

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0740611014

Status:

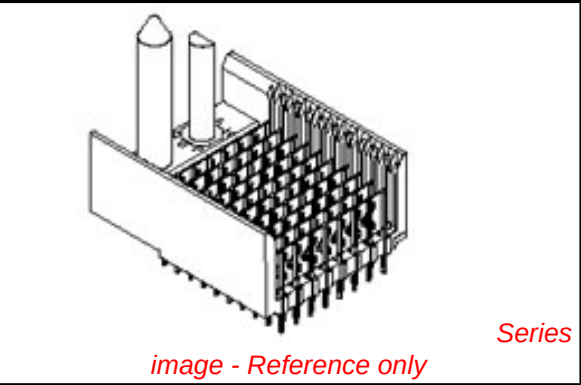
Active

Overview:

[vhdm](#)

Description:

2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Header, Vertical, 8-Row, Guide Pin Signal Module, Pin End Version, 80 Circuits, Pin Length 5.15mm (.203")



Documents:

[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

| General                        |                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------|
| Product Family                 | Backplane Connectors                                                            |
| Series                         | <a href="#">74061</a>                                                           |
| Application                    | Backplane                                                                       |
| Application Tooling Documents  | <a href="http://www.molex.com/pdm_docs/ats/TM-622010999.pdf">Tooling Manual</a> |
| Comments                       | Keying Position A                                                               |
| Component Type                 | PCB Header                                                                      |
| Overview                       | <a href="#">vhdm</a>                                                            |
| Product Name                   | VHDM®                                                                           |
| Style                          | N/A                                                                             |
| Physical                       |                                                                                 |
| Circuits (Loaded)              | 80                                                                              |
| Circuits (maximum)             | 80                                                                              |
| Color - Resin                  | Black                                                                           |
| Durability (mating cycles max) | 200                                                                             |
| First Mate / Last Break        | No                                                                              |
| Guide to Mating Part           | Yes                                                                             |
| Keying to Mating Part          | Yes                                                                             |
| Material - Metal               | Beryllium Copper, High Performance Alloy (HPA), Stainless Steel                 |
| Material - Plating Mating      | Gold                                                                            |
| Material - Plating Termination | Tin-Lead                                                                        |
| Material - Resin               | High Temperature Thermoplastic                                                  |
| Number of Columns              | N/A                                                                             |
| Number of Pairs                | Open Pin Field                                                                  |
| Number of Rows                 | 8                                                                               |
| Orientation                    | Vertical                                                                        |
| PC Tail Length (in)            | 0.098 In                                                                        |
| PC Tail Length (mm)            | 2.50 mm                                                                         |
| PCB Locator                    | No                                                                              |
| PCB Retention                  | None                                                                            |
| PCB Thickness Recommended (in) | 0.070 In                                                                        |
| PCB Thickness Recommended (mm) | 1.80 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) | 30                                                                              |
| Plating min: Termination (µm)  | 0.75                                                                            |
| Polarized to PCB               | Yes                                                                             |
| Stackable                      | No                                                                              |
| Surface Mount Compatible (SMC) | Yes                                                                             |

EU RoHS

Not 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

[74061Series](#)

Mates With

74040 VHDM® 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.

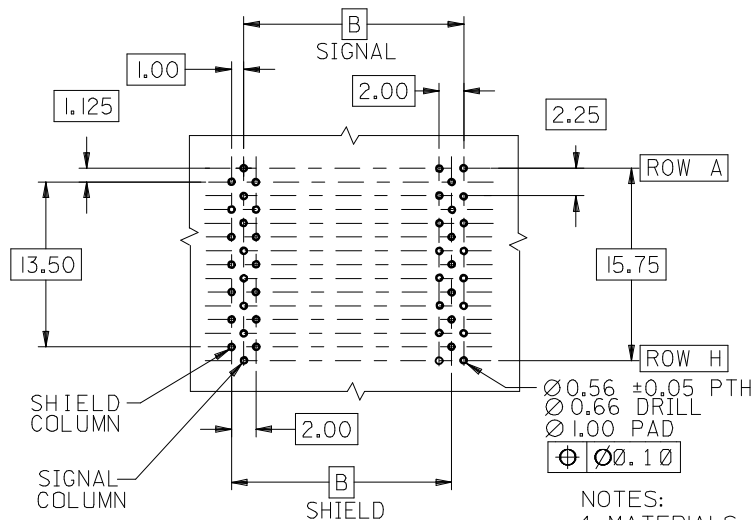
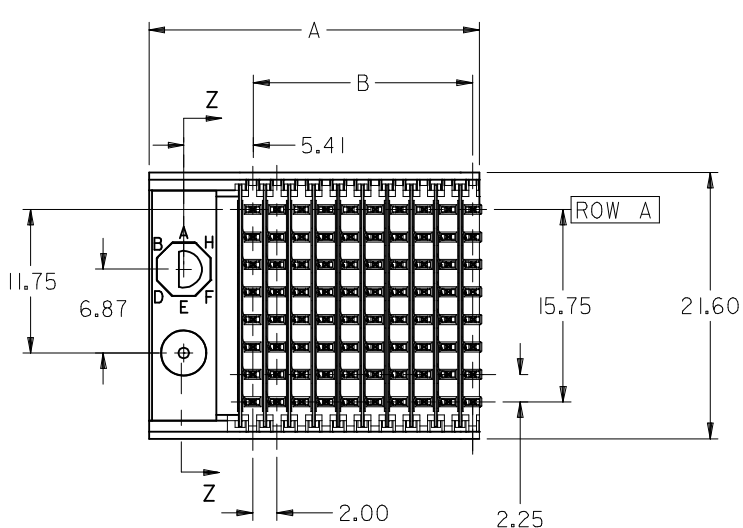
Global

| Description            | Product #                  |
|------------------------|----------------------------|
| VHDM® Signal Pin       | <a href="#">0622015700</a> |
| Insertor Repair Tool   |                            |
| VHDM® 8 Row Pin        | <a href="#">0622015900</a> |
| and Shield Repair Tool |                            |
| VHDM® 8 Row            | <a href="#">0622016100</a> |
| Shield Extraction Tool |                            |
| VHDM® Insertion        | <a href="#">0622020205</a> |
| Module for Advanced    |                            |

|                                                                          |                              |                                         |
|--------------------------------------------------------------------------|------------------------------|-----------------------------------------|
| Temperature Range - Operating                                            | 105°C max                    | Mate Signal Header,                     |
| Termination Interface: Style                                             | Through Hole - Compliant Pin | 8 Row by 10 Wide,                       |
| <b>Electrical</b>                                                        |                              | 20.00mm (.787")                         |
| Current - Maximum per Contact                                            | 1A                           | VHDM® Insertion <u>0622020209</u>       |
| Data Rate                                                                | 3.125 Gbps                   | Module for Standard                     |
| Real Signals (per 25mm)                                                  | 100                          | Shield Signal                           |
| Shield Type                                                              | Ground Plane Shield          | Header, 8 Row by                        |
| Shielded                                                                 | Yes                          | 10 Wide, 20.00mm                        |
| Voltage - Maximum                                                        | 120V AC (RMS)/DC             | (.787")                                 |
| <b>Material Info</b>                                                     |                              | Flat Rock Tooling for <u>0622013700</u> |
|                                                                          |                              | Pneumatic Press                         |
| <b>Reference - Drawing Numbers</b>                                       |                              |                                         |
| Sales Drawing                                                            | SD-74061-002                 |                                         |
| VHDM and Very High Density Metric are trademarks of Amphenol Corporation |                              |                                         |

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### BACKPLANE HOLE PATTERN RECOMMENDED DIMENSION

#### NOTES:

##### 1. MATERIALS:

HOUSING - LIQUID CRYSTAL POLYMER (LCP),  
GLASS-FILLED, UL 94V-0, COLOR: BLACK  
SIGNAL PIN & SHIELD - COPPER ALLOY

##### 2. FINISHES:

CONTACT AREA: SELECTIVE GOLD (Au)  
PCB TAILS: SELECTIVE TIN/LEAD (Sn/Pb)  
OR SELECTIVE MATTE TIN (Sn)  
NICKEL (Ni) OVERALL.

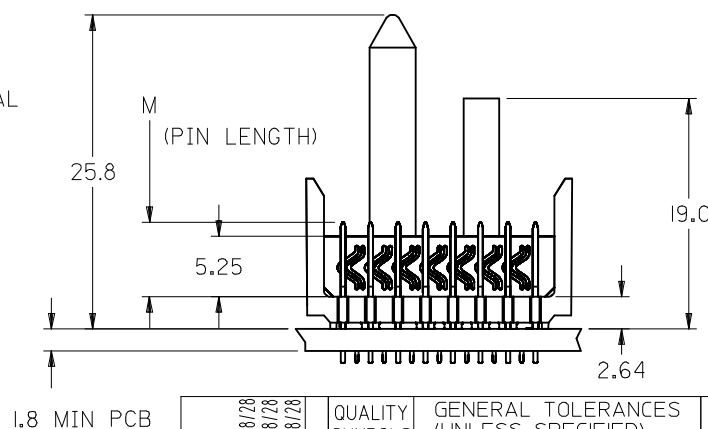
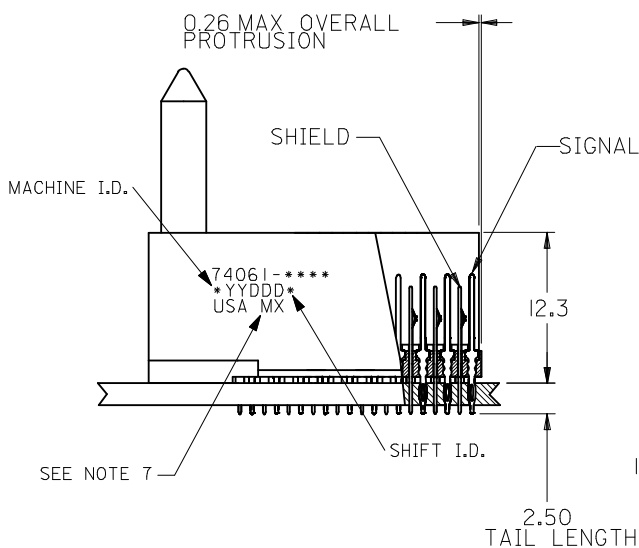
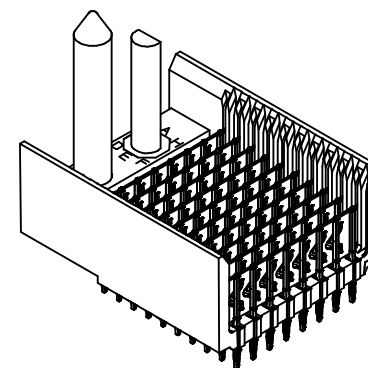
##### 3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-74031-999

##### 4. FOR MIXED CONTACT LENGTHS CONSULT MOLEX FOR AVAILABILITY

##### 5. FOR SPECIFIC MATERIAL NUMBERS & MATING INFORMATION REFER TO SHEET 2

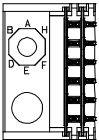
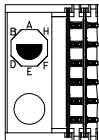
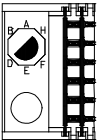
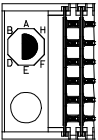
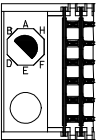
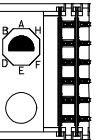
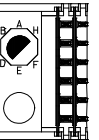
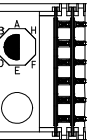
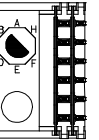
##### 6. PACKAGE PER PK-74061-003

##### 7. EITHER MARK PART WITH PART NUMBER & DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.



| <div>CORRECTED DIMS</div> <div>EC NO: UCP2008-0329</div> <div>DRWN: JONI AK 2007/08/28</div> <div>CHKD: JONI AK 2007/08/28</div> <div>APPR: CBIXLER 2007/08/28</div> |       |       | <div>DESCRIPTION</div> <div>REV</div> | <div>QUALITY SYMBOLS</div> <div>▽=0</div> <div>▽=0</div> | <div>GENERAL TOLERANCES (UNLESS SPECIFIED)</div> <table><thead><tr><th></th><th>mm</th><th>INCH</th></tr></thead><tbody><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>± ---</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ±1/2°</td></tr></tbody></table> <div>DRAFT WHERE APPLICABLE<br/>MUST REMAIN<br/>WITHIN DIMENSIONS</div> |  | mm | INCH | 4 PLACES | ± --- | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± --- | ± --- | 1 PLACE | ± --- | ± --- | ANGULAR ±1/2° |  |  | <div>DIMENSION STYLE</div> <div>MM ONLY</div> <div>DRAWN BY DATE</div> <div>MWANG 1998/11/09</div> <div>CHECKED BY DATE</div> <div>JLAURX 1998/11/09</div> <div>APPROVED BY DATE</div> <div>CBIXER 1998/11/09</div> <div>MATERIAL NO.</div> <div>SEE SHEET 2</div> <div>SIZE</div> <div>B</div> <div>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</div> | <div>SCALE</div> <div>2.5:1</div> <div>TITLE</div> <div>VHDM 8 ROW<br/>SIGNAL END BACKPLANE<br/>SALES ASSEMBLY</div> <div> MOLEX INCORPORATED</div> <div>DOCUMENT NO.</div> <div>SD-74061-002</div> | <div>DESIGN UNITS</div> <div>METRIC</div> <div> THIRD ANGLE<br/>PROJECTION</div> | <div>SHEET NO.</div> <div>1 OF 3</div> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|------|----------|-------|-------|----------|-------|-------|----------|-------|-------|---------|-------|-------|---------------|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|                                                                                                                                                                      | mm    | INCH  |                                       |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |    |      |          |       |       |          |       |       |          |       |       |         |       |       |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                       |                                        |
| 4 PLACES                                                                                                                                                             | ± --- | ± --- |                                       |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |    |      |          |       |       |          |       |       |          |       |       |         |       |       |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                       |                                        |
| 3 PLACES                                                                                                                                                             | ± --- | ± --- |                                       |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |    |      |          |       |       |          |       |       |          |       |       |         |       |       |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                       |                                        |
| 2 PLACES                                                                                                                                                             | ± --- | ± --- |                                       |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |    |      |          |       |       |          |       |       |          |       |       |         |       |       |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                       |                                        |
| 1 PLACE                                                                                                                                                              | ± --- | ± --- |                                       |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |    |      |          |       |       |          |       |       |          |       |       |         |       |       |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                       |                                        |
| ANGULAR ±1/2°                                                                                                                                                        |       |       |                                       |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |    |      |          |       |       |          |       |       |          |       |       |         |       |       |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                       |                                        |

F

| M/N<br>74061-( )          | -**0*                                                                             | -**1*                                                                             | -**2*                                                                             | -**3*                                                                             | -**4*                                                                              | -**5*                                                                               | -**6*                                                                               | -**7*                                                                               | -**8*                                                                               |
|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                           | O                                                                                 | A                                                                                 | B                                                                                 | C                                                                                 | D                                                                                  | E                                                                                   | F                                                                                   | G                                                                                   | H                                                                                   |
| KEYING PIN<br>ORIENTATION |  |  |  |  |  |  |  |  |  |

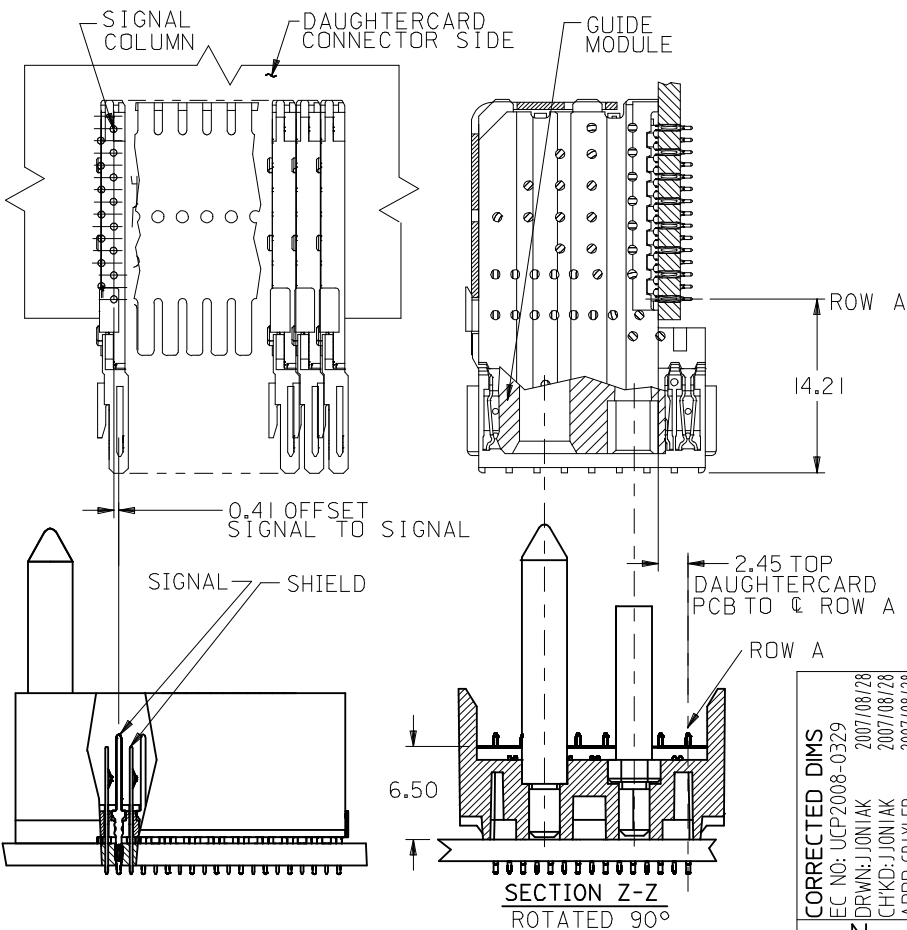
74061 - \* \* \* \*

NUMBER OF COLUMNS/PLATING  
 10 = 10 COLUMN TIN/LEAD  
 12 = 12 COLUMN TIN/LEAD\*  
 25 = 25 COLUMN TIN/LEAD  
 90 = 10 COLUMN MATTE TIN  
 92 = 12 COLUMN MATTE TIN\*  
 85 = 25 COLUMN MATTE TIN

CONTACT LOAD  
 (PIN LENGTH)  
 1 & 6 = 4.75  
 2 & 7 = 6.25  
 3 & 8 = 4.25  
 4 & 9 = 5.15

\*12 COLUMN P/N'S ON SHEET 3

E



| PART NUMBER | COLUMN | NUMBER OF SIGNAL | NUMBER OF PIN | NUMBER OF SHIELD | A     | B     | M    | Au (um) THICKNESS | Sn (um) THICKNESS |
|-------------|--------|------------------|---------------|------------------|-------|-------|------|-------------------|-------------------|
| 74061-0*1   | 10     | 80               | 10            | 10               | 27.00 | 18.00 | 4.75 | 0.76              | 0.76-1.52         |
| 74061-0*6   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-5*1   | 25     | 200              | 25            | 25               | 57.00 | 48.00 | 6.25 | 0.76              |                   |
| 74061-5*6   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-0*2   | 10     | 80               | 10            | 10               | 27.00 | 18.00 | 4.25 | 0.76              |                   |
| 74061-0*7   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-5*2   | 25     | 200              | 25            | 25               | 57.00 | 48.00 | 5.15 | 0.76              |                   |
| 74061-5*7   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-0*3   | 10     | 80               | 10            | 10               | 27.00 | 18.00 | 4.75 | 0.76              |                   |
| 74061-0*8   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-5*3   | 25     | 200              | 25            | 25               | 57.00 | 48.00 | 6.25 | 0.76              |                   |
| 74061-5*8   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-0*4   | 10     | 80               | 10            | 10               | 27.00 | 18.00 | 4.25 | 0.76              |                   |
| 74061-0*9   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-5*4   | 25     | 200              | 25            | 25               | 57.00 | 48.00 | 5.15 | 0.76              |                   |
| 74061-5*9   |        |                  |               |                  |       |       |      | 1.27              |                   |

B

A

|                                                                                                                                  |                               |                                                                                                                                                                  |                                                                                                                                                                   |                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
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|                                                                                                                                  |                               |                                                                                                                                                                  |                                                                                                                                                                   |                                                                                                                                                              |
|                                                                                                                                  |                               |                                                                                                                                                                  |                                                                                                                                                                   |                                                                                                                                                              |
|                                                                                                                                  |                               |                                                                                                                                                                  |                                                                                                                                                                   |                                                                                                                                                              |

DRAFT WHERE APPLICABLE  
 MUST REMAIN  
 WITHIN DIMENSIONS

SEE CHART

SIZE  
 B

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- 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.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- 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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[www.lifeelectronics.ru](http://www.lifeelectronics.ru)