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**Part Number:** [0736442217](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, SMC, Press-Fit, Guide Post Location A, Polarizing Key Position N/A, 72 Circuits

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

**Agency Certification**

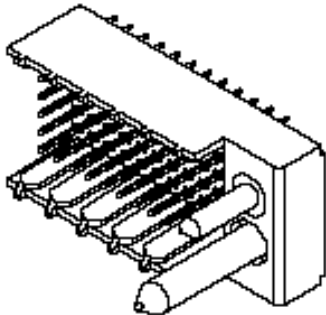
CSA LR19980  
UL E29179

**General**

Product Family Backplane Connectors  
Series [73644](#)  
Application Backplane  
Comments Standard Press-Fit, Tin/Lead (SnPb)  
Component Type PCB Header  
Overview [hdm](#)  
Product Name HDM®  
Style N/A

**Physical**

Circuits (Loaded) 72  
Circuits (maximum) 72  
Color - Resin Black, Natural  
Durability (mating cycles max) 250  
First Mate / Last Break No  
Flammability 94V-0  
Guide to Mating Part Yes  
Keying to Mating Part None  
Material - Metal Phosphor Bronze, Stainless Steel  
Material - Plating Mating Gold  
Material - Plating Termination Tin  
Material - Resin High Temperature Thermoplastic  
Number of Columns 12  
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 Locator No  
PCB Retention Yes  
PCB Thickness Recommended (in) 0.098 In  
PCB Thickness Recommended (mm) 2.50 mm  
Packaging Type Tube  
Pitch - Mating Interface (in) 0.079 In  
Pitch - Mating Interface (mm) 2.00 mm  
Pitch - Term. Interface (in) 0.079 In  
Pitch - Term. Interface (mm) 2.00 mm  
Plating min: Mating (µin) 30  
Plating min: Mating (µm) 0.75  
Plating min: Termination (µin) 15  
Plating min: Termination (µm) 0.375



Series

image - Reference only

**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**  
[73644Series](#)

**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 #                  |
|-----------------------|----------------------------|
| Flat Rock Tooling for | <a href="#">0622013700</a> |
| Pneumatic Press       |                            |
| HDM® Backplane        | <a href="#">0621001400</a> |
| Insertion Signal      |                            |
| Contact Tool          |                            |
| Extraction Tool       | <a href="#">0621001000</a> |

|                                |                              |
|--------------------------------|------------------------------|
| Polarized to PCB               | No                           |
| Stackable                      | No                           |
| Surface Mount Compatible (SMC) | Yes                          |
| Temperature Range - Operating  | -55°C to +105°C              |
| Termination Interface: Style   | Through Hole - Compliant Pin |

**Electrical**

|                               |          |
|-------------------------------|----------|
| Current - Maximum per Contact | 1A       |
| Data Rate                     | 1.0 Gbps |
| Real Signals (per 25mm)       | 75       |
| Shielded                      | No       |
| Voltage - Maximum             | 250V AC  |

**Material Info**

**Reference - Drawing Numbers**

|                         |                |
|-------------------------|----------------|
| Packaging Specification | PK-70873-0818  |
| Sales Drawing           | SDA-73644-**** |

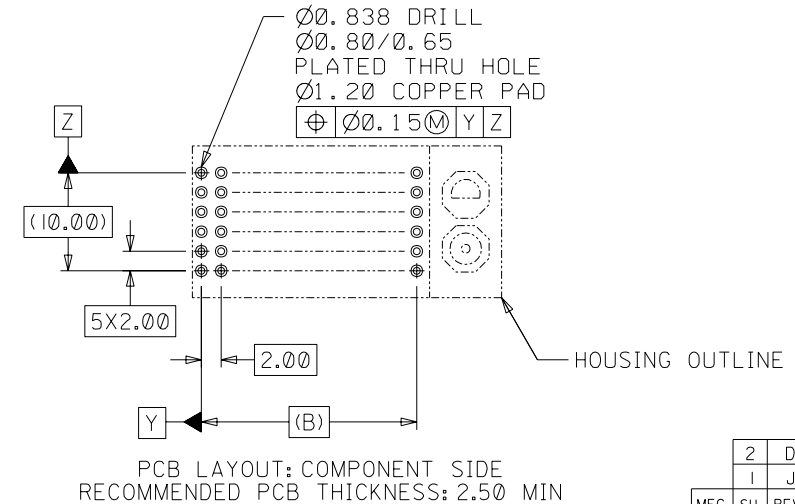
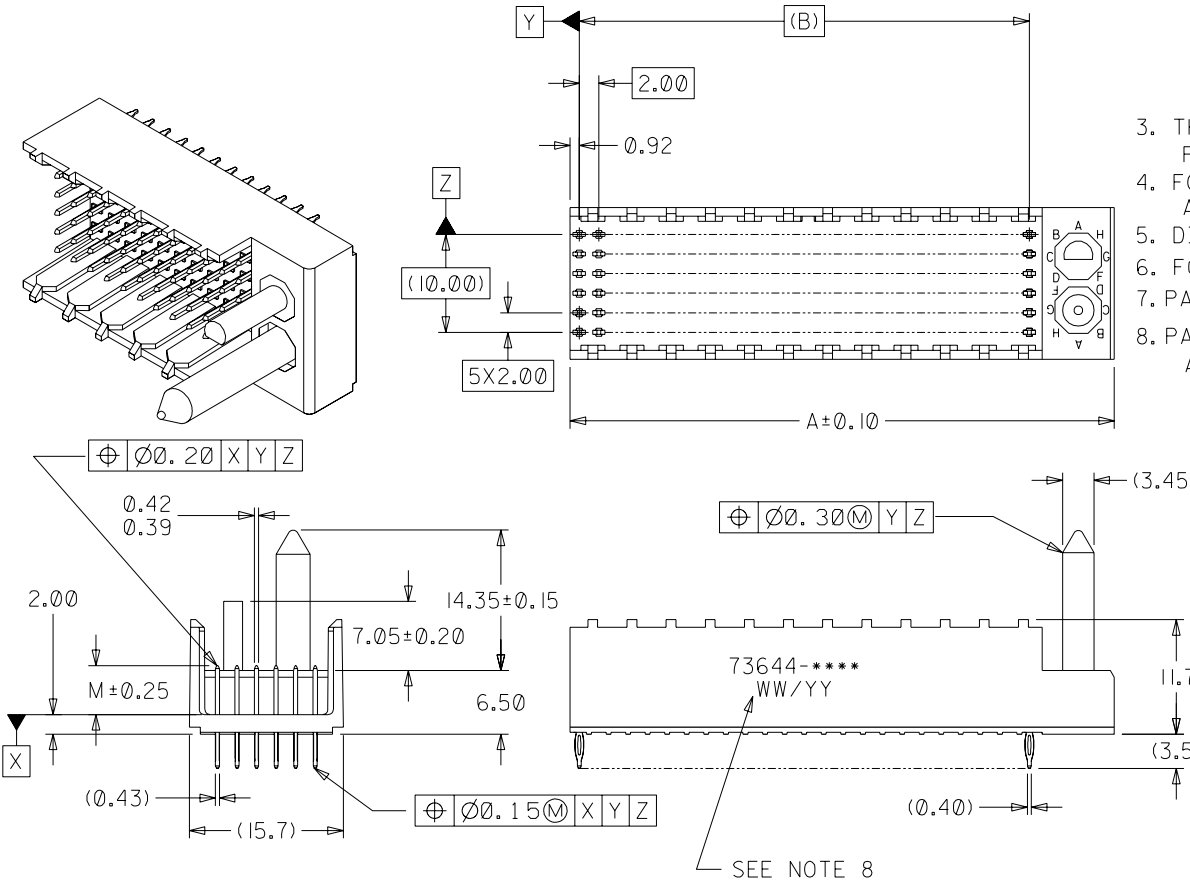
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# NOTES:

1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0, COLOR: BLACK, TERMINAL - PHOSPHOR BRONZE.
2. FINISHES: SELECTIVE GOLD (Au) IN CONTACT AREA, 0.00076mm MINIMUM THICKNESS; NICKEL (Ni) AND GOLD FLASH OVERALL SELECTIVE GOLD (Au) IN CONTACT AREA, 0.00076mm MIN. THICKNESS; SELECTIVE TIN/LEAD (Sb/Pb) IN TAIL AREA; NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-73670-9999.
4. FOR MIXED CONTACT MATING LENGTHS, CONSULT FACTORY FOR AVAILABILITY.
5. DIMENSIONS ARE IN MILLIMETERS.
6. FOR SPECIFIC MATERIAL NUMBERS, REFER TO SHEET 2.
7. PACKAGE PER PK-70873-0818.
8. PARTS MARKED WITH PART NUMBER AND DATE CODE, ON EITHER SIDE, APPROXIMATELY WHERE SHOWN.



|      |     |
|------|-----|
| 2    | D   |
| 1    | J   |
| MFG. | SH. |
| REV. |     |

|                                                          |       |                                                                                                                                                                                     |       |                                                                                                                           |  |
|----------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------|--|
| DIMENSIONS SHOWN (METRIC) INCH                           |       |  = 0  = 0 |       | REVISE ONLY ON CAD SYSTEM                                                                                                 |  |
| UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR ± 1/2° |       | TITLE                                                                                                                                                                               |       |                                                                                                                           |  |
| INCH                                                     |       | SALES ASSY, HDM BACKPLANE                                                                                                                                                           |       |                                                                                                                           |  |
| METRIC                                                   |       | MODULE, POLAR/GUIDE OPTION                                                                                                                                                          |       |                                                                                                                           |  |
| 3 PLACE                                                  | ± N/A |                                                                                                                                                                                     |       |                                                                                                                           |  |
| 2 PLACE                                                  | ± N/A | ± 0.05                                                                                                                                                                              |       |                                                                                                                           |  |
| 1 PLACE                                                  | ---   | ± 0.10                                                                                                                                                                              |       |                                                                                                                           |  |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS  |       |                                                                                                                                                                                     |       |                                                                                                                           |  |
| DRWG.<br>BY                                              | JRR   | CHK'D.<br>BY                                                                                                                                                                        | SMR   |                                                                                                                           |  |
| APP'D.<br>BY                                             | CAB   | SCALE                                                                                                                                                                               | 2 : 1 |                                                                                                                           |  |
|                                                          |       | FILE NAME                                                                                                                                                                           |       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |  |
|                                                          |       | S73644X1<br>DGN                                                                                                                                                                     |       | DIV. DA    SIZE B                                                                                                         |  |

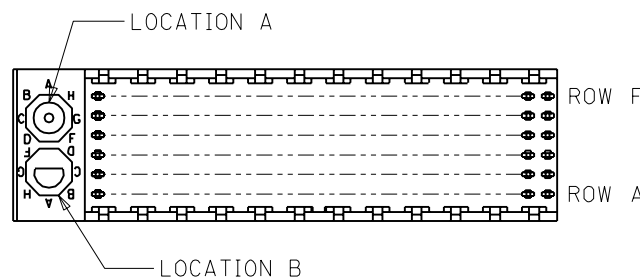
| 10 |                    | 9                            | 8                                 | 7 | 6       |         | 7364    |
|----|--------------------|------------------------------|-----------------------------------|---|---------|---------|---------|
| F  | MATERIAL<br>NUMBER | NUMBER OF<br>SIGNAL CONTACTS | PLATING                           |   | DIM "A" | DIM "B" | DIM "M" |
|    | 73644-00**         | 72                           | SELECTIVE GOLD/GOLD FLASH         |   | 31.60   | 22.00   | 5.00    |
|    | 73644-01**         | 72                           | SELECTIVE GOLD/GOLD FLASH         |   | 31.60   | 22.00   | 5.50    |
|    | 73644-02**         | 72                           | SELECTIVE GOLD/GOLD FLASH         |   | 31.60   | 22.00   | 6.00    |
|    | 73644-10**         | 144                          | SELECTIVE GOLD/GOLD FLASH         |   | 55.60   | 46.00   | 5.00    |
|    | 73644-11**         | 144                          | SELECTIVE GOLD/GOLD FLASH         |   | 55.60   | 46.00   | 5.50    |
|    | 73644-12**         | 144                          | SELECTIVE GOLD/GOLD FLASH         |   | 55.60   | 46.00   | 6.00    |
| E  | 73644-20**         | 72                           | SELECTIVE GOLD/SELECTIVE TIN-LEAD |   | 31.60   | 22.00   | 5.00    |
|    | 73644-21**         | 72                           | SELECTIVE GOLD/SELECTIVE TIN-LEAD |   | 31.60   | 22.00   | 5.50    |
|    | 73644-22**         | 72                           | SELECTIVE GOLD/SELECTIVE TIN-LEAD |   | 31.60   | 22.00   | 6.00    |
|    | 73644-30**         | 144                          | SELECTIVE GOLD/SELECTIVE TIN-LEAD |   | 55.60   | 46.00   | 5.00    |
|    | 73644-31**         | 144                          | SELECTIVE GOLD/SELECTIVE TIN-LEAD |   | 55.60   | 46.00   | 5.50    |
|    | 73644-32**         | 144                          | SELECTIVE GOLD/SELECTIVE TIN-LEAD |   | 55.60   | 46.00   | 6.00    |

## MATERIAL NUMBER ASSIGNMENT

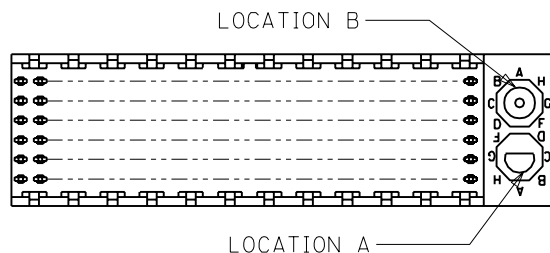
73644- \* \* \* \*

0 = 72-CIRCUIT, GOLD/GOLD FLASH  
1 = 144-CIRCUIT, GOLD/GOLD FLASH  
2 = 72-CIRCUIT, GOLD/TIN-LEAD  
3 = 144-CIRCUIT, GOLD/TIN-LEAD

```
0 = 5.00 MATING LENGTH
1 = 5.50 MATING LENGTH
2 = 6.00 MATING LENGTH
```



REF. MATERIAL NUMBER 73644-0009  
GUIDE PIN IS IN LOCATION A  
POLARIZING KEY IS IN LOCATION B, POSITION F



REF. MATERIAL NUMBER 73644-0008  
GUIDE PIN IS IN LOCATION B  
POLARIZING KEY IS IN LOCATION A, POSITION E

| NUMBER | GUIDE POST LOCATION | POLAR KEY POSITION |
|--------|---------------------|--------------------|
| 00     | B                   | A                  |
| 01     | A                   |                    |
| 02     | B                   | B                  |
| 03     | A                   |                    |
| 04     | B                   | C                  |
| 05     | A                   |                    |
| 06     | B                   | D                  |
| 07     | A                   |                    |
| 08     | B                   | E                  |
| 09     | A                   |                    |
| 10     | B                   | F                  |
| 11     | A                   |                    |
| 12     | B                   | G                  |
| 13     | A                   |                    |
| 14     | B                   | H                  |
| 15     | A                   |                    |
| 16     | B                   | N/A                |
| 17     | A                   |                    |
| 18     | N/A                 |                    |

|                   |         |       |        |                   |  |  |  |                                                |                                                                                                                                                                                                                                                                             |  |  |                                                                                                                        |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|-------------------|---------|-------|--------|-------------------|--|--|--|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--|--------|---|---------|-------|-----|---|---------|-------|-------|---|---------|-----|-------|---|--|--|--|---|--|--|--|---|--|--|--|
| A                 |         |       |        |                   |  |  |  |                                                | DIMENSIONS SHOWN (METRIC) INCH                                                                                                                                                                                                                                              |  |  |                                                                                                                        | ▽ = 0    ▼ = 0    REVISE ONLY ON CAD SYSTEM |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   |         |       |        |                   |  |  |  |                                                | UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR ± 1/2°                                                                                                                                                                                                                    |  |  |                                                                                                                        | TITLE                                       |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   |         |       |        |                   |  |  |  |                                                | <table><tr><td colspan="2">INCH</td><td colspan="2">METRIC</td></tr><tr><td>3 PLACE</td><td>± N/A</td><td colspan="2">---</td></tr><tr><td>2 PLACE</td><td>± N/A</td><td colspan="2">± N/A</td></tr><tr><td>1 PLACE</td><td>---</td><td colspan="2">± N/A</td></tr></table> |  |  |                                                                                                                        | INCH                                        |  | METRIC |   | 3 PLACE | ± N/A | --- |   | 2 PLACE | ± N/A | ± N/A |   | 1 PLACE | --- | ± N/A |   |  |  |  |   |  |  |  |   |  |  |  |
|                   | INCH    |       | METRIC |                   |  |  |  |                                                |                                                                                                                                                                                                                                                                             |  |  |                                                                                                                        |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   | 3 PLACE | ± N/A | ---    |                   |  |  |  |                                                |                                                                                                                                                                                                                                                                             |  |  |                                                                                                                        |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   | 2 PLACE | ± N/A | ± N/A  |                   |  |  |  |                                                |                                                                                                                                                                                                                                                                             |  |  |                                                                                                                        |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   | 1 PLACE | ---   | ± N/A  |                   |  |  |  |                                                |                                                                                                                                                                                                                                                                             |  |  |                                                                                                                        |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   |         |       |        |                   |  |  |  |                                                | DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS                                                                                                                                                                                                                     |  |  |                                                                                                                        |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   |         |       |        | D                 |  |  |  | SEE SHEET 1                                    |                                                                                                                                                                                                                                                                             |  |  |                                                                                                                        |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   |         |       |        |                   |  |  |  | DRWG. BY JRR    CHK'D. BY SMR                  |                                                                                                                                                                                                                                                                             |  |  |                                                                                                                        |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
| LTR.    REVISIONS |         |       |        | LTR.    REVISIONS |  |  |  | APP'D. BY CAB    SCALE -- : --                 |                                                                                                                                                                                                                                                                             |  |  |                                                                                                                        |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   |         |       |        |                   |  |  |  |                                                |                                                                                                                                                                                                                                                                             |  |  | SHEET NO. 2    DATE 96/12/18                                                                                           |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   |         |       |        |                   |  |  |  | MOLEX INCORPORATED<br>LISLE, ILL. 60532 U.S.A. |                                                                                                                                                                                                                                                                             |  |  | PART NO.    DRWG. NO.                                                                                                  |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   |         |       |        |                   |  |  |  | SEE CHART                                      |                                                                                                                                                                                                                                                                             |  |  | SDA-73644-****                                                                                                         |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   |         |       |        |                   |  |  |  | FILE NAME S73644X2 DGN                         |                                                                                                                                                                                                                                                                             |  |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
|                   |         |       |        |                   |  |  |  |                                                |                                                                                                                                                                                                                                                                             |  |  | DIV. DA    SIZE B                                                                                                      |                                             |  |        |   |         |       |     |   |         |       |       |   |         |     |       |   |  |  |  |   |  |  |  |   |  |  |  |
| 10                |         |       |        | 9                 |  |  |  | 8                                              |                                                                                                                                                                                                                                                                             |  |  | 7                                                                                                                      |                                             |  |        | 6 |         |       |     | 5 |         |       |       | 4 |         |     |       | 3 |  |  |  | 2 |  |  |  | 1 |  |  |  |

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);
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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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- 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:

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«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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