

## Plug - SPDB 2,5/ 1-R GNYE - 3043271

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Plug, Connection method: Spring-cage connection, Number of positions: 1, Cross section: 0.08 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 28 - 12, Width: 5.2 mm, Height: 39 mm, Color: green-yellow

Illustration shows versions of the SPDB 2,5/1-... connector in various colors

### Product Description

Connector element right, left housing with engagement pin, right closed with cover

### Product Features

- Plug with bridging option, for use with basic terminal blocks
- The plug with spring-cage connection is assembled directly on site by snapping together single-position plug elements
- The ST-COMBI plugs for self-assembly provide solutions that users can implement themselves
- Tested for railway applications



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Minimum order quantity               | 50 pc    |
| Weight per Piece (excluding packing) | 5.53 g   |
| Custom tariff number                 | 85366990 |
| Country of origin                    | Poland   |

### Technical data

#### General

|                       |                     |
|-----------------------|---------------------|
| Number of levels      | 1                   |
| Number of connections | 1                   |
| Nominal cross section | 2.5 mm <sup>2</sup> |
| Color                 | green-yellow        |
| Insulating material   | PA                  |

# Plug - SPDB 2,5/ 1-R GNYE - 3043271

## Technical data

### General

|                                        |                                                           |
|----------------------------------------|-----------------------------------------------------------|
| Flammability rating according to UL 94 | V0                                                        |
| Area of application                    | Railway industry                                          |
|                                        | Machine building                                          |
|                                        | Plant engineering                                         |
| Maximum load current                   | 24 A (with a 2.5 mm <sup>2</sup> conductor cross section) |
| Rated surge voltage                    | 6 kV                                                      |
| Degree of pollution                    | 3                                                         |
| Overvoltage category                   | III                                                       |
| Insulating material group              | I                                                         |
| Maximum load current                   | 24 A (with 4 mm <sup>2</sup> conductor cross section)     |
| Nominal current I <sub>N</sub>         | 24 A                                                      |
| Nominal voltage U <sub>N</sub>         | 500 V                                                     |
| Open side panel                        | No                                                        |

### Dimensions

|        |          |
|--------|----------|
| Width  | 5.2 mm   |
| Length | 32.7 mm  |
| Height | 39 mm    |
|        | 24.00 mm |
| Pitch  | 5.20 mm  |

### Connection data

|                                                                                         |                        |
|-----------------------------------------------------------------------------------------|------------------------|
| Connection method                                                                       | Spring-cage connection |
| Connection in acc. with standard                                                        | IEC 61984              |
| Conductor cross section solid min.                                                      | 0.08 mm <sup>2</sup>   |
| Conductor cross section solid max.                                                      | 4 mm <sup>2</sup>      |
| Conductor cross section AWG min.                                                        | 28                     |
| Conductor cross section AWG max.                                                        | 12                     |
| Conductor cross section flexible min.                                                   | 0.08 mm <sup>2</sup>   |
| Conductor cross section flexible max.                                                   | 2.5 mm <sup>2</sup>    |
| Min. AWG conductor cross section, flexible                                              | 28                     |
| Max. AWG conductor cross section, flexible                                              | 14                     |
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 0.14 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 2.5 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 0.14 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 2.5 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm <sup>2</sup>    |
| Stripping length                                                                        | 8 mm ... 10 mm         |

## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Technical data

#### Connection data

|                           |                 |
|---------------------------|-----------------|
| Internal cylindrical gage | A3              |
| Connection method         | Plug connection |

#### Standards and Regulations

|                                        |           |
|----------------------------------------|-----------|
| Connection in acc. with standard       | CSA       |
|                                        | IEC 61984 |
| Flammability rating according to UL 94 | V0        |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27141151 |
| eCl@ss 7.0 | 27141151 |
| eCl@ss 8.0 | 27141151 |
| eCl@ss 9.0 | 27141151 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC002021 |
| ETIM 5.0 | EC002021 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211802 |
| UNSPSC 7.0901 | 39121402 |
| UNSPSC 11     | 39121402 |
| UNSPSC 12.01  | 39121402 |
| UNSPSC 13.2   | 39121402 |

### Approvals

#### Approvals

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## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Approvals

#### Approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / LR / GL / BV / RS / IECCEB CB Scheme / EAC / cULus Recognized

#### Ex Approvals

#### Approvals submitted

#### Approval details

|                                                                                       |       |       |
|---------------------------------------------------------------------------------------|-------|-------|
| CSA  |       |       |
|                                                                                       | B     | C     |
| mm <sup>2</sup> /AWG/kcmil                                                            | 24-12 | 24-12 |
| Nominal current I <sub>N</sub>                                                        | 20 A  | 20 A  |
| Nominal voltage U <sub>N</sub>                                                        | 300 V | 300 V |

|                                                                                                   |       |       |       |
|---------------------------------------------------------------------------------------------------|-------|-------|-------|
| UL Recognized  |       |       |       |
|                                                                                                   | B     | C     | D     |
| mm <sup>2</sup> /AWG/kcmil                                                                        | 28-12 | 28-12 | 28-12 |
| Nominal current I <sub>N</sub>                                                                    | 20 A  | 20 A  | 5 A   |
| Nominal voltage U <sub>N</sub>                                                                    | 300 V | 300 V | 600 V |

|                                                                                                                             |       |
|-----------------------------------------------------------------------------------------------------------------------------|-------|
| VDE Gutachten mit Fertigungsüberwachung  |       |
|                                                                                                                             |       |
| mm <sup>2</sup> /AWG/kcmil                                                                                                  | 0.2-4 |
| Nominal voltage U <sub>N</sub>                                                                                              | 500 V |

## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Approvals

|                                                                                                  |       |       |       |
|--------------------------------------------------------------------------------------------------|-------|-------|-------|
| cUL Recognized  |       |       |       |
|                                                                                                  | B     | C     | D     |
| mm²/AWG/kcmil                                                                                    | 28-12 | 28-12 | 28-12 |
| Nominal current I <sub>N</sub>                                                                   | 20 A  | 20 A  | 5 A   |
| Nominal voltage U <sub>N</sub>                                                                   | 300 V | 300 V | 600 V |

|    |
|----|
| LR |
|----|

|    |
|----|
| GL |
|----|

|    |
|----|
| BV |
|----|

|    |
|----|
| RS |
|----|

|                                                                                                     |       |
|-----------------------------------------------------------------------------------------------------|-------|
| IECEE CB Scheme  |       |
|                                                                                                     |       |
| mm²/AWG/kcmil                                                                                       | 0.2-4 |
| Nominal voltage U <sub>N</sub>                                                                      | 500 V |

|     |
|-----|
| EAC |
|-----|

|                                                                                                      |
|------------------------------------------------------------------------------------------------------|
| cULus Recognized  |
|------------------------------------------------------------------------------------------------------|

### Accessories

Accessories

Flange

## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Accessories

Flange cover - DFS-SPDB 2,5 - 3061457



Flange cover, Length: 35.8 mm, Width: 4.5 mm, Height: 24.7 mm, Color: gray

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### Insulating sleeve

Insulating sleeve - ISH 2,5/0,2 - 3002843



Insulating sleeve, Color: white

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Insulating sleeve - ISH 2,5/0,5 - 3002856



Insulating sleeve, Color: gray

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Insulating sleeve - ISH 2,5/1,0 - 3002869



Insulating sleeve, Color: black

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### Jumper

Plug-in bridge - FBS 2-5 - 3030161



Plug-in bridge, Pitch: 5.2 mm, Length: 22.7 mm, Width: 9 mm, Number of positions: 2, Color: red

## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Accessories

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#### Plug-in bridge - FBS 3-5 - 3030174



Plug-in bridge, Pitch: 5.2 mm, Length: 22.7 mm, Width: 14.2 mm, Number of positions: 3, Color: red

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#### Plug-in bridge - FBS 4-5 - 3030187



Plug-in bridge, Pitch: 5.2 mm, Length: 22.7 mm, Width: 19.4 mm, Number of positions: 4, Color: red

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#### Plug-in bridge - FBS 5-5 - 3030190



Plug-in bridge, Pitch: 5.2 mm, Length: 22.7 mm, Width: 24.6 mm, Number of positions: 5, Color: red

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#### Plug-in bridge - FBS 10-5 - 3030213



Plug-in bridge, Pitch: 5.2 mm, Length: 22.7 mm, Width: 50.6 mm, Number of positions: 10, Color: red

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#### Plug-in bridge - FBS 20-5 - 3030226



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 20, Color: red

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## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Accessories

Plug-in bridge - FBS 50-5 - 3038930



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 50, Color: red

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Plug-in bridge - FBS 2-5 BU - 3036877



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 2, Color: blue

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Plug-in bridge - FBS 3-5 BU - 3036880



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 3, Color: blue

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Plug-in bridge - FBS 4-5 BU - 3036893



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 4, Color: blue

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Plug-in bridge - FBS 5-5 BU - 3036903



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 5, Color: blue

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## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Accessories

Plug-in bridge - FBS 10-5 BU - 3036916



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 10, Color: blue

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Plug-in bridge - FBS 20-5 BU - 3036929



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 20, Color: blue

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Plug-in bridge - FBS 50-5 BU - 3032114



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 50, Color: blue

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Plug-in bridge - FBS 2-5 GY - 3038969



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 2, Color: gray

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Plug-in bridge - FBS 3-5 GY - 3038972



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 3, Color: gray

---

## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Accessories

Plug-in bridge - FBS 4-5 GY - 3038985



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 4, Color: gray

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Plug-in bridge - FBS 5-5 GY - 3038998



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 5, Color: gray

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Plug-in bridge - FBS 10-5 GY - 3039007



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 10, Color: gray

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Plug-in bridge - FBS 20-5 GY - 3038671



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 20, Color: gray

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Plug-in bridge - FBS 50-5 GY - 3032127



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 50, Color: gray

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## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Accessories

Plug-in bridge - FBSR 2-5 - 3033702



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 2, Color: red

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Plug-in bridge - FBSR 3-5 - 3001591



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 3, Color: red

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Plug-in bridge - FBSR 4-5 - 3001592



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 4, Color: red

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Plug-in bridge - FBSR 5-5 - 3001593



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 5, Color: red

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Plug-in bridge - FBSR 10-5 - 3033710



Plug-in bridge, Pitch: 5.2 mm, Number of positions: 10, Color: red

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Labeled terminal marker

## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Accessories

Zack Marker strip, flat - ZBF 5 CUS - 0825025



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,LGS:FORTL.ZAHLEN - 0808671



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,QR:FORTL.ZAHLEN - 0808697



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,LGS:GERADE ZAHLEN - 0810821



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 2 - 20, 22 - 40, etc. up to 82 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,LGS:UNGERADE ZAHLEN - 0810863



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Accessories

Marker for terminal blocks - UC-TMF 5 CUS - 0824638



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 4.6 x 5.1 mm

Marker for terminal blocks - UCT-TMF 5 CUS - 0829658



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 4.4 x 4.7 mm

### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

### Mounting material

Strain relief - PDZ/2 - 3040562



Strain relief, Length: 3 mm, Width: 9.6 mm, Height: 23 mm, Number of positions: 2, Color: black

## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Accessories

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#### Strain relief - PDZ/4 - 3040575



Strain relief, Length: 3 mm, Width: 19.9 mm, Height: 23 mm, Number of positions: 4, Color: black

---

#### Latching - PR - 3040559



Latching, Number of positions: 1, Color: orange

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#### Latching - PR/2 - 3040630



Latching, Number of positions: 2, Color: orange

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#### Latching - PRT/2 - 3040631



Latching, can only be released using a screwdriver, Number of positions: 2, Color: orange

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#### Latching - PRZ - 3040614



Latching, Length: 3 mm, Width: 5.2 mm, Number of positions: 2, Color: orange

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### Screwdriver tools

## Plug - SPDB 2,5/ 1-R GNYE - 3043271

### Accessories

Screwdriver - ST-BW - 1207608



Actuation tool, for all 2.5 mm<sup>2</sup> - 4.0 mm<sup>2</sup> spring-cages

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### Shield connection

Shield connection clip - PSH 3- 6 - 3040591



Shield connection clip, Color: black

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Shield connection clip - PSH 5-10 - 3040601



Shield connection clip, Color: black

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### Terminal marking

Zack Marker strip, flat - ZBF 5:UNBEDRUCKT - 0808642



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.1 x 5.2 mm

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Marker for terminal blocks - UC-TMF 5 - 0818153



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 4.6 x 5.1 mm

# Plug - SPDB 2,5/ 1-R GNYE - 3043271

## Accessories

Marker for terminal blocks - UCT-TMF 5 - 0828744



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 4.4 x 4.7 mm

## Drawings

### Diagram

Derating  
curve  
for  
ST  
2,5/  
1P/IN-  
5P/1P,  
3,5/  
2P-  
5P/IN-  
2,5/1P  
1P/IN/  
1P  
and  
plug  
versions  
SPg. .  
versions  
SP... .

### Diagram

Derating  
curve  
for  
STTB  
2,5/  
2P/ATTRO/2P,  
STTB  
2,5/  
2P/ATTRO/4P  
and  
for  
plug  
plug



## Plug - SPDB 2,5/ 1-R GNYE - 3043271

versions  
SP... .

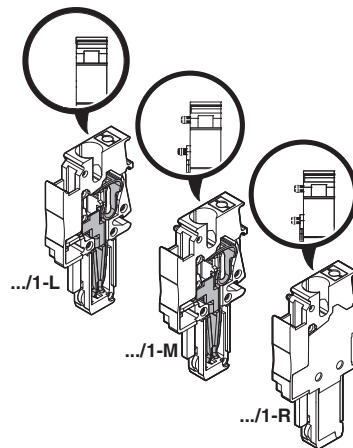
Diagram

Circuit diagram



Derating  
curve  
for  
ST  
2,5-4L/1P,  
ST  
2,5-4L/2P  
and  
for  
all  
plug  
versions  
SP... .

Schematic diagram



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

Наши преимущества:

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

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



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

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

«FORSTAR» (основан в 1998 г.)

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

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



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