

**B**  
TSS Series

**Slide Switches, Vertical, Single or Dual Actuator**

**MATERIAL SPECIFICATIONS:**

Contacts .....Copper w/gold plate over nickel  
 Case Material .....High temperature polyester (94-VO)  
 Actuator Material .....Polyester (94-VO)  
 Terminals .....Copper alloy tin/lead/nickel or gold/nickel  
 Terminal Seal .....Epoxy standard: single pole, optional: double pole

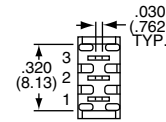
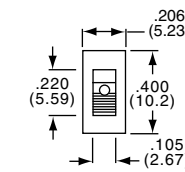
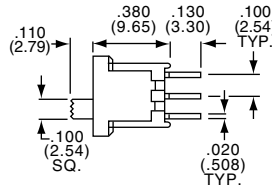
**TYPICAL PERFORMANCE CHARACTERISTICS:**

Contact Rating .....Gold: 0.4 VA max. @ 20 VDC or peak AC  
 Initial Contact Resistance .....20 Milliohms max.  
 Contact Timing .....Non-shorting  
 Insulation Resistance .....1,000 Megohms min. @ 500 VDC  
 Dielectric Strength .....1,000 Volts RMS @ sea level  
 Plunger/Actuator Travel .....0.120" (3.05)  
 Life Expectancy .....Up to 60,000-80,000 Cycles

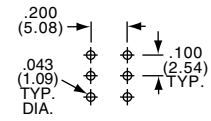
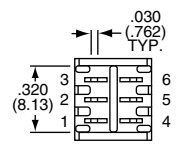
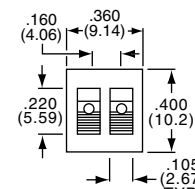
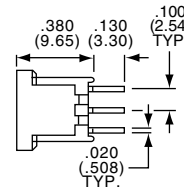
**ENVIRONMENTAL SPECIFICATIONS:**

Operating Temperature .....-4°F to + 176°F (-20°C to + 80°C)  
 Storage Temperature .....-4°F to + 176°F (-20°C to + 80°C)

**SPST/SPDT**



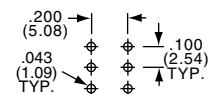
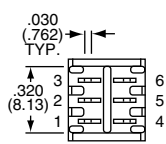
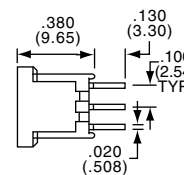
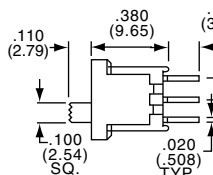
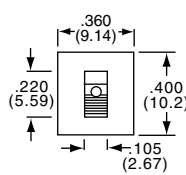
**SPST/SPDT (DUAL)**



| Extended Actuator Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | On | None | Off | Extended Dual Actuator Tyco Electronics | Alcoswitch  | Type     | Act. Code P. M6 | On | None | Off |
|------------------------------------|------------|------|-----------------|----|------|-----|---|-------------|----------|-----------------|----|------|-----|
| 1437578-3                          | TSS11AGPC  | SPST | A               | On | None | Off | —                                       | TSD21AAGPC  | 2 x SPST | A               | On | None | Off |
| 1-1437589-0                        | TSS11DGPC  | SPDT | D               | On | None | On  | 1437579-5                               | TSD21DDGPC  | 2 x SPDT | D               | On | None | On  |
| 1-1437579-4                        | TSS11EGPC  | SPDT | E               | On | Off  | On  | <b>Flush Dual Actuator</b>              |             |          |                 |    |      |     |
| —                                  | TSS11AG1PC | SPST | A               | On | None | Off | —                                       | TSD21DDG1PC | 2 x SPDT | D               | On | None | On  |
| 1437579-8                          | TSS11DG1PC | SPDT | D               | On | None | On  |   |             |          |                 |    |      |     |
| 1-1437579-2                        | TSS11EG1PC | SPDT | E               | On | Off  | On  |   |             |          |                 |    |      |     |

Note: No center terminals on "A" action switches.

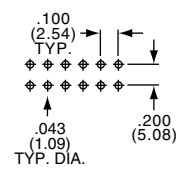
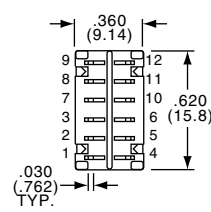
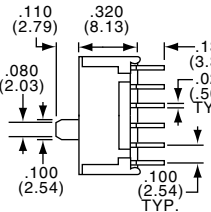
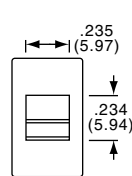
**DPST/DPDT**



| Extended Actuator Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | On | None | Off | Flush Actuator Tyco Electronics | Alcoswitch | Act. Code Type | P. M6 | On | None | Off |
|------------------------------------|------------|------|-----------------|----|------|-----|---------------------------------|------------|----------------|-------|----|------|-----|
| 1-1437579-6                        | TSS21KGPC  | DPST | K               | On | None | Off | —                               | TSS21KG1PC | DPST           | K     | On | None | Off |
| 1-1437579-9                        | TSS21NGPC  | DPDT | N               | On | None | On  | 1-1437579-7                     | TSS21NG1PC | DPDT           | N     | On | None | On  |
| 2-1437579-3                        | TSS21PGPC  | DPDT | P               | On | Off  | On  | 2-1437579-1                     | TSD21RG1PC | DPDT           | P     | On | Off  | On  |

Note: No center terminals on "K" action switches.

**4PDT**



| Extended Actuator Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | On | None | Off |
|------------------------------------|------------|------|-----------------|----|------|-----|
| 2-1437579-5                        | TSS41NGPC  | 4PDT | N               | On | None | On  |

**Slide Switches, Right Angle, Single or Dual Actuator**

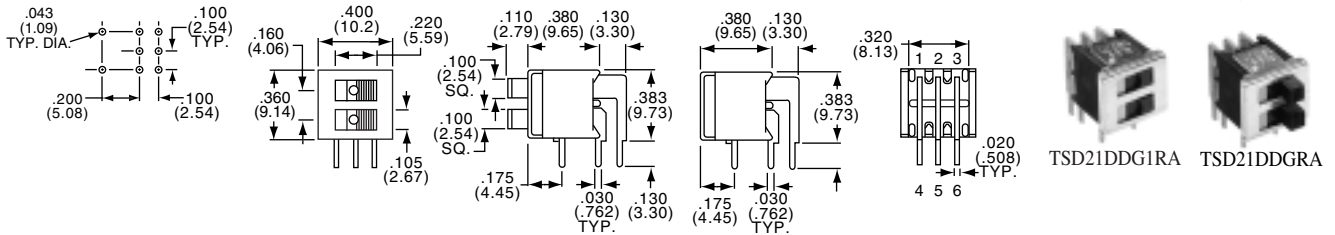
SEE PAGE B18 FOR PRODUCT SPECIFICATIONS

SPDT



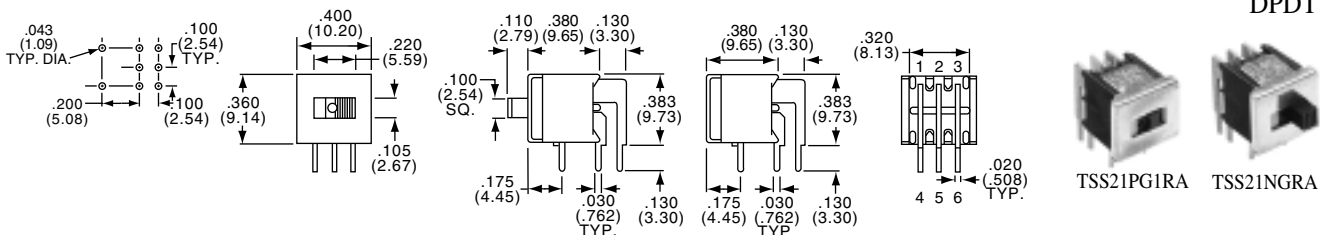
| Extended Actuator |            |      | Act. Code |    |      | Flush Actuator   |            |      | Act. Code |    |      |    |
|-------------------|------------|------|-----------|----|------|------------------|------------|------|-----------|----|------|----|
| Tyco Electronics  | Alcoswitch | Type | P. M6     | On | None | Tyco Electronics | Alcoswitch | Type | P. M6     | On | None | On |
| 1-1437579-1       | TSS11DGRA  | SPDT | D         | On | None | 1437579-9        | TSS11DG1RA | SPDT | D         | On | None | On |
| 1-1437579-5       | TSS11EGRA  | SPDT | E         | On | Off  | 1-1437579-3      | TSS11EG1RA | SPDT | E         | On | Off  | On |

SPDT (DUAL)



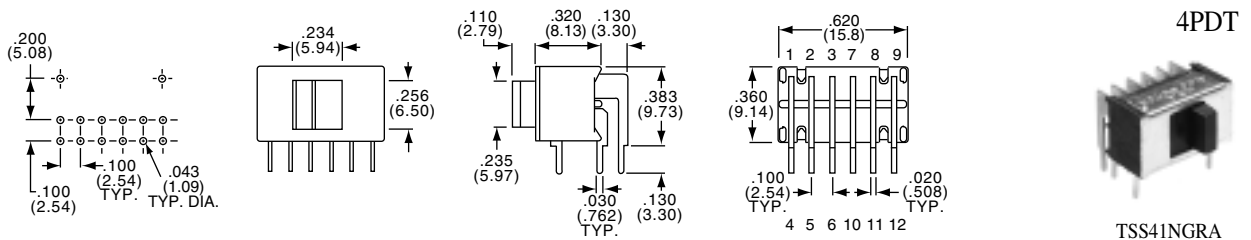
| Extended Actuator |            |          | Act. Code |    |      | Flush Actuator   |             |          | Act. Code |    |      |    |
|-------------------|------------|----------|-----------|----|------|------------------|-------------|----------|-----------|----|------|----|
| Tyco Electronics  | Alcoswitch | Type     | P. M6     | On | None | Tyco Electronics | Alcoswitch  | Type     | P. M6     | On | None | On |
| 1437579-6         | TSD21DDGRA | 2 x SPDT | D         | On | None | 1437579-4        | TSD21DDG1RA | 2 x SPDT | D         | On | None | On |
| 1437579-7         | TSD21EEGRA | 2 x SPDT | E         | On | Off  | —                | TSD21EEG1RA | 2 x SPDT | E         | On | Off  | On |

DPDT



| Extended Actuator |            |      | Act. Code |    |      | Flush Actuator   |            |      | Act. Code |    |      |    |
|-------------------|------------|------|-----------|----|------|------------------|------------|------|-----------|----|------|----|
| Tyco Electronics  | Alcoswitch | Type | P. M6     | On | None | Tyco Electronics | Alcoswitch | Type | P. M6     | On | None | On |
| —                 | TSS21PAGRA | SP3T | PA        | On | On   | —                | TSS21NG1RA | DPDT | N         | On | None | On |
| 2-1437579-0       | TSS21NGRA  | DPDT | N         | On | None | —                | TSS21PG1RA | DPDT | P         | On | Off  | On |
| 2-1437579-4       | TSS21PGRA  | DPDT | P         | On | Off  | —                | —          | —    | —         | —  | —    | —  |

4PDT



| Extended Actuator |            |      | Act. Code |    |      |    |
|-------------------|------------|------|-----------|----|------|----|
| Tyco Electronics  | Alcoswitch | Type | P. M6     | On | None | On |
| 2-1437579-7       | TSS41NGRA  | 4PDT | N         | On | None | On |

**Slide Switches, Instrumentation Grade**

**MATERIAL SPECIFICATIONS:**

Contacts .....Gold or silver over nickel/copper alloy  
 Frame Material .....Tin plated steel  
 Terminals/Fixed Contacts.....Gold or silver over nickel/over copper alloy  
 Terminal Seal .....Epoxy  
 Actuator Material .....POM-UL94HB

**ENVIRONMENTAL SPECIFICATIONS:**

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)  
 Storage Temperature.....-40°F to +212°F (-40°C to +100°C)  
 Solder Heat Resistance .....See page M3-4

**TYPICAL PERFORMANCE CHARACTERISTICS:**

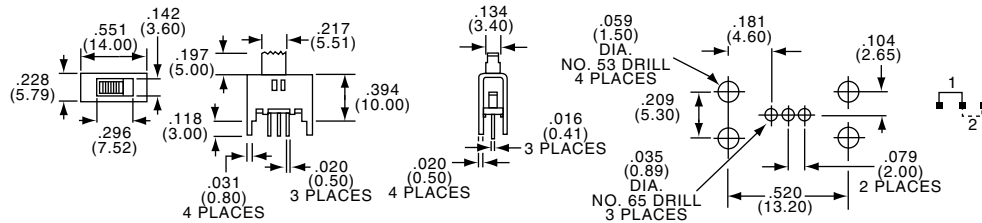
Contact Rating .....Gold: 0.4 VA 20 VDC or peak AC  
 Silver: 300 mA @ 125 VAC  
 Initial Contact Resistance .....20 Milliohms max.  
 Contact Timing .....Make before break  
 Insulation Resistance .....1,000 Megohms min.  
 Dielectric Strength .....500 VAC  
 Actuation Force .....100 to 600 Grams  
 Life Expectancy .....Up to 15,000 Cycles  
 Travel .....0.079" (2.01) (unless otherwise specified)

**B**  
MSS Series

**SPDT**



MSS1200



MSS1200R



| Tyco Electronics | Alcoswitch | Plating | Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|------------------|------------|---------|
| 5-1437576-0      | MSS1200    | Silver  | 5-1437576-2      | MSS1200R   | Silver  |
| 5-1437576-1      | MSS1200G   | Gold    | 5-1437576-3      | MSS1200RG  | Gold    |

**SP3T**



MSS1300



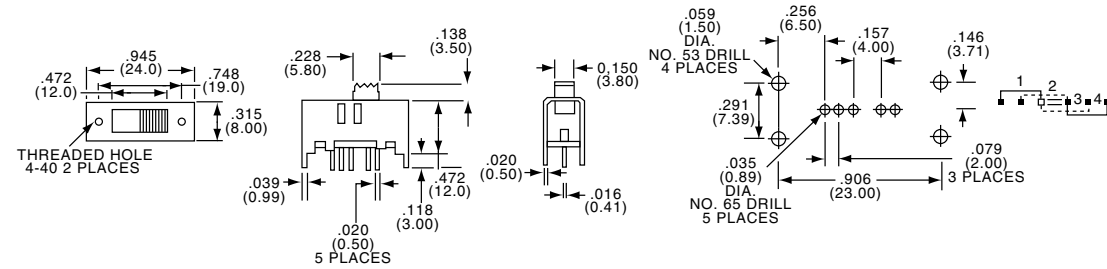
MSS1300R



| Tyco Electronics | Alcoswitch | Plating | Tyco Electronics | Alcoswitch | Plating | Total Actuator Travel |
|------------------|------------|---------|------------------|------------|---------|-----------------------|
| 5-1437576-4      | MSS1300    | Silver  | 5-1437576-6      | MSS1300R   | Silver  | .098(2.50)            |
| 5-1437576-5      | MSS1300G   | Gold    | 5-1437576-7      | MSS1300RG  | Gold    | .098(2.50)            |

**Slide Switches, Instrumentation Grade**

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS

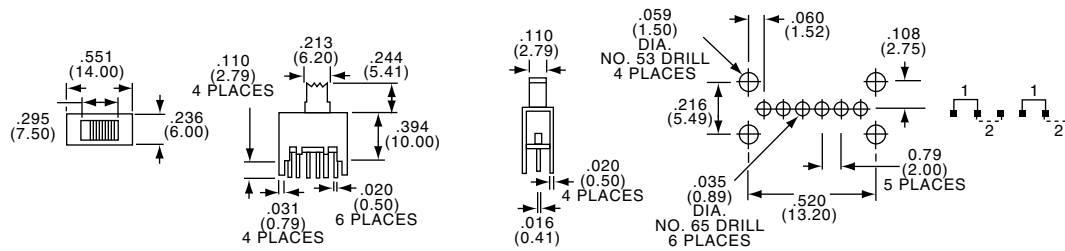


SP4T



MSS1400

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 5-1437576-8      | MSS1400    | Silver  |
| 1571423-1        | MSS1400G   | Gold    |

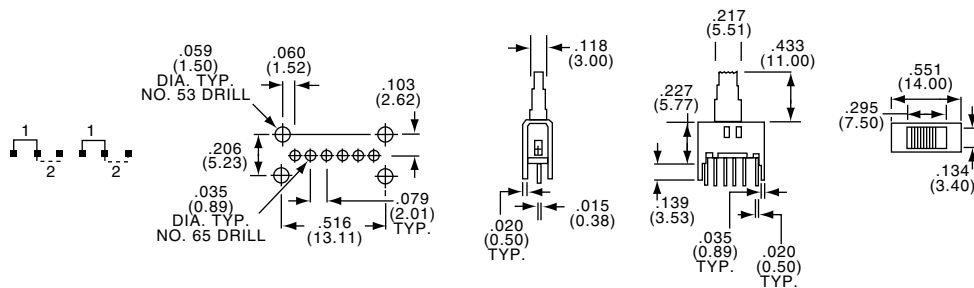


DPDT



MSS2225

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 6-1437576-3      | MSS2225    | Silver  |
| 6-1437576-4      | MSS2225G   | Gold    |



DPDT



MSS2250

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 6-1437576-5      | MSS2250    | Silver  |
| 6-1437576-6      | MSS2250G   | Gold    |

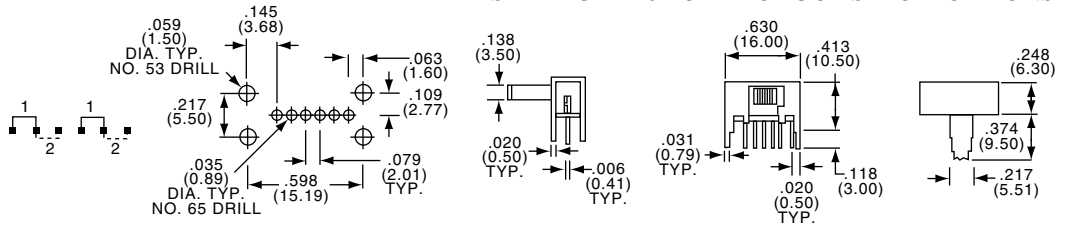
**Slide Switches, Instrumentation Grade**

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS

DPDT



MSS2250R

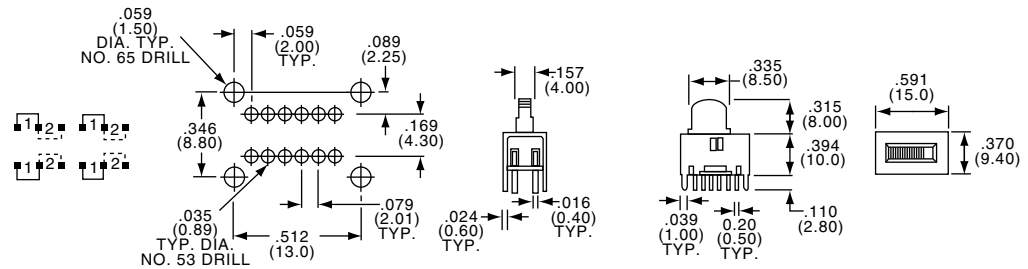


| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 6-1437576-7      | MSS2250R   | Silver  |
| 6-1437576-8      | MSS2250RG  | Gold    |

4PDT



MSS4200

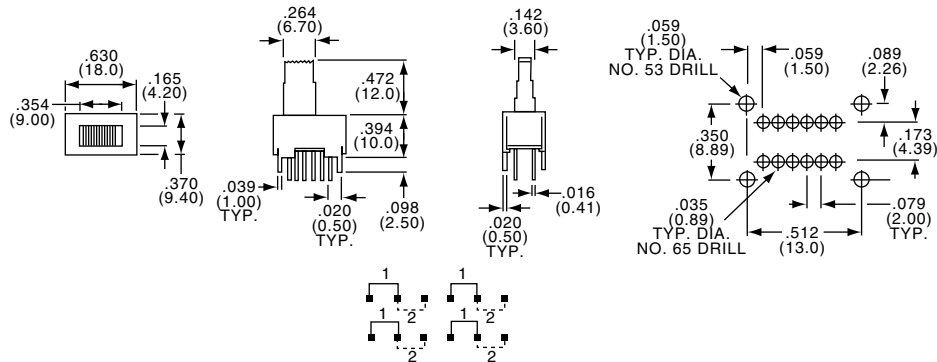


| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 6-1437576-9      | MSS4200    | Silver  |
| 7-1437576-0      | MSS4200G   | Gold    |

4PDT



MSS4250



| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 7-1437576-4      | MSS4250    | Silver  |

**Slide Switches, Instrumentation Grade**

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS



4PDT



MSS4200R

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 7-1437576-2      | MSS4200R   | Silver  |
| 7-1437576-3      | MSS4200RG  | Gold    |

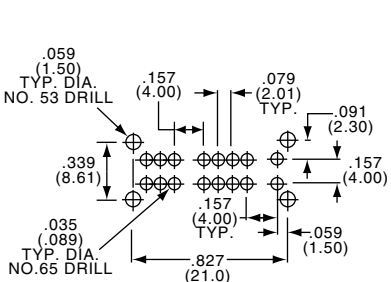
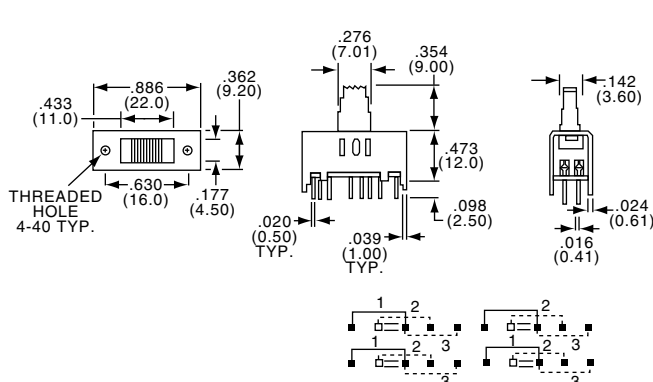


4P3T



MSS4300

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 7-1437576-5      | MSS4300    | Silver  |
| 7-1437576-6      | MSS4300G   | Gold    |



4P3T



MSS4335

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 7-1437576-9      | MSS4335    | Silver  |

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).



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