

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0740582512

Status:

Active

Overview:

[vhdm](#)

Description:

2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Header, Vertical, 6-Row, Pin End Version, 150 Circuits, Pin Length 6.25mm (.246")

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

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

General

|                               |                                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------------------|
| Product Family                | Backplane Connectors                                                                                  |
| Series                        | <a href="#">74058</a>                                                                                 |
| Application                   | Backplane                                                                                             |
| Application Tooling Documents | <a href="http://www.molex.com/pdm_docs/ats/TM-622010999.pdf">TM-622010999.pdf</a> >Tooling Manual</a> |
| Comments                      | Keying Postion A                                                                                      |
| Component Type                | PCB Header                                                                                            |
| Overview                      | <a href="#">vhdm</a>                                                                                  |
| Product Name                  | VHDM®                                                                                                 |
| Style                         | N/A                                                                                                   |

Physical

|                                |                                                                 |
|--------------------------------|-----------------------------------------------------------------|
| Circuits (Loaded)              | 150                                                             |
| Circuits (maximum)             | 150                                                             |
| 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                 | 6                                                               |
| 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) | 0.071 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)   | 0.039 In                                                        |
| Pitch - Term. Interface (mm)   | 1.00 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                                                              |

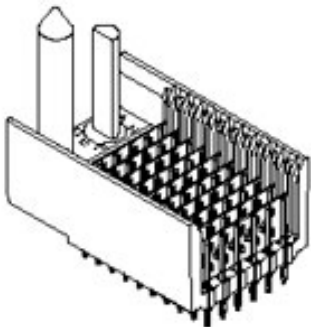


image - Reference only

Series

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Pb

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

74058Series

Mates With

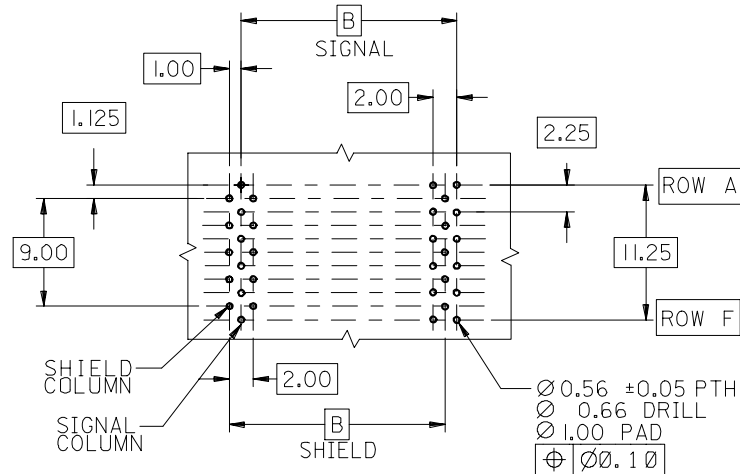
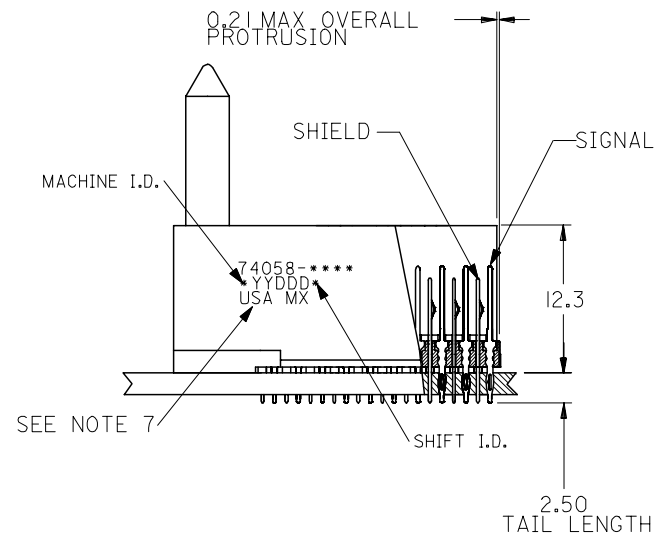
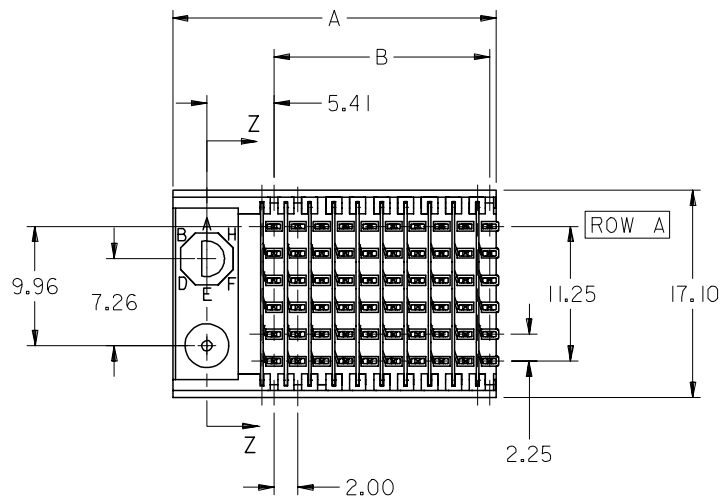
74030 VHDM® Board-to-Board Daughtercard Receptacle

| 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 #                  |
| Flat Rock Tooling for Pneumatic Press                                                                                                                                           | <a href="#">0622013700</a> |
| VHDM® Signal Pin                                                                                                                                                                | <a href="#">0622015700</a> |
| Insertor Repair Tool                                                                                                                                                            |                            |
| VHDM® 6 Row Pin and Shield Repair Tool                                                                                                                                          | <a href="#">0622015800</a> |

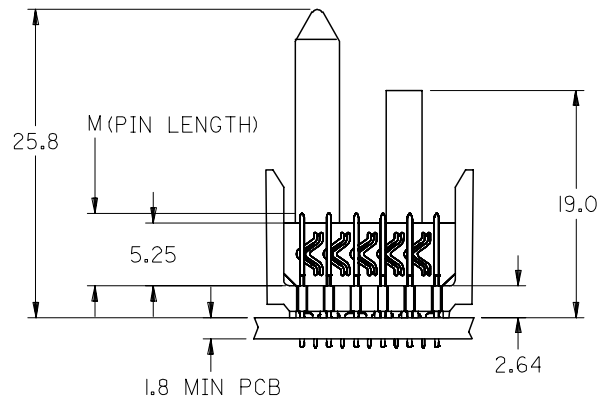
|                                                                          |                              |                                                                                             |                   |
|--------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------|-------------------|
| Surface Mount Compatible (SMC)                                           | Yes                          | VHDM® 6 Row Shield Extraction Tool                                                          | <u>0622016000</u> |
| Temperature Range - Operating                                            | 105°C                        | VHDM® Insertion Module for Advanced Mate Signal Header, 6 Row by 25 Wide, 50.00mm (1.97")   | <u>0622020204</u> |
| Termination Interface: Style                                             | Through Hole - Compliant Pin | VHDM® Insertion Module for Standard Shield Signal Header, 6 Row by 25 Wide, 50.00mm (1.97") | <u>0622020208</u> |
| <b>Electrical</b>                                                        |                              |                                                                                             |                   |
| Current - Maximum per Contact                                            | 1A                           |                                                                                             |                   |
| Data Rate                                                                | 3.125 Gbps                   |                                                                                             |                   |
| Real Signals (per 25mm)                                                  | 75                           |                                                                                             |                   |
| Shield Type                                                              | Ground Plane Shield          |                                                                                             |                   |
| Shielded                                                                 | Yes                          |                                                                                             |                   |
| Voltage - Maximum                                                        | 120V AC (RMS)/DC             |                                                                                             |                   |
| <b>Material Info</b>                                                     |                              |                                                                                             |                   |
| <b>Reference - Drawing Numbers</b>                                       |                              |                                                                                             |                   |
| Sales Drawing                                                            | SD-74058-002                 |                                                                                             |                   |
| VHDM and Very High Density Metric are trademarks of Amphenol Corporation |                              |                                                                                             |                   |

This document was generated on 05/19/2010

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

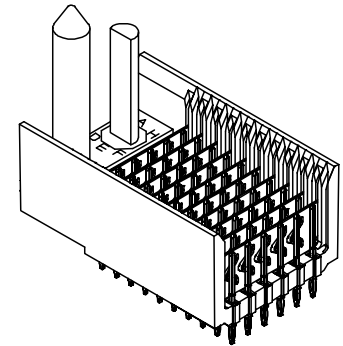


BACKPLANE HOLE PATTERN  
RECOMMENDED DIMENSIONS



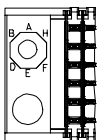
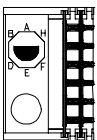
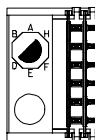
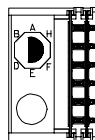
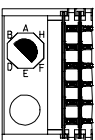
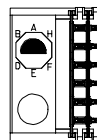
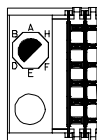
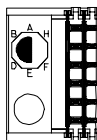
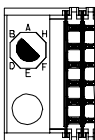
NOTES:

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-74058-003
7. EITHER MARK PART WITH PART NUMBER & DATE  
CODE APPROXIMATELY WHERE SHOWN OR PLACE  
LABEL ON THE TUBE.



|                                                                                                         |                                   |             |                                                            |       |                            |                      |                                                                                                                                  |                             |                                                                                                                 |                                                                   |                     |  |
|---------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|------------------------------------------------------------|-------|----------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------|--|
| ADD LEADFREE PINS<br>EC NO: UCP2006-0079<br>DRW: KIMULVEY<br>CHKD: 2005/07/21<br>APPR: SREED 2005/07/22 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       | DIMENSION STYLE<br>MM ONLY |                      | SCALE<br>2.5:1                                                                                                                   | DESIGN UNITS<br>METRIC      |  THIRD ANGLE<br>PROJECTION |                                                                   |                     |  |
|                                                                                                         |                                   |             |                                                            |       | mm                         | INCH                 | DRAWN BY<br>MWANG                                                                                                                | DATE<br>1998/11/09          |                                                                                                                 | TITLE<br><br>VHDM 6 ROW<br>SIGNAL END BACKPLANE<br>SALES ASSEMBLY |                     |  |
|                                                                                                         |                                   |             | 4 PLACES                                                   | ± --- | ± ---                      | CHECKED BY<br>JLAURX | DATE<br>1998/11/09                                                                                                               |                             |                                                                                                                 |                                                                   |                     |  |
|                                                                                                         |                                   |             | 3 PLACES                                                   | ± --- | ± ---                      | APPROVED BY          | DATE                                                                                                                             |                             |                                                                                                                 |                                                                   |                     |  |
|                                                                                                         |                                   |             | 2 PLACES                                                   | ± --- | ± ---                      | CBIXLER              | 1998/11/09                                                                                                                       |                             |                                                                                                                 |                                                                   |                     |  |
|                                                                                                         |                                   |             | 1 PLACE                                                    | ± --- | ± ---                      | ANGULAR ±1/2°        |                                                                                                                                  | MATERIAL NO.<br>SEE SHEET 2 |                                                                                                                 | DOCUMENT NO.<br>SD-74058-002                                      | SHEET NO.<br>1 OF 2 |  |
|                                                                                                         |                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SIZE<br>B                  |                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                             |                                                                                                                 |                                                                   |                     |  |

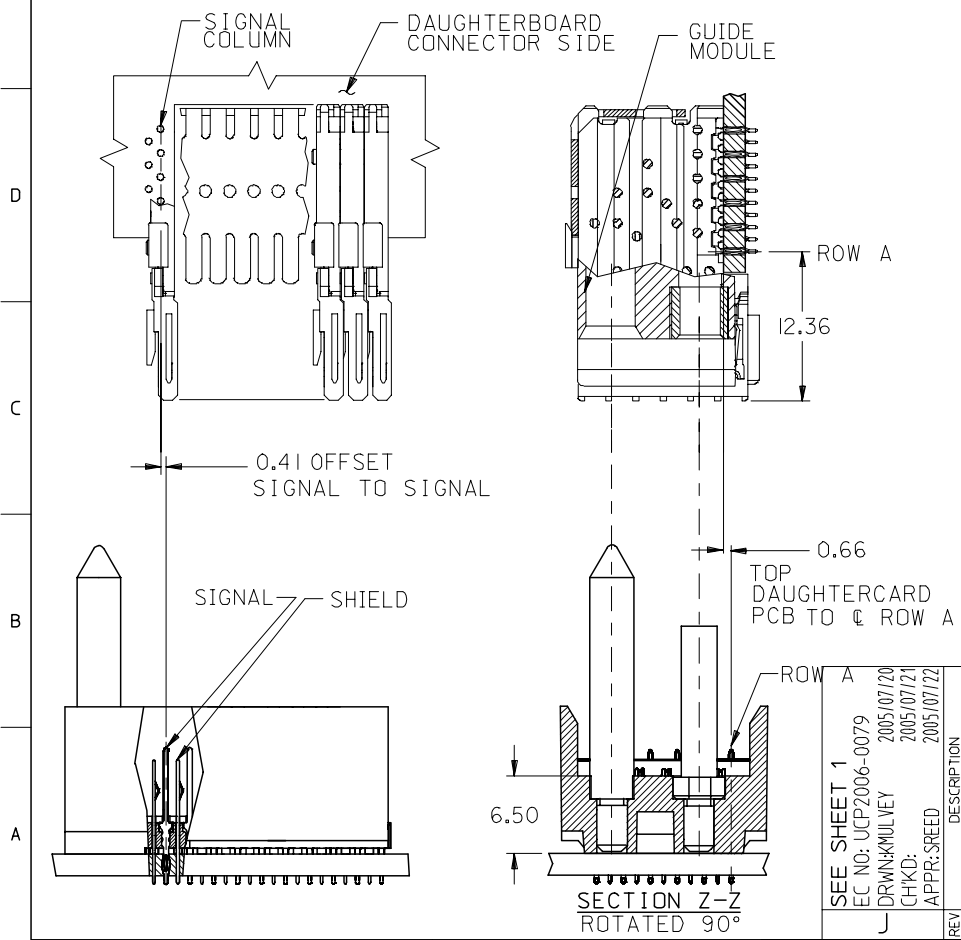
10 9 8 7 6 5 4 3 2 1

|                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| M/N<br>74058-( )          | -**0*                                                                             | -**1*                                                                             | -**2*                                                                             | -**3*                                                                             | -**4*                                                                             | -**5*                                                                               | -**6*                                                                               | -**7*                                                                               | -**8*                                                                               |
| KEYING PIN<br>ORIENTATION | O                                                                                 | A                                                                                 | B                                                                                 | C                                                                                 | D                                                                                 | E                                                                                   | F                                                                                   | G                                                                                   | H                                                                                   |
|                           |  |  |  |  |  |  |  |  |  |

74058 \* \* \* \*

NUMBER OF COLUMNS/PLATING  
10 = 10 COLUMN TIN/LEAD  
25 = 25 COLUMN TIN/LEAD  
90 = 10 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



| PART NUMBER | COLUMN | NUMBER OF SIGNAL PIN | NUMBER OF SHIELD | A     | B     | M    | Au (um) THICKNESS | Sn (um) THICKNESS |
|-------------|--------|----------------------|------------------|-------|-------|------|-------------------|-------------------|
| 74058-*0*1  | 10     | 60                   | 10               | 27.00 | 18.00 | 4.75 | 0.76              | 0.76-1.52         |
| 74058-*0*6  |        |                      |                  |       |       |      | 1.27              |                   |
| 74058-*5*1  | 25     | 150                  | 25               | 57.00 | 48.00 | 4.75 | 0.76              |                   |
| 74058-*5*6  |        |                      |                  |       |       |      | 1.27              |                   |
| 74058-*0*2  | 10     | 60                   | 10               | 27.00 | 18.00 | 6.25 | 0.76              |                   |
| 74058-*0*7  |        |                      |                  |       |       |      | 1.27              |                   |
| 74058-*5*2  | 25     | 150                  | 25               | 57.00 | 48.00 | 6.25 | 0.76              |                   |
| 74058-*5*7  |        |                      |                  |       |       |      | 1.27              |                   |
| 74058-*0*3  | 10     | 60                   | 10               | 27.00 | 18.00 | 4.25 | 0.76              |                   |
| 74058-*0*8  |        |                      |                  |       |       |      | 1.27              |                   |
| 74058-*5*3  | 25     | 150                  | 25               | 57.00 | 48.00 | 4.25 | 0.76              |                   |
| 74058-*5*8  |        |                      |                  |       |       |      | 1.27              |                   |
| 74058-*0*4  | 10     | 60                   | 10               | 27.00 | 18.00 | 5.15 | 0.76              |                   |
| 74058-*0*9  |        |                      |                  |       |       |      | 1.27              |                   |
| 74058-*5*4  | 25     | 150                  | 25               | 57.00 | 48.00 | 5.15 | 0.76              |                   |
| 74058-*5*9  |        |                      |                  |       |       |      | 1.27              |                   |

QUALITY SYMBOLS  
▽=0  
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)  
mm INCH  
4 PLACES ± --- ± ---  
3 PLACES ± --- ± ---  
2 PLACES ± --- ± ---  
1 PLACE ± --- ± ---  
ANGULAR ±1/2°

DIMENSION STYLE  
MM ONLY  
DRAWN BY DATE  
MWANG 1998/11/09  
CHECKED BY DATE  
JLAURX 1998/11/09  
APPROVED BY DATE  
CBIXLER 1998/11/09  
MATERIAL NO.  
SEE CHART

SCALE  
2.5:1

DESIGN UNITS  
METRIC

THIRD ANGLE  
PROJECTION

VHDM 6 ROW  
SIGNAL END BACKPLANE  
SALES ASSEMBLY  
MOLEX INCORPORATED  
SD-74058-002

SHEET NO.  
2 OF 2

SEE SHEET 1  
EC NO: UCP2006-0079  
IDRWKMLVEY 2005/07/20  
CHKD: 2005/07/21  
APPR: SRED 2005/07/22  
REV J

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

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

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9