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Part Number:

0877153918

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, 2.54mm (.100") 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)            | 0.100 In                        |
| PC Tail Length (mm)            | 2.54 mm                         |
| PCB Locator                    | Yes                             |
| PCB Retention                  | Yes                             |
| PCB Thickness Recommended (in) | 0.062 In                        |
| PCB Thickness Recommended (mm) | 1.60 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                 |
| 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](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

87715Series

Mates With

PCI Express Card

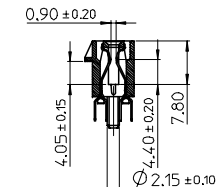
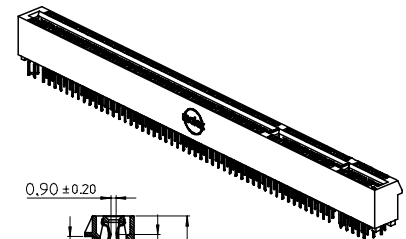
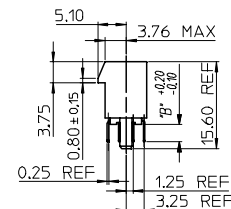
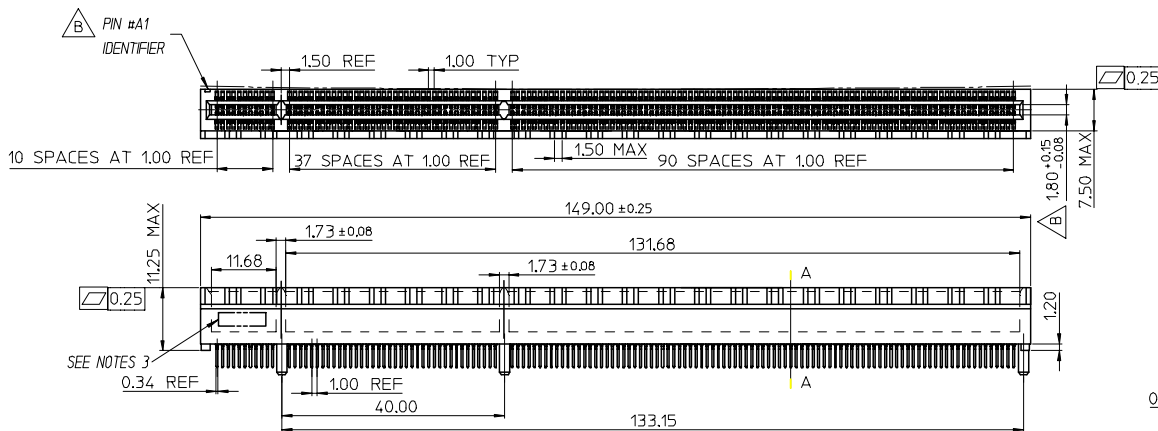
Sales Drawing  
Test Summary

SD-87715-206  
TS-87715-206

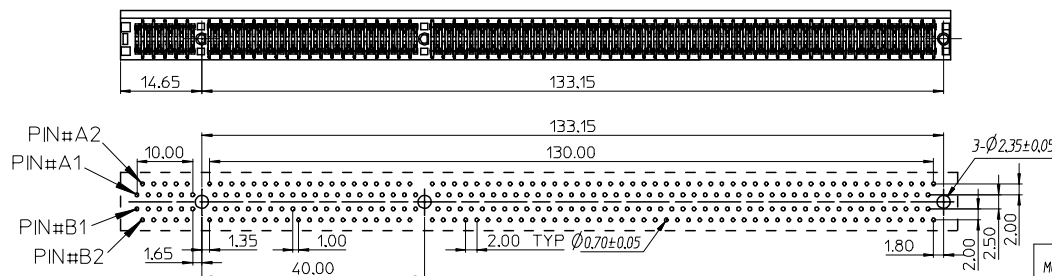
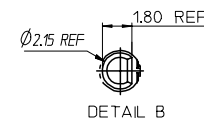
\* PCI Express is a registered trademark of PCI-SIG®

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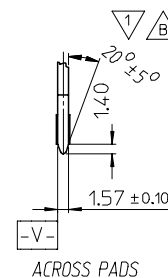
SECTION A-A



- 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 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                |  |                    |                                                  |                                                            |        |       |                            |                                                                                                                                  |              |                        | TITLE<br>1.0 EDGE CARD 280 CKT<br>VERTICAL DIP CONNECTOR<br>(LEAD FREE VERSION)<br><div>MOLEX</div> MOLEX INCORPORATED |  |  |
|                                                              |  |                                        |  |                    |                                                  | 4 PLACES                                                   | ± ---  | ± --- | DRAWN BY<br>TOM            | DATE<br>2005/03/22                                                                                                               |              |                        |                                                                                                                        |  |  |
|                                                              |  |                                        |  |                    |                                                  | 3 PLACES                                                   | ± ---  | ± --- | CHECKED BY                 | DATE                                                                                                                             |              |                        |                                                                                                                        |  |  |
|                                                              |  |                                        |  |                    |                                                  | 2 PLACES                                                   | ± 0.25 | ± --- | ALL IN                     | 2005/03/22                                                                                                                       |              |                        |                                                                                                                        |  |  |
|                                                              |  |                                        |  |                    |                                                  | 1 PLACE                                                    | ± 0.25 | ± --- | APPROVED BY<br>WWSCHANG    | DATE<br>2005/03/22                                                                                                               |              |                        |                                                                                                                        |  |  |
|                                                              |  |                                        |  |                    |                                                  | ANGULAR ± 3 °                                              |        |       | MATERIAL NO.               |                                                                                                                                  | DOCUMENT NO. |                        | SHEET NO.                                                                                                              |  |  |
|                                                              |  |                                        |  |                    |                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |       | 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 NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |                                                                                                                        |  |  |



ib\_frame\_A4\_P\_AM\_T  
Rev. D 2004/06/28



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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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