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Part Number:

0739427000

Status:

Active

Overview:

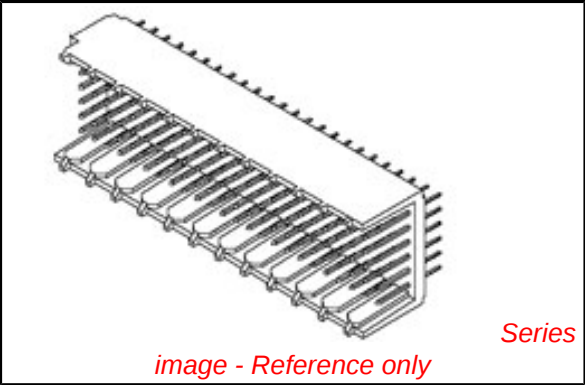
[hdm](#)

Description:

2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, Solder Tail, Open End, 144 Circuits

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Documents:                    |                                                      |
| <a href="#">3D Model</a>      | <a href="#">RoHS Certificate of Compliance (PDF)</a> |
| <a href="#">Drawing (PDF)</a> |                                                      |

|                                |                                |
|--------------------------------|--------------------------------|
| Agency Certification           |                                |
| CSA                            | LR19980                        |
| UL                             | E29179                         |
| General                        |                                |
| Product Family                 | Backplane Connectors           |
| Series                         | <a href="#">73942</a>          |
| Application                    | Backplane                      |
| Comments                       | Solder Tail                    |
| Component Type                 | PCB Header                     |
| Overview                       | <a href="#">hdm</a>            |
| Product Name                   | HDM®                           |
| Style                          | N/A                            |
| Physical                       |                                |
| Circuits (Loaded)              | 144                            |
| Circuits (maximum)             | 144                            |
| Color - Resin                  | Black, Natural                 |
| Durability (mating cycles max) | 250                            |
| First Mate / Last Break        | No                             |
| Flammability                   | 94V-0                          |
| Guide to Mating Part           | No                             |
| Keying to Mating Part          | None                           |
| Material - Metal               | Phosphor Bronze                |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Columns              | 24                             |
| Number of Pairs                | Open Pin Field                 |
| Number of Rows                 | 6                              |
| Orientation                    | Vertical                       |
| PC Tail Length (in)            | 0.138 In                       |
| PC Tail Length (mm)            | 3.50 mm                        |
| PCB Retention                  | None                           |
| 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                        |
| Plating min: Mating (µin)      | 30                             |
| Plating min: Mating (µm)       | 0.75                           |
| Plating min: Termination (µin) | 100                            |
| Plating min: Termination (µm)  | 2.5                            |
| Stackable                      | Yes                            |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -55°C to +105°C                |



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

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

[73942Series](#)

Mates With

[73632](#) HDM PLUS® Board-to-Board Daughtercard Receptacle. [73780](#) HDM® Board-to-Board Daughtercard Receptacle

Application Tooling | FAQ

Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global

| Description      | Product #                  |
|------------------|----------------------------|
| HDM® Backplane   | <a href="#">0621001400</a> |
| Insertion Signal |                            |
| Contact Tool     |                            |
| Extraction Tool  | <a href="#">0621001000</a> |

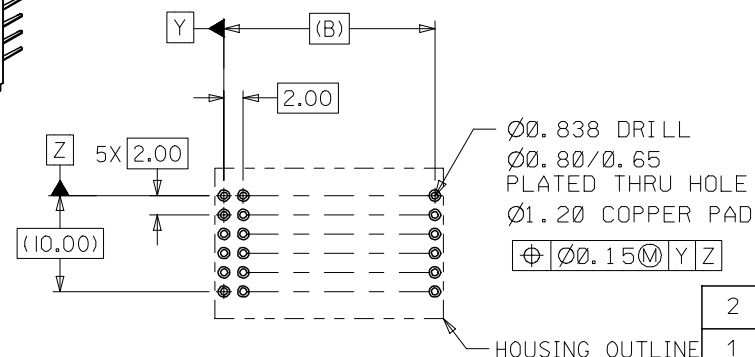
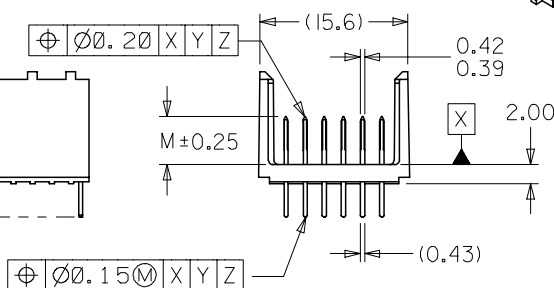
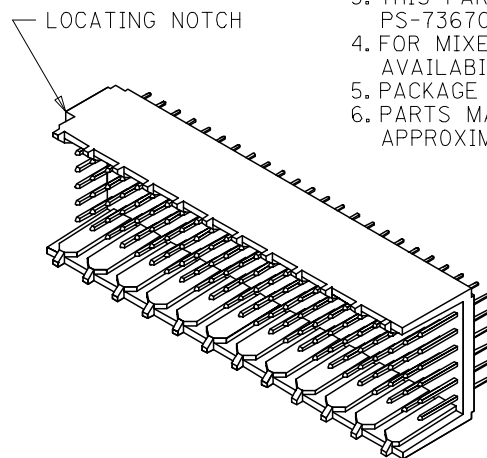
|                                                |                              |
|------------------------------------------------|------------------------------|
| Termination Interface: Style                   | Through Hole                 |
| <b>Electrical</b>                              |                              |
| Current - Maximum per Contact                  | 1A                           |
| Data Rate                                      | 1.0 Gbps                     |
| Voltage - Maximum                              | 250V AC                      |
| <b>Solder Process Data</b>                     |                              |
| Duration at Max. Process Temperature (seconds) | 40                           |
| Lead-free Process Capability                   | SMC & Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 3                            |
| Process Temperature max. C                     | 260                          |
| <b>Material Info</b>                           |                              |
| <b>Reference - Drawing Numbers</b>             |                              |
| Packaging Specification                        | PK-70873-0818                |
| Sales Drawing                                  | SD-73942-001                 |

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1. MATERIALS: HOUSING--LIQUID CRYSTAL POLYMER (LCP), GLASS FILLED,  
UL94V-0, COLOR: BLACK,  
TERMINAL: PHOSPHOR BRONZE.
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. FOR MIXED CONTACT MATING LENGTHS, CONSULT FACTORY FOR  
AVAILABILITY.
5. PACKAGE PER PK-70873-0818.
6. PARTS MARKED WITH PART NUMBER AND DATE CODE, ON EITHER SIDE,  
APPROXIMATELY WHERE SHOWN.



PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS: 2.50 MIN.

|   |     |     |
|---|-----|-----|
|   | 2   | A   |
| E | 1   | G   |
|   | SHT | REV |

- SEE NOTE 6

|                                                                                                                                    |                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                        |                                                                             |              |       |           |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------|-------|-----------|-------|-------|----------|-------|-------|----------|--------|-------|---------|--------|-------|---------------|--|--|----------------------------|--|--------------|------------------------|---------------------------|
| MODIFY FINISH NOTE<br>EC NO: UCP2007-2259<br>DRAWN BY: IBARRA 2007/03/13<br>CHK'D BY: BARKER 2007/03/21<br>APPR: MILLER 2007/03/22 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0                                                                                             | GENERAL TOLERANCES (UNLESS SPECIFIED)<br><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>± 0.05</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± 0.10</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ±1/2°</td></tr></table> |                                                                             | mm           | INCH  | 4 PLACES  | ± --- | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± 0.05 | ± --- | 1 PLACE | ± 0.10 | ± --- | ANGULAR ±1/2° |  |  | DIMENSION STYLE<br>MM ONLY |  | SCALE<br>2:1 | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |
|                                                                                                                                    |                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                        |                                                                             | mm           | INCH  |           |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |
|                                                                                                                                    |                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                        | 4 PLACES                                                                    | ± ---        | ± --- |           |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |
|                                                                                                                                    |                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                        | 3 PLACES                                                                    | ± ---        | ± --- |           |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |
|                                                                                                                                    |                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                        | 2 PLACES                                                                    | ± 0.05       | ± --- |           |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |
| 1 PLACE                                                                                                                            | ± 0.10                                                                                                                        | ± ---                                                                                                                                                                                                                                                                                                                                                                  |                                                                             |              |       |           |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |
| ANGULAR ±1/2°                                                                                                                      |                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                        |                                                                             |              |       |           |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |
| DRAWN BY<br>JB INGHAM                                                                                                              |                                                                                                                               | DATE<br>1998/01/13                                                                                                                                                                                                                                                                                                                                                     | TITLE<br>SALES ASSY HDM BACKPLANE<br>OPEN END OPTION<br>SOLDER TAIL VERSION |              |       |           |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |
| CHECKED BY<br>SREED                                                                                                                |                                                                                                                               | DATE<br>1998/01/13                                                                                                                                                                                                                                                                                                                                                     |                                                                             |              |       |           |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |
| APPROVED BY<br>CB IXLER                                                                                                            |                                                                                                                               | DATE<br>1998/01/13                                                                                                                                                                                                                                                                                                                                                     |                                                                             |              |       |           |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |
| MATERIAL NO.                                                                                                                       |                                                                                                                               | DOCUMENT NO.                                                                                                                                                                                                                                                                                                                                                           |                                                                             |              |       | SHEET NO. |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                         |                                                                                                                               | SEE CHART                                                                                                                                                                                                                                                                                                                                                              |                                                                             | SD-73942-001 |       | 1 OF 2    |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |
| SIZE<br>B                                                                                                                          | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                                                                                                                                                                                                                                                                                        |                                                                             |              |       |           |       |       |          |       |       |          |        |       |         |        |       |               |  |  |                            |  |              |                        |                           |

MATERIAL NUMBER ASSIGNMENT

73942-\* \* 0 0

| NUMBER | CIRCUIT SIZE | DIM "A" | DIM "B" | DIM "H" |
|--------|--------------|---------|---------|---------|
| 0      | 72           | 23.84   | 22.00   | 2.0     |
| 1      | 144          | 47.84   | 46.00   | 2.0     |
| 2      | 72           | 23.84   | 22.00   | 2.5     |
| 3      | 144          | 47.84   | 46.00   | 2.5     |
| 4      | 72           | 23.84   | 22.00   | 3.0     |
| 5      | 144          | 47.84   | 46.00   | 3.0     |
| 6      | 72           | 23.84   | 22.00   | 3.5     |
| 7      | 144          | 47.84   | 46.00   | 3.5     |

| NUMBER | DIM "M" |
|--------|---------|
| 0      | 5.0     |
| 1      | 5.5     |
| 2      | 6.0     |

|                                                                                                          |                    |                                                   |                                                           |                                             |                                                                            |                                                                                      |                           |                              |  |                                                                                                                                   |                |
|----------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------|-----------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------|------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------|----------------|
| SEE SHEET 1<br>EC No. U81577<br>DRWN:JBINGHAM 98/0203<br>CHK: SREED 98/0203<br>APPR:CBIXLER 98/0203<br>A | DESCRIPTION<br>REV | QUALITY SYMBOLS<br>MAJOR<br>=0<br>CRITICAL<br>C=0 | GENERAL TOLERANCES:<br>(UNLESS SPECIFIED)                 |                                             | SCALE<br>--:--                                                             | DESIGN UNITS<br><input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH | THIRD ANGLE<br>PROJECTION | DIMENSIONS:                  |  | SHT                                                                                                                               | REV            |
|                                                                                                          |                    |                                                   | <input type="checkbox"/> mm <input type="checkbox"/> INCH | <input checked="" type="checkbox"/> mm ONLY | REVISE ON<br>CAD ONLY                                                      |                                                                                      |                           |                              |  |                                                                                                                                   |                |
|                                                                                                          |                    |                                                   | DRAWN BY & DATE<br>JBINGHAM 98/01/13                      |                                             | TITLE: SALES ASSY, HDM BACKPLANE<br>OPEN END OPTION<br>SOLDER TAIL VERSION |                                                                                      |                           | MATERIAL NO.<br>SD-73942-001 |  | DRAWING NO.<br>SD-73942-001                                                                                                       | SHEET NO.<br>2 |
|                                                                                                          |                    |                                                   | CHECKED BY & DATE<br>SREED 98/01/13                       |                                             | APPROVED BY & DATE<br>CBIXLER 98/01/13                                     |                                                                                      |                           | CAD FILENAME<br>S73942X2.DGN |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |                |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS                                                  |                    |                                                   | ANGULAR: ± °                                              |                                             |                                                                            |                                                                                      |                           |                              |  |                                                                                                                                   |                |

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

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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