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**Part Number:** [0736590004](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Backplane Power Module, Vertical, SMC, Power Receptacle, 12 Circuits, Gold (Au) 0.76µm (30µ")

**Documents:**  
[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Drawing \(PDF\)](#)

| General                        |                                |
|--------------------------------|--------------------------------|
| Product Family                 | Backplane Connectors           |
| Series                         | <a href="#">73659</a>          |
| Application                    | Backplane                      |
| Comments                       | Midplane Power Module          |
| Component Type                 | Power Header                   |
| Overview                       | <a href="#">hdm</a>            |
| Product Name                   | HDM®                           |
| Style                          | N/A                            |
| Physical                       |                                |
| Circuits (Loaded)              | 12                             |
| Circuits (maximum)             | 12                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 250                            |
| First Mate / Last Break        | No                             |
| Guide to Mating Part           | No                             |
| Keying to Mating Part          | None                           |
| Material - Metal               | Beryllium Copper               |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Columns              | 1                              |
| Number of Pairs                | Open Pin Field                 |
| Number of Rows                 | 3                              |
| Orientation                    | Vertical                       |
| PC Tail Length (in)            | 0.138 In                       |
| PC Tail Length (mm)            | 3.50 mm                        |
| PCB Locator                    | No                             |
| PCB Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.098 In                       |
| PCB Thickness Recommended (mm) | 2.50 mm                        |
| Packaging Type                 | Tube                           |
| Pitch - Mating Interface (in)  | 0.079 In                       |
| Pitch - Mating Interface (mm)  | 2.00 mm                        |
| Pitch - Term. Interface (in)   | 0.079 In                       |
| Pitch - Term. Interface (mm)   | 2.00 mm                        |
| Plating min: Mating (µin)      | 30                             |
| Plating min: Mating (µm)       | 0.75                           |
| Plating min: Termination (µin) | 150                            |
| Plating min: Termination (µm)  | 3.75                           |
| Polarized to PCB               | No                             |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -55°C to +105°C                |
| Termination Interface: Style   | Through Hole                   |

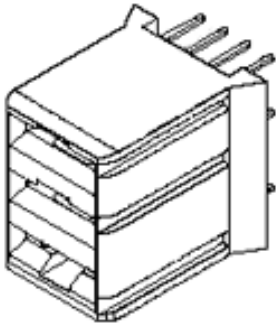


image - Reference only

Series

**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Not Reviewed**



**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**  
[73659Series](#)

**Mates With**  
[73651](#) HDM® Board-to-Board Daughterboard Power Module

**Electrical**

|                               |          |
|-------------------------------|----------|
| Current - Maximum per Contact | 15A      |
| Data Rate                     | 1.0 Gbps |
| Real Signals (per 25mm)       | 38       |
| Shielded                      | Yes      |
| Voltage - Maximum             | 500V AC  |

**Solder Process Data**

|                                                |                           |
|------------------------------------------------|---------------------------|
| Duration at Max. Process Temperature (seconds) | 40                        |
| Lead-free Process Capability                   | Reflow Capable (SMT only) |
| Max. Cycles at Max. Process Temperature        | 3                         |
| Process Temperature max. C                     | 260                       |

**Material Info**

**Reference - Drawing Numbers**

|                         |                |
|-------------------------|----------------|
| Packaging Specification | PK-70873-0819  |
| Sales Drawing           | SDA-73659-000* |

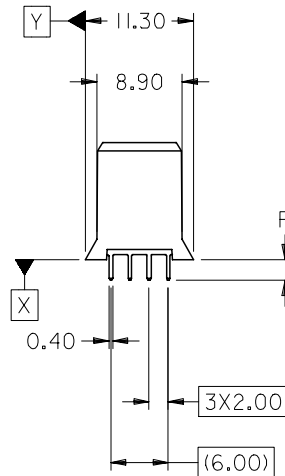
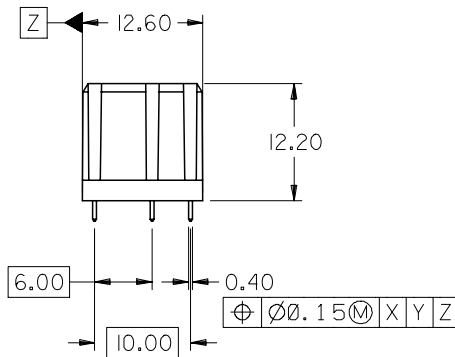
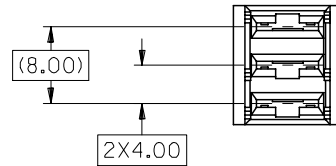
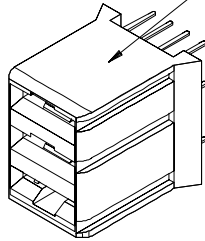
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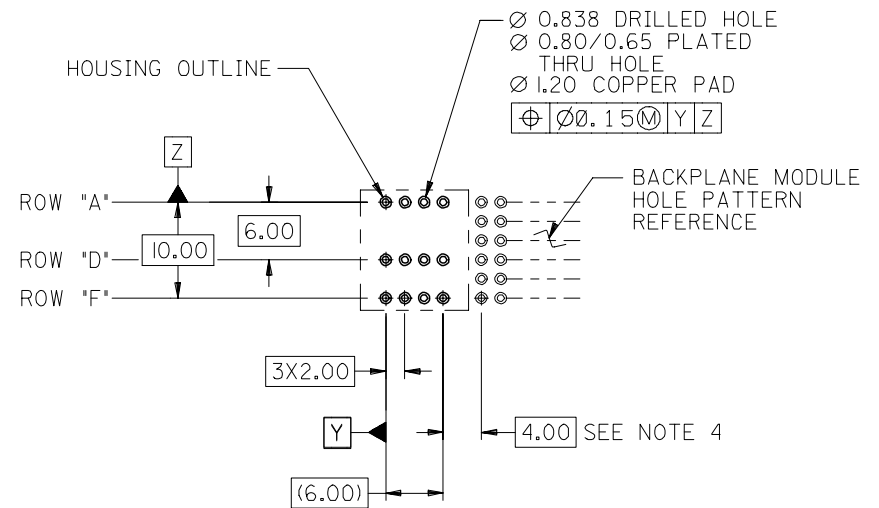
| MATERIAL NUMBER | DIM "P" $\pm 0.25$ |
|-----------------|--------------------|
| 73659-0001      | 2.00               |
| 73659-0002      | 2.50               |
| 73659-0003      | 3.00               |
| 73659-0004      | 3.50               |

DATE CODE AND  
PART NUMBER ON  
THIS SURFACE OR  
SURFACE OPPOSITE.



## NOTES:

1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0, COLOR: BLACK  
TERMINAL - BERYLLIUM COPPER
2. FINISH:  
0.75 MICROMETERS MINIMUM SELECTIVE GOLD (Au) IN MATING AREA  
2.50 MICROMETERS MINIMUM SELECTIVE TIN (Sn) IN TAIL AREA  
NICKEL (Ni) UNDERPLATE OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-73670-9999.
4. THIS DIMENSION MUST BE A MULTIPLE OF 4.00mm.
5. DIMENSION ARE IN MILLIMETERS.



PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS: 1.57 MIN

|                                                                                                                                                             |                                   |                                          |                                                                                                                                  |            |              |              |                                                                                                                 |                                                                                                          |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------|--------------|--------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------|
| MODIFY FINISH<br>EC NO: UCP2007-2259<br>2007/03/13<br>DRWN:MSI BARRA<br>2007/03/21<br>CHKD:BBARKER<br>APPR:SMILLER<br>2007/03/22<br>DESCRIPTION<br>REV<br>C | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) | DIMENSION STYLE                                                                                                                  |            | SCALE        | DESIGN UNITS |  THIRD ANGLE<br>PROJECTION |                                                                                                          |            |
|                                                                                                                                                             |                                   |                                          | MM ONLY                                                                                                                          |            | 2:1          | METRIC       |                                                                                                                 |                                                                                                          |            |
|                                                                                                                                                             |                                   |                                          | mm                                                                                                                               | INCH       | DRAWN BY     | DATE         |                                                                                                                 | SALES ASSY HDM BACKPLANE<br>POWER MODULE WITH<br>SOLDER TAILS                                            |            |
|                                                                                                                                                             |                                   |                                          | 4 PLACES                                                                                                                         | ± ---      | ± ---        | REED         |                                                                                                                 |                                                                                                          | 1996/12/10 |
|                                                                                                                                                             |                                   |                                          | 3 PLACES                                                                                                                         | ± ---      | ± ---        | CHECKED BY   |                                                                                                                 |                                                                                                          | DATE       |
| 2 PLACES                                                                                                                                                    | ± 0.10                            | ± ---                                    | BINGHAM                                                                                                                          | 1996/12/10 |              |              |                                                                                                                 |                                                                                                          |            |
|                                                                                                                                                             |                                   |                                          | 1 PLACE                                                                                                                          | ± 0.25     | ± ---        | APPROVED BY  | DATE                                                                                                            |  MOLEX INCORPORATED |            |
|                                                                                                                                                             |                                   |                                          | ANGULAR ±1/2°                                                                                                                    |            | BIXLER       | 1996/12/10   |                                                                                                                 |                                                                                                          |            |
|                                                                                                                                                             |                                   |                                          | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |            | MATERIAL NO. | DOCUMENT NO. | SHEET NO.                                                                                                       |                                                                                                          |            |
|                                                                                                                                                             |                                   |                                          | SIZE<br>B                                                                                                                        |            | SEE TABLE    |              | SDA-73659-000*                                                                                                  | 1 OF 1                                                                                                   |            |
|                                                                                                                                                             |                                   |                                          | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |            |              |              |                                                                                                                 |                                                                                                          |            |

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
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- Работу по проектам и поставку образцов.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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