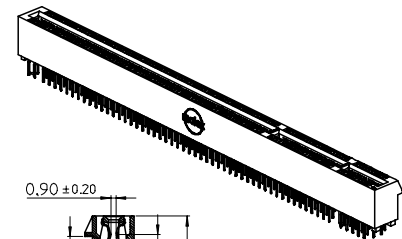
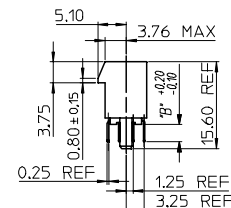
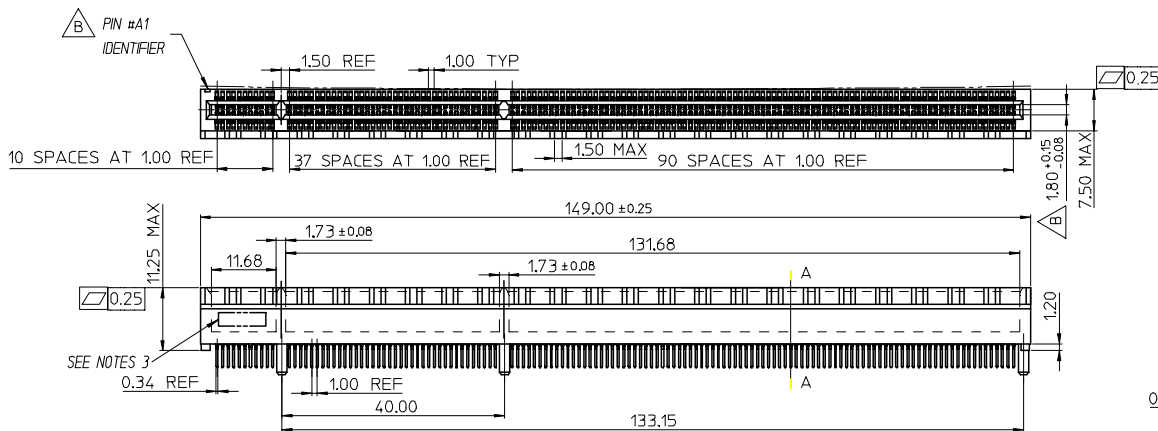
Sales Drawing  
Test Summary

SD-87715-206  
TS-87715-206

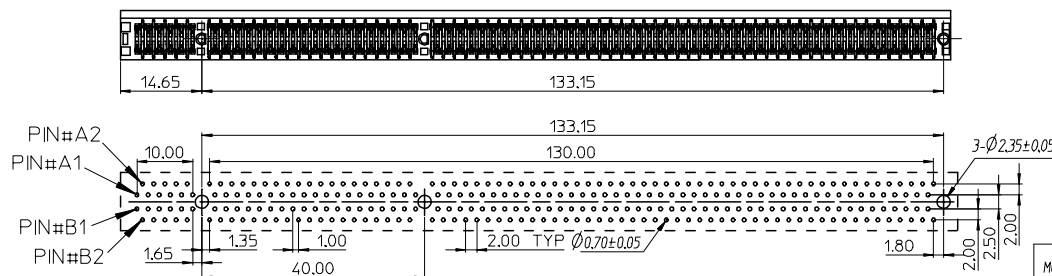
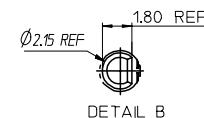
\* PCI Express is a registered trademark of PCI-SIG®

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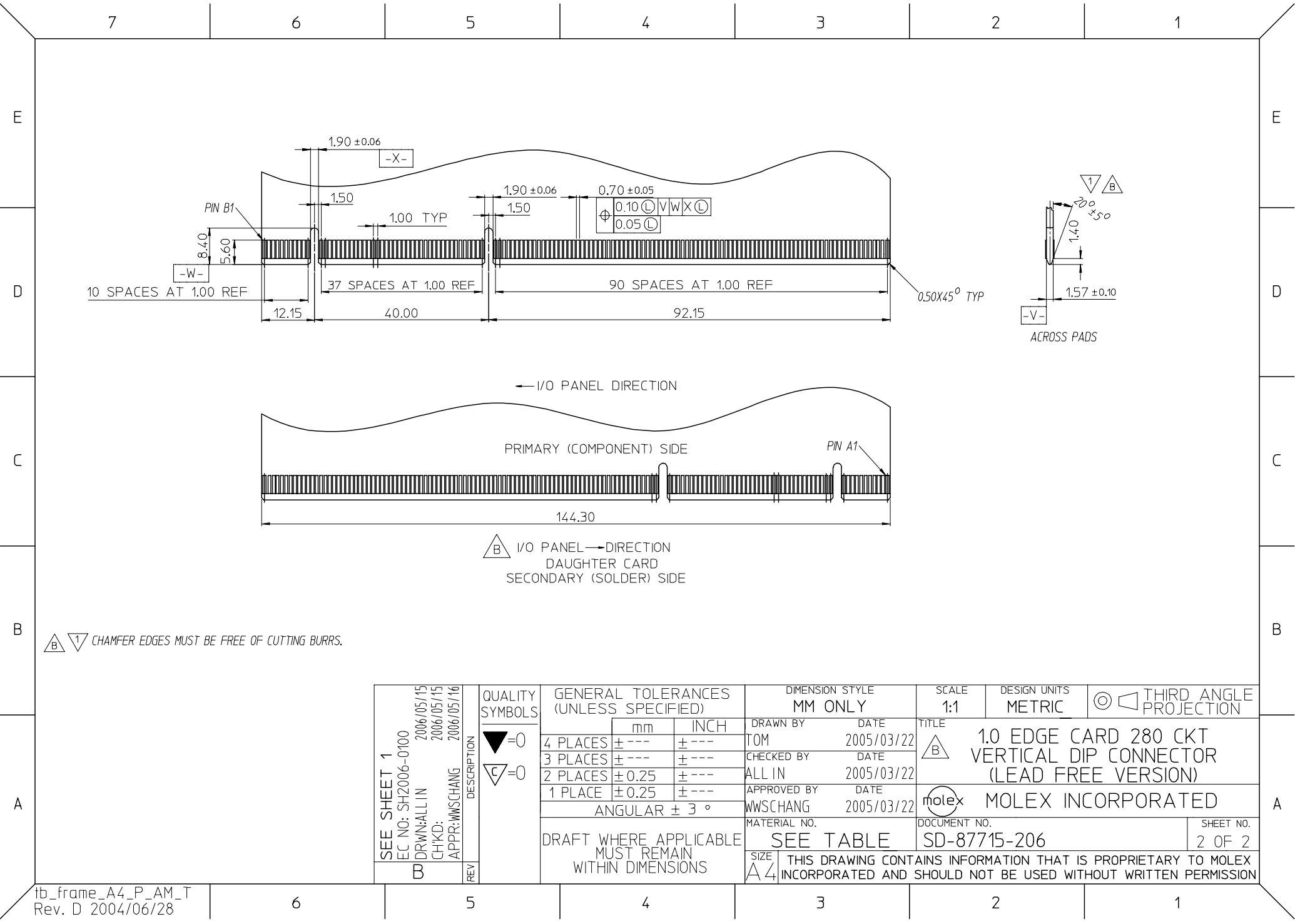
SECTION A-A



- 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 MICRONICH TIN OVER 50 MICRONICH NICKEL OVERALL | 3.00   |
| 87715-3915 | 280          | NYLON 46         | BLACK         | PHOSPHOR BRONZE   | 15 MICRONICH    | 100 MICRONICH TIN OVER 50 MICRONICH NICKEL OVERALL | 3.00   |
| 87715-3916 | 280          | NYLON 46         | BLACK         | PHOSPHOR BRONZE   | 30 MICRONICH    | 100 MICRONICH TIN OVER 50 MICRONICH NICKEL OVERALL | 3.00   |
| 87715-3917 | 280          | NYLON 46         | BLACK         | PHOSPHOR BRONZE   | GOLD FLASH      | 100 MICRONICH TIN OVER 50 MICRONICH NICKEL OVERALL | 2.54   |
| 87715-3918 | 280          | NYLON 46         | BLACK         | PHOSPHOR BRONZE   | 15 MICRONICH    | 100 MICRONICH TIN OVER 50 MICRONICH NICKEL OVERALL | 2.54   |
| 87715-3919 | 280          | NYLON 46         | BLACK         | PHOSPHOR BRONZE   | 30 MICRONICH    | 100 MICRONICH TIN OVER 50 MICRONICH 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><br>=0<br>=0                                                                                                 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM ONLY |            | SCALE        | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |                                                                        |           |
| DRWN:ALL IN                                                  |  | CHKD:                                  |  |                    |                                                                                                                                 | mm                                                         |        | INCH                       |            | DRAWN BY     | DATE                   | TITLE                     | 1.0 EDGE CARD 280 CKT<br>VERTICAL DIP CONNECTOR<br>(LEAD FREE VERSION) |           |
| APPR:WWSCHANG                                                |  |                                        |  |                    |                                                                                                                                 | 4 PLACES                                                   | ± ---  | ± ---                      | TOM        | 2005/03/22   |                        |                           |                                                                        |           |
|                                                              |  |                                        |  |                    |                                                                                                                                 | 3 PLACES                                                   | ± ---  | ± ---                      | CHECKED BY | DATE         |                        |                           |                                                                        |           |
|                                                              |  |                                        |  |                    |                                                                                                                                 | 2 PLACES                                                   | ± 0.25 | ± ---                      | ALL IN     | 2005/03/22   |                        |                           |                                                                        |           |
|                                                              |  |                                        |  |                    |                                                                                                                                 |                                                            |        |                            |            | APPROVED BY  | DATE                   |                           | MOLEX INCORPORATED                                                     |           |
|                                                              |  |                                        |  |                    |                                                                                                                                 | ANGULAR ± 3 °                                              |        | WWSCHANG                   |            | 2005/03/22   |                        |                           |                                                                        |           |
|                                                              |  |                                        |  |                    |                                                                                                                                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | MATERIAL NO.               |            | DOCUMENT NO. |                        |                           |                                                                        | SHEET NO. |
|                                                              |  |                                        |  |                    |                                                                                                                                 |                                                            |        | SEE TABLE                  |            | SD-87715-206 |                        |                           |                                                                        | 1 OF 2    |
|                                                              |  |                                        |  | SIZE<br>A 4        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOTBE 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 | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><div>▽=0</div> <div>▽C=0</div> | 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><div>B</div><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 INCORPORATED                                                                                                               |                           |  |
|                                                                            |                    |                                                   | 2 PLACES                              | ± 0.25 | ± ---                      | MATERIAL NO.<br>SEE TABLE                                  | DOCUMENT NO.<br>SD-87715-206 |                                                                                                                                  |                           |  |
|                                                                            |                    |                                                   | 1 PLACE                               | ± 0.25 | ± ---                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                              |                                                                                                                                  | SHEET NO.<br>2 OF 2       |  |
|                                                                            |                    |                                                   |                                       |        |                            |                                                            | SIZE<br>A4                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                           |  |



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- Консультации по применению компонента;
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- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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