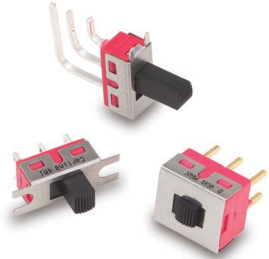


4S1 & 4SS-Series
Sub-Miniature &
Sealed Sub-Miniature
Slide Switches



4M1-Series
Miniature Slide Switch

Specifications

Contact Rating refer to ordering scheme
 Electrical Life 30,000 make & break cycles at full load
 Contact Resistance. 10 mΩ max. initial @ 2-4 VDC
 100mA for both silver & gold plated contacts.
 Insulation Resistance . . . 1000 MΩ min.
 Dielectric Strength 1500 Volts RMS @ sea level
 Operating Temperature . . -30°C to +85°C
 Solder Heat Resistance. . . MIL-STD-202, Method 210
 Actuator Travel 25°

Materials

Case Diallyl phthalate (DAP) (UL 94V-0)
 Slide Handle. Nylon
 Housing. Stainless Steel
 Terminal Seal Epoxy

4S1-Series Ordering Scheme

4S1 - **FSP** **1** - **M6** **Q** **E**

Series Poles Circuit Termination Contact Seal Packaging

1 SERIES

4S1 Sub-Miniature Slide Switch

2 POLES

FSP single pole

3 CIRCUIT

	Switching Position:		
	2-1	OPEN	2-3
1	ON	NONE	ON
3	ON	OFF	ON

4 TERMINATION

M2 PCB
M6 PC Mount, 90° horizontal

5 CONTACT

	Material	Terminal Plating	Rating
G	silver ¹	gold over silver ³	3A@125VAC or 28VDC; 1.5A @ 250VAC
K	gold ²	tin-lead ⁴	0.4VA max. @20V max (AC/DC)
P	silver ¹	tin-lead ⁴	3A@125VAC or 28VDC; 1.5A @ 250VAC
Q	silver ¹	silver ¹	3A@125VAC or 28VDC; 1.5A @ 250VAC
R	gold ²	gold ²	0.4VA max. @20V max (AC/DC)

NOTE:

Tin-lead option available with PC type terminations only.
 1 Moveable contact & terminals: copper alloy, silver plate
 2 Moveable contact & terminals: copper alloy with gold plate over nickel plate
 3 Terminals: silver plate with outer layer in gold plating

6 EPOXY SEAL

E epoxy seal

7 PACKAGING

Switches are bulk packed, unless **T/R** is specified at the end of the part number.
T/R tape reel - 500 pieces per reel

4SS-Series Ordering Scheme

4SS - FSP 1 - M6 G E

1
Series
2
Poles
3
Circuit
4
Termination
5
Contact
6
Seal
7
Packaging

1 SERIES

4SS Sealed Sub-Miniature Slide Switch

2 POLES

FSP single pole

3 CIRCUIT

Switching Position:

	2-1	OPEN	2-3
1	ON	NONE	ON
3	ON	OFF	ON

4 TERMINATION

Termination options for switches with brick color actuators

M2 PCB

M6 PC Mount, 90° horizontal

M7 PC Mount, 90° vertical

Termination options for switches with white color actuators

L6 Surface Mount, 90° flat

S6 Surface Mount, 90° horizontal

S7 Surface Mount, 90° vertical

5 CONTACT

	Material	Terminal Plating	Rating
G	silver ¹	gold over silver	3A @ 125VAC or 28VDC; 1.5A @ 250VAC
K	gold ²	tin-lead ⁴	0.4VA max. @ 20V max (AC/DC)
P	silver ¹	tin-lead	3A @ 125VAC or 28VDC; 1.5A @ 250VAC
R	gold ²	gold ²	0.4VA max. @ 20V max (AC/DC)

NOTE:

Tin-lead option available with PC type terminations only.

1 Moveable contact & terminals: copper alloy, silver plate

2 Moveable contact & terminals: copper alloy with gold plate over nickel plate

3 Terminals: silver plate with outer layer in gold plating

4 Outer terminals: copper alloy with tin-lead over nickel plate

6 EPOXY SEAL

E epoxy seal

7 PACKAGING

Switches are bulk packed, unless **T/R** is specified at the end of the part number.

T/R tape reel - 500 pieces per reel

4M1-Series Ordering Scheme

4M1 - SSP 3 - S1 / 2 - M6 Q E

1
Series
2
Poles
3
Circuit
4
Actuator
5
Actuator
Color
6
Termination
7
Contact
8
Seal

1 SERIES

4M1 Miniature Slide Switch

2 POLES

SSP single pole **SDP** double pole

3 CIRCUIT Switching Position

	2-1, 5-4	OPEN	2-3, 5-6
1	ON	NONE	ON
3	ON	OFF	ON

4 ACTUATOR

S1 .201 [5.10] high
S2 .285 [7.25] high
S3 .370 [9.40] high
S4 .140 [3.55] high
S5 .053 [1.35] high (for DPDT only)
S6 .482 [12.25] high
S7 .311 [7.90] high
T1 .201 [5.10] high (for DPDT only)

5 ACTUATOR COLOR¹

1 white	3 red	5 yellow	7 blue	9 gray
2 black	4 orange	6 green	8 brown	

1 White, black & red are standard. Other colors available for quantities of 5K or more.

6 TERMINATION

M1 Solder Lug M2 PCB M3 Quick Connect M5-1 Wire Wrap .750 [19.05] M5-2 Wire Wrap [24.48]	M5-3 Wire Wrap [10.80] M5-4 Wire Wrap [26.97] M6 PC Mount, 90° horizontal M7 PC Mount, 90° vertical VS2 PC Mount, U bracket, .620 mounting x .460 high
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7 CONTACT

	Material	Terminal Plating	Rating	Approvals
G	silver ¹	gold over silver ³	5A @ 125VAC or 28VDC; 2A @ 250VAC	UL, CSA
K	gold ²	tin-lead ⁴	0.4VA max. @ 20V max (AC/DC)	
P	silver ¹	tin-lead ⁴	5A @ 125VAC or 28VDC; 2A @ 250VAC	UL, CSA
Q	silver ¹	silver ¹	5A @ 125VAC or 28VDC; 2A @ 250VAC	UL, CSA
R	gold ²	gold ²	0.4VA max. @ 20V max (AC/DC)	

NOTE:

Tin-lead option available with PC type terminations only.

1 Moveable contact & terminals: copper alloy, silver plate

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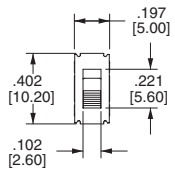
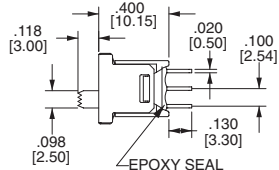
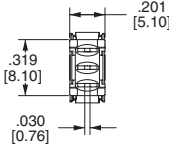
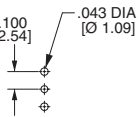
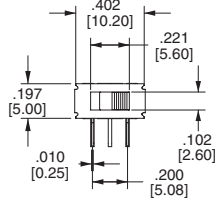
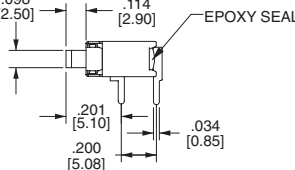
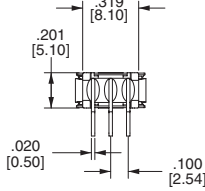
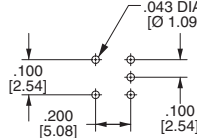
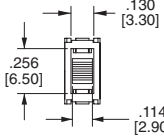
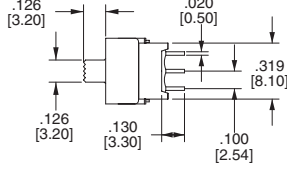
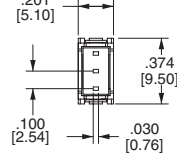
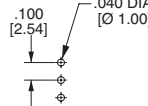
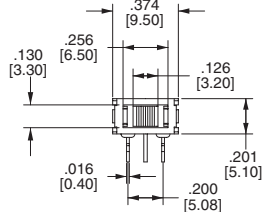
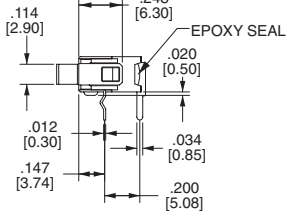
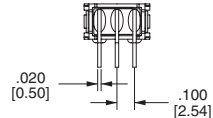
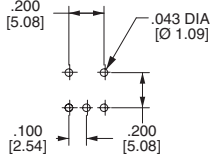
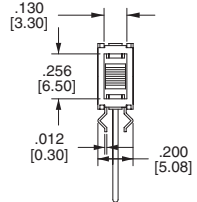
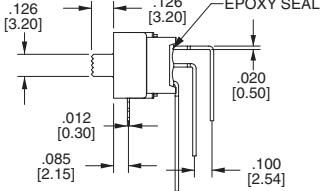
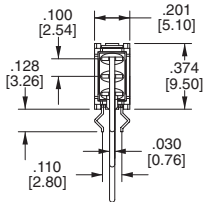
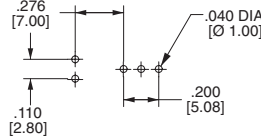
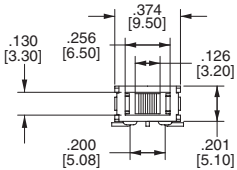
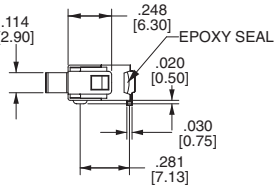
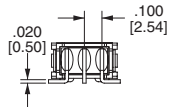
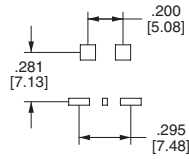
3 Terminals: silver plate with outer layer in gold plating

4 Outer terminals: copper alloy with tin-lead over nickel plate

8 EPOXY SEAL

E epoxy seal

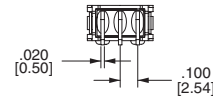
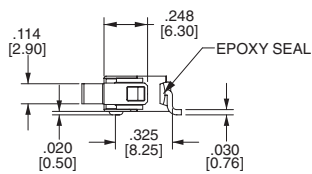
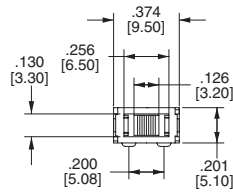
4S-Series Dimensional Specifications: in. [mm]

4S1-Series		TERMINATION		PC MOUNTING
M2				
M6				
4SS-Series		TERMINATION		PC MOUNTING
M2				
M6				
M7				
L6				

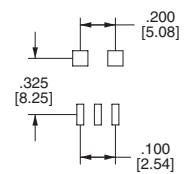
4SS-Series Dimensional Specifications: in. [mm]

TERMINATION

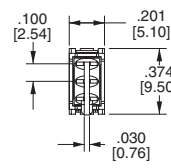
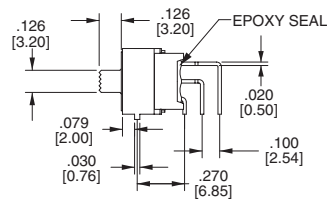
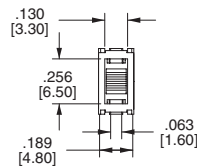
S6



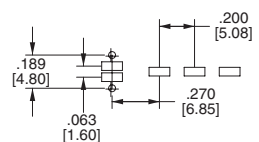
PC MOUNTING



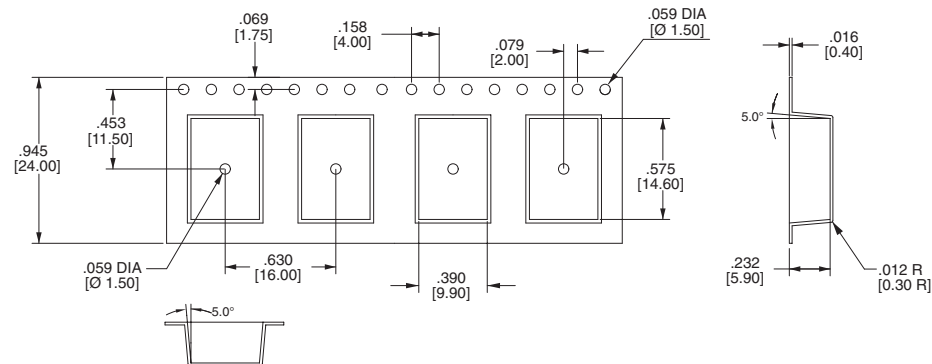
S7



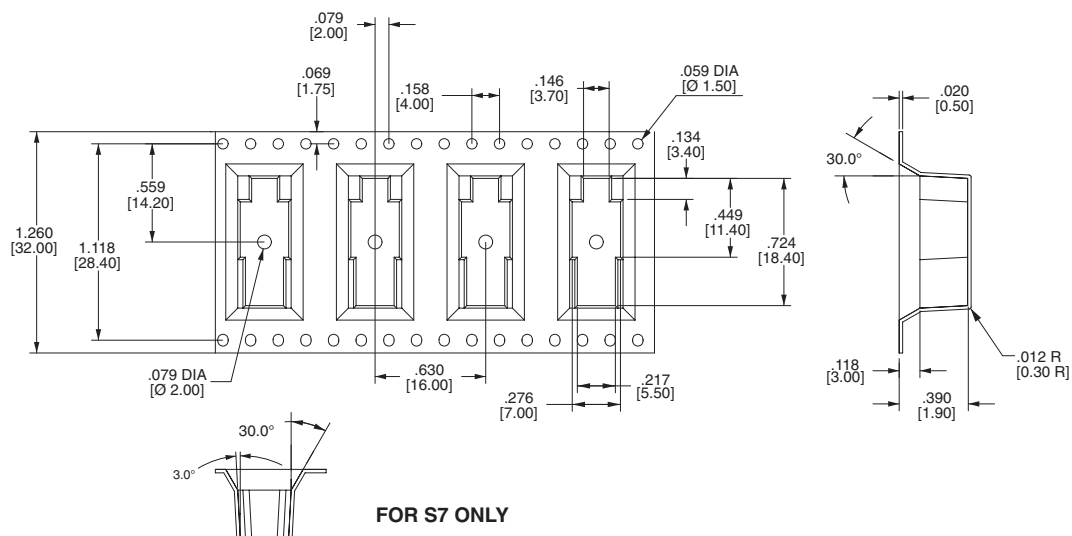
PC MOUNTING



REEL TAPING

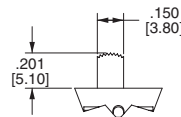
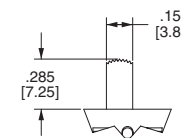
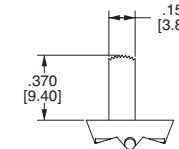
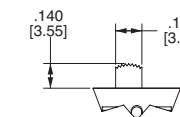
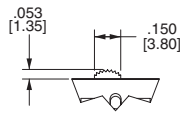
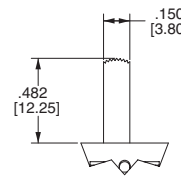
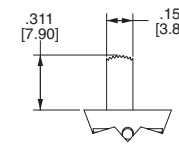
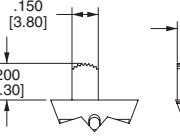


FOR S6,L6 ONLY



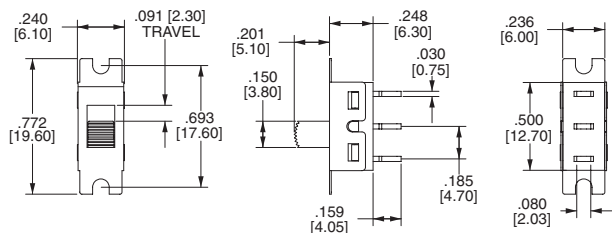
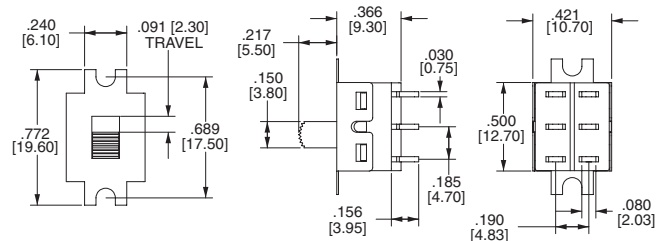
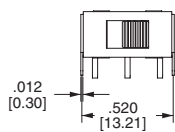
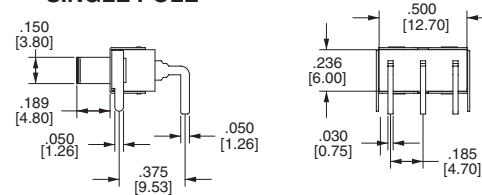
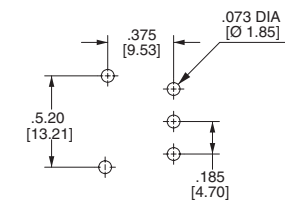
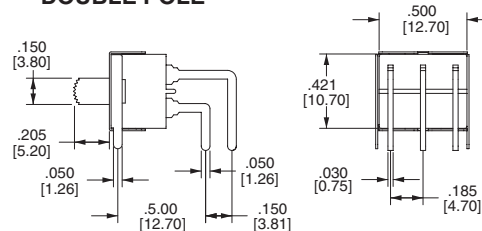
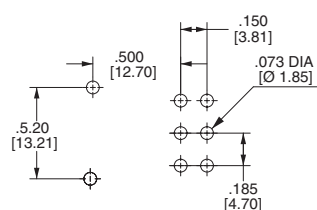
FOR S7 ONLY

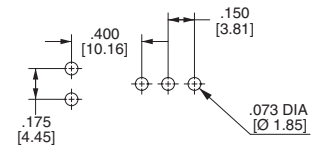
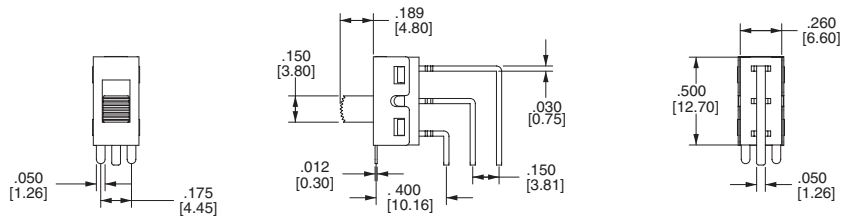
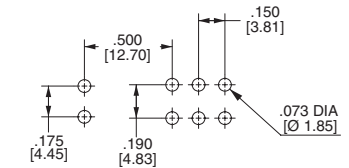
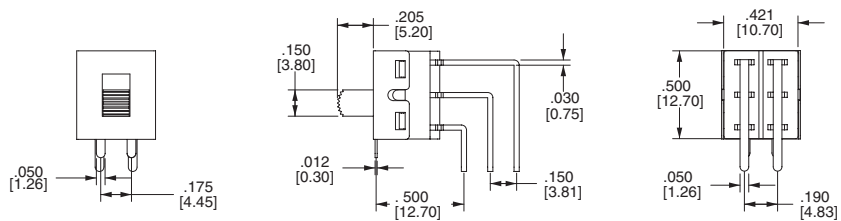
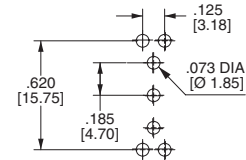
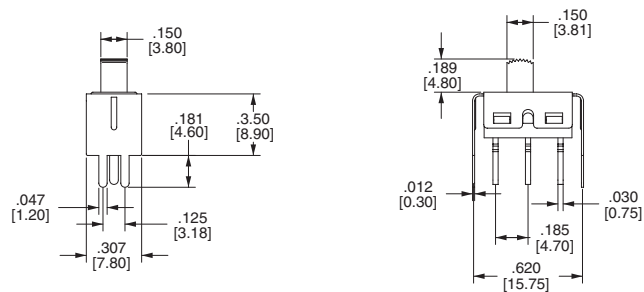
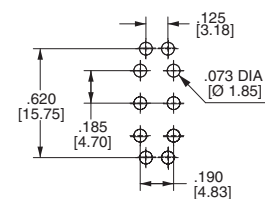
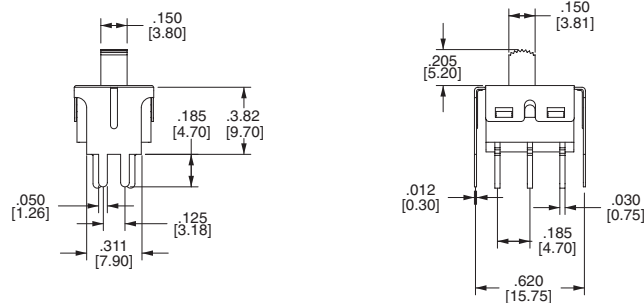
4M1-Series Dimensional Specifications: in. [mm]
ACTUATOR

S1 	S2 	S3 	S4 
S5 (For DPDT Only) 	S6 	S7 	T1 (For DPDT Only) 

TERMINATION

M1 STANDARD THK .030 [0.75]	M2 THK .030 [0.75]	M3 QUICK CONNECT THK .030 [0.75]	M5 THK .030 [0.75]	<table><tr><th>OPTION CODE</th><th>DIM. "A"</th></tr><tr><td>M5-1</td><td>.750 [19.05]</td></tr><tr><td>M5-2</td><td>.964 [24.48]</td></tr><tr><td>M5-3</td><td>.425 [10.80]</td></tr><tr><td>M5-4</td><td>1.062 [26.97]</td></tr></table>	OPTION CODE	DIM. "A"	M5-1	.750 [19.05]	M5-2	.964 [24.48]	M5-3	.425 [10.80]	M5-4	1.062 [26.97]
OPTION CODE	DIM. "A"													
M5-1	.750 [19.05]													
M5-2	.964 [24.48]													
M5-3	.425 [10.80]													
M5-4	1.062 [26.97]													

SINGLE POLE

DOUBLE POLE

M6

SINGLE POLE

PC MOUNTING

DOUBLE POLE

PC MOUNTING


4M1-Series Dimensional Specifications: in. [mm]
TERMINATION
M7
SINGLE POLE
PC MOUNTING

DOUBLE POLE
PC MOUNTING

VS2
SINGLE POLE
PC MOUNTING

DOUBLE POLE
PC MOUNTING


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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