

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

**Part Number:** [0457190006](#)  
**Status:** **Active**  
**Overview:** [edge\\_card\\_connectors](#)  
**Description:** 12.90mm (.508") Pitch EXTreme PowerEdge™, Connector, 4 Segments (8 Total Contacts), Through Hole Solder for 2.36mm (.093") Thick PC Board, Mates to a 1.57mm (.062") Thick Card Edge or Bus Bar Tab

**Documents:**

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-45719-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>     |

**Agency Certification**

|     |           |
|-----|-----------|
| CSA | LR19980   |
| TUV | R72090228 |

**General**

|                |                                      |
|----------------|--------------------------------------|
| Product Family | Edge Card Connectors                 |
| Series         | <a href="#">45719</a>                |
| Component Type | Edgecard to PCB                      |
| Overview       | <a href="#">edge_card_connectors</a> |
| Product Name   | Bus Bar Socket, EXTreme PowerEdge™   |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 8                              |
| Circuits (maximum)             | 8                              |
| Circuits Detail                | All Power                      |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 200                            |
| Entry Angle                    | Vertical (Top Entry)           |
| Flammability                   | 94V-0                          |
| Keying to Mating Part          | N/A                            |
| Material - Metal               | High Performance Alloy (HPA)   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| PC Tail Length (in)            | 0.143 In                       |
| PC Tail Length (mm)            | 3.63 mm                        |
| PCB Thickness Recommended (in) | 0.093 In                       |
| PCB Thickness Recommended (mm) | 2.40 mm                        |
| Packaging Type                 | Tray                           |
| Pitch - Mating Interface (in)  | 0.508 In                       |
| Pitch - Mating Interface (mm)  | 12.90 mm                       |
| Plating min: Mating (µin)      | 30                             |
| Plating min: Mating (µm)       | 0.75                           |
| Plating min: Termination (µin) | 150                            |
| Plating min: Termination (µm)  | 3.75                           |
| Temperature Range - Operating  | -40°C to +105°C                |
| Termination Interface: Style   | Through Hole                   |

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 40A  |
| Voltage - Maximum             | 250V |

**Solder Process Data**

|                                                |                        |
|------------------------------------------------|------------------------|
| Duration at Max. Process Temperature (seconds) | 5                      |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |

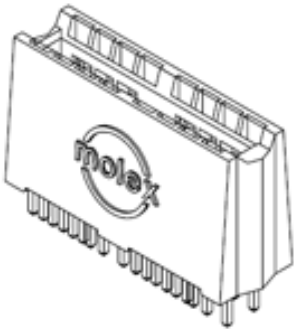


image - Reference only

Series

**EU RoHS**

**ELV and RoHS  
Compliant**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Not Reviewed**

**China RoHS**



**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

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

**Search Parts in this Series**

[45719Series](#)

**Mates With**

1.58mm (.062") double sided card edge or  
bus bar tab

Process Temperature max. C250

Material Info

Reference - Drawing Numbers

Packaging SpecificationPK-45714-001

Product SpecificationPS-45719-001

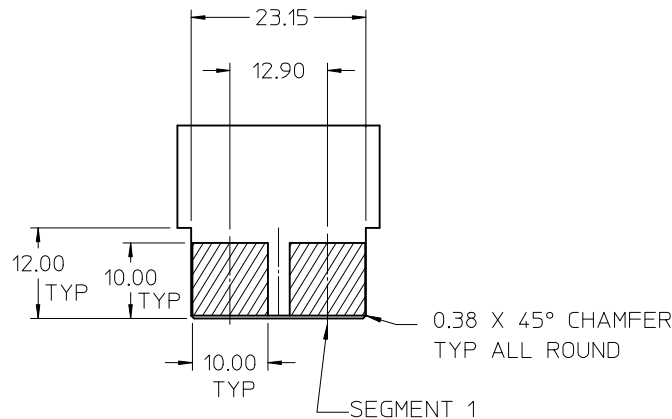
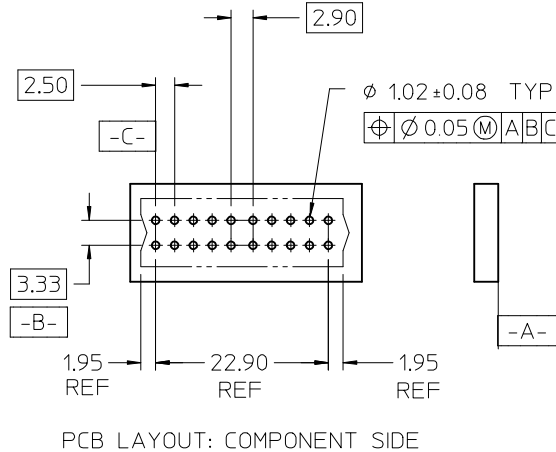
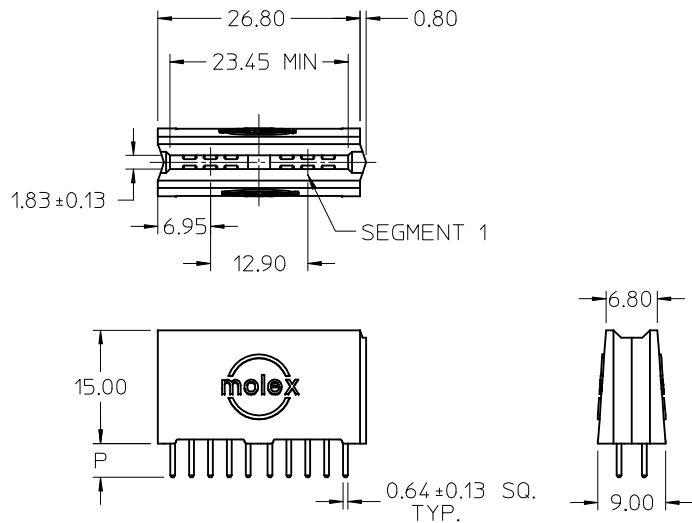
Sales DrawingSD-45719-001

This document was generated on 06/04/2010

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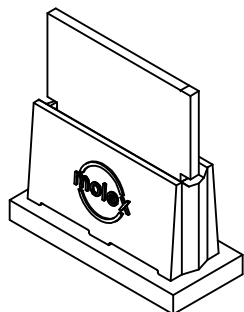
NOTES:

1. HOUSING MATL: LCP, UL94V-0, COLOR BLACK  
TERMINAL MATL: COPPER ALLOY
2. FINISH: SELECT GOLD: 30 M.I. MIN IN CONTACT AREA  
SELECT TIN: 150 M.I. MIN IN SOLDER AREA  
OVERALL NICKEL UNDERPLATE.
3. PRODUCT SPECIFICATION: PS-45719-001.
4. PACKAGING SPECIFICATION: PK-45714-001.
5. PCB THICKNESS: SEE CHART
6. EDGE CARD THICKNESS: 1.57±0.15
7. DIMENSIONS GIVEN ACROSS CENTERLINES ARE SYMMETRICAL  
ABOUT THOSE CENTERLINES WITHIN HALF TOTAL TOLERANCE.
8. VOIDED SEGMENTS DO NOT HAVE TERMINALS IN THE TOP OR BOTTOM ROW



RECOMMENDED EDGE CARD LAYOUT  
TOLERANCE: ±0.05

| MATERIAL NUMBER | VOIDED SEGMENT | P    | PCB THK |
|-----------------|----------------|------|---------|
| 45719-0001      | NONE           | 4.50 | 3.18    |
| 45719-2001      | 1              |      |         |
| 45719-2002      | 2              | 3.63 | 2.36    |
| 45719-0004      | NONE           |      |         |
| 45719-2003      | 1              | 2.92 | 1.57    |
| 45719-2004      | 2              |      |         |
| 45719-0007      | NONE           | 2.92 | 1.57    |
| 45719-2005      | 1              |      |         |
| 45719-2006      | 2              |      |         |



|                     |             |
|---------------------|-------------|
| ADD PIN DIM & TOL   | DESCRIPTION |
| EC NO: UCP2009-2476 | 2009/04/07  |
| DRWN: JSCHAFER      | 2009/04/07  |
| CHKD: APATEL        | 2009/04/20  |
| APPR: APATEL        | 2009/04/20  |
| E1                  | REV         |

| GENERAL TOLERANCES (UNLESS SPECIFIED)                |        |       |
|------------------------------------------------------|--------|-------|
|                                                      | mm     | INCH  |
| 4 PLACES                                             | ± ---  | ± --- |
| 3 PLACES                                             | ± ---  | ± --- |
| 2 PLACES                                             | ± 0.25 | ± --- |
| 1 PLACE                                              | ± 0.25 | ± --- |
| ANGULAR ±1/2°                                        |        |       |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        |       |

| DIMENSION STYLE |            |
|-----------------|------------|
| MM ONLY         |            |
| DRAWN BY        | DATE       |
| MARGUL IS       | 2003/11/11 |
| CHECKED BY      | DATE       |
| MARGUL IS       | 2003/11/11 |
| APPROVED BY     | DATE       |
| MARGUL IS       | 2003/11/11 |
| SIZE            | A          |

|                                                      |              |
|------------------------------------------------------|--------------|
| SCALE                                                | 1:1          |
| DESIGN UNITS                                         | METRIC       |
| THIRD ANGLE PROJECTION                               |              |
| TITLE                                                |              |
| POWER EDGE ASSEMBLY<br>POWER VERTICAL<br>SOLDER TAIL |              |
| MOLEX INCORPORATED                                   |              |
| DOCUMENT NO.                                         | SD-45719-001 |
| SHEET NO.                                            | 1 OF 3       |

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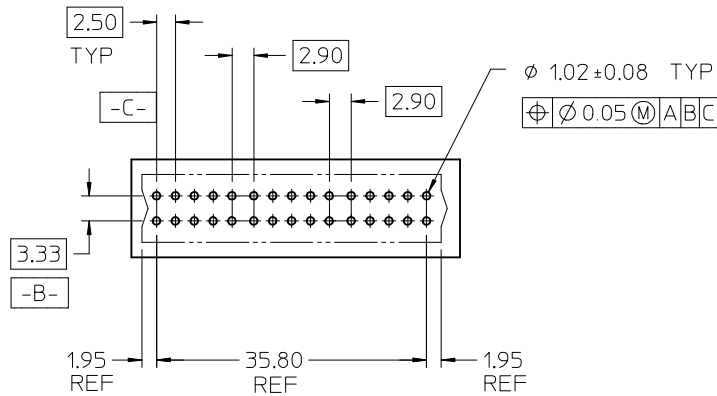
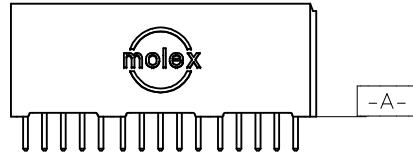
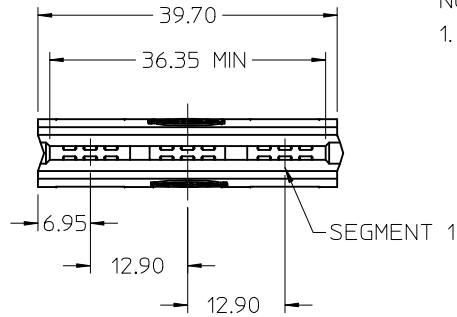
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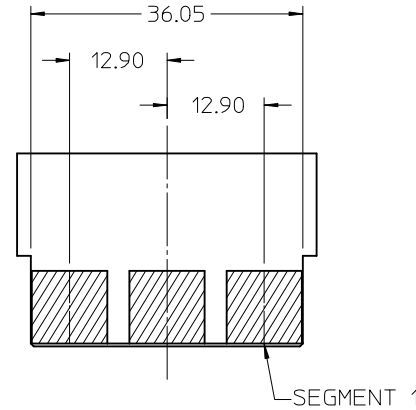
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## NOTES:

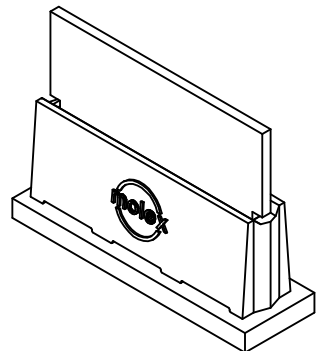
1. FOR ALL OTHER DIMENSIONS AND NOTES SEE SHEET 1.



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED EDGE CARD LAYOUT  
EDGE CARD TOLERANCE: ±0.05

| MATERIAL NUMBER | VOIDED SEGMENT | P    | PCB THK |
|-----------------|----------------|------|---------|
| 45719-0002      | NONE           | 4.50 | 3.18    |
| 45719-3001      | 1              |      |         |
| 45719-3002      | 2              |      |         |
| 45719-3003      | 3              |      |         |
| 45719-3004      | 1,2            |      |         |
| 45719-3005      | 1,3            |      |         |
| 45719-3006      | 2,3            |      |         |
| 45719-0005      | NONE           | 3.63 | 2.36    |
| 45719-3007      | 1              |      |         |
| 45719-3008      | 2              |      |         |
| 45719-3009      | 3              |      |         |
| 45719-3010      | 1,2            |      |         |
| 45719-3011      | 1,3            |      |         |
| 45719-3012      | 2,3            |      |         |
| 45719-0008      | NONE           | 2.92 | 1.57    |
| 45719-3013      | 1              |      |         |
| 45719-3014      | 2              |      |         |
| 45719-3015      | 3              |      |         |
| 45719-3016      | 1,2            |      |         |
| 45719-3017      | 1,3            |      |         |
| 45719-3018      | 2,3            |      |         |



|                     |            |             |
|---------------------|------------|-------------|
| EC NO: UCP2009-2476 | 2009/04/07 | DESCRIPTION |
| DRWN: JSCHAFER      | 2009/04/07 |             |
| CHKD:               | 2009/04/07 |             |
| APPR: APATEL        | 2009/04/20 |             |
| E1                  | REV        |             |

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

|          | mm     | INCH  |
|----------|--------|-------|
| 4 PLACES | ± ---  | ± --- |
| 3 PLACES | ± ---  | ± --- |
| 2 PLACES | ± 0.25 | ± --- |
| 1 PLACE  | ± 0.25 | ± --- |

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONSDIMENSION STYLE  
MM ONLY

|             |            |
|-------------|------------|
| DRAWN BY    | DATE       |
| MARGULIS    | 2003/11/11 |
| CHECKED BY  | DATE       |
| MARGULIS    | 2003/11/11 |
| APPROVED BY | DATE       |
| MARGULIS    | 2003/11/11 |

SCALE  
1:1DESIGN UNITS  
METRICTHIRD ANGLE  
PROJECTIONPOWER EDGE ASSEMBLY  
POWER VERTICAL  
SOLDER TAIL

MOLEX INCORPORATED

DOCUMENT NO.

SD-45719-001

SHEET NO.

2

SIZE  
ATHIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
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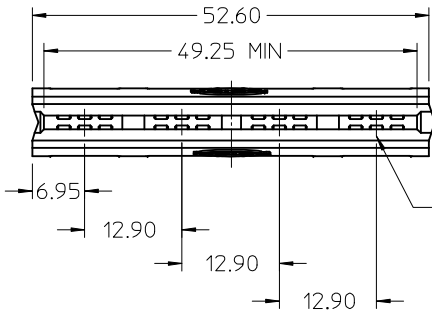
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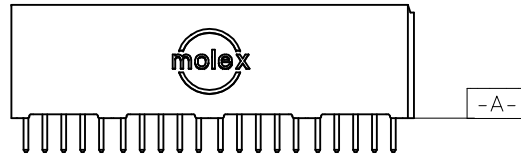
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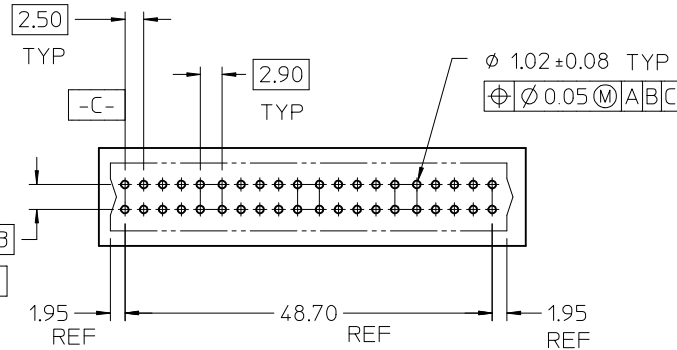


## NOTES:

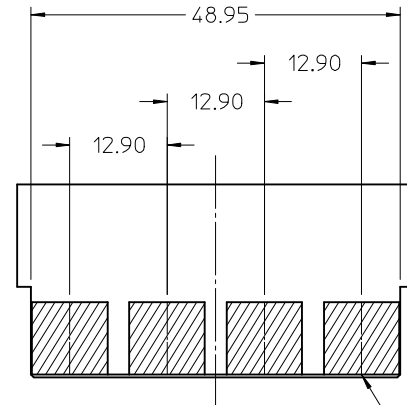
1. FOR ALL OTHER DIMENSIONS AND NOTES SEE SHEET 1.



-A-



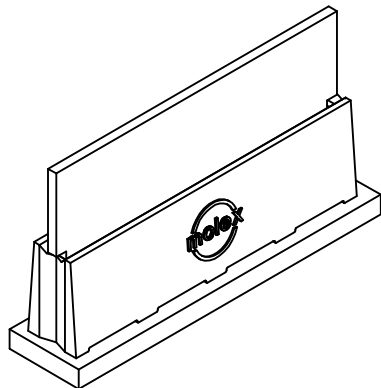
PCB LAYOUT: COMPONENT SIDE



SEGMENT 1

RECOMMENDED EDGE CARD LAYOUT  
EDGE CARD TOLERANCE:  $\pm 0.05$ 

| MATERIAL NUMBER | VOIDED SEGMENT | P    | PCB THK |
|-----------------|----------------|------|---------|
| 45719-0003      | NONE           | 4.50 | 3.18    |
| 45719-4001      | 1              |      |         |
| 45719-4002      | 2              |      |         |
| 45719-4003      | 3              |      |         |
| 45719-4004      | 4              |      |         |
| 45719-4005      | 1,2            |      |         |
| 45719-4006      | 1,3            |      |         |
| 45719-4007      | 1,4            |      |         |
| 45719-4008      | 2,3            |      |         |
| 45719-4009      | 2,4            |      |         |
| 45719-4010      | 3,4            |      |         |
| 45719-0006      | NONE           | 3.63 | 2.36    |
| 45719-4011      | 1              |      |         |
| 45719-4012      | 2              |      |         |
| 45719-4013      | 3              |      |         |
| 45719-4014      | 4              |      |         |
| 45719-4015      | 1,2            |      |         |
| 45719-4016      | 1,3            |      |         |
| 45719-4017      | 1,4            |      |         |
| 45719-4018      | 2,3            |      |         |
| 45719-4019      | 2,4            |      |         |
| 45719-4020      | 3,4            | 2.92 | 1.57    |
| 45719-0009      | NONE           |      |         |
| 45719-4021      | 1              |      |         |
| 45719-4022      | 2              |      |         |
| 45719-4023      | 3              |      |         |
| 45719-4024      | 4              |      |         |
| 45719-4025      | 1,2            |      |         |
| 45719-4026      | 1,3            |      |         |
| 45719-4027      | 1,4            |      |         |
| 45719-4028      | 2,3            |      |         |
| 45719-4029      | 2,4            |      |         |
| 45719-4030      | 3,4            |      |         |



|                                                                |  |                                        |             |                                          |        |           |                                                            |                                                                                                                                  |                    |                                                               |                           |  |  |
|----------------------------------------------------------------|--|----------------------------------------|-------------|------------------------------------------|--------|-----------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------|---------------------------|--|--|
| EC NO: UCP2009-2476<br>DRWN: JSCHAFER<br>CHKD:<br>APPR: APATEL |  | 2009/04/07<br>2009/04/07<br>2009/04/20 | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |        |           | DIMENSION STYLE<br>MM ONLY                                 |                                                                                                                                  | SCALE<br>1:1       | DESIGN UNITS<br>METRIC                                        | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                |  |                                        |             |                                          | mm     | INCH      | DRAWN BY<br>MARGUL IS                                      |                                                                                                                                  | DATE<br>2003/11/11 | TITLE<br>POWER EDGE ASSEMBLY<br>POWER VERTICAL<br>SOLDER TAIL |                           |  |  |
|                                                                |  |                                        |             | 4 PLACES                                 | ± ---  | ± ---     | CHECKED BY<br>MARGUL IS                                    |                                                                                                                                  | DATE<br>2003/11/11 |                                                               |                           |  |  |
|                                                                |  |                                        |             | 3 PLACES                                 | ± ---  | ± ---     | APPROVED BY<br>MARGUL IS                                   |                                                                                                                                  | DATE<br>2003/11/11 | molex MOLEX INCORPORATED                                      |                           |  |  |
|                                                                |  |                                        |             | 2 PLACES                                 | ± 0.25 | ± ---     | DOCUMENT NO.<br>SD-45719-001                               |                                                                                                                                  | SHEET NO.<br>3     |                                                               |                           |  |  |
|                                                                |  |                                        |             | 1 PLACE                                  | ± 0.25 | ± ---     | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  |                    |                                                               |                           |  |  |
| ANGULAR ±1/2°                                                  |  |                                        |             |                                          |        |           |                                                            |                                                                                                                                  |                    |                                                               |                           |  |  |
| E1                                                             |  | REV                                    |             |                                          |        | SIZE<br>A |                                                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                               |                           |  |  |

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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.);

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## 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).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А