General Specifications

Electrical Capacity (Resistive Load)

Logic Level: 0.4VA maximum @ 28V AC/DC maximum
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)
Note: Find additional explanation of operating range in Supplement section.

Other Ratings

Contact Resistance: 50 milliohms maximum
Insulation Resistance: 500 megohms minimum @ 500V DC
Dielectric Strength: 500V AC minimum for 1 minute minimum
Mechanical Life: 50,000 operations minimum
Electrical Life: 50,000 operations minimum
Nominal Operating Force: 2.55N
Contact Timing: Nonshorting (break-before-make)
Travel: Pretravel .028" (0.7mm); Overtravel .016" (0.4mm); Total Travel .043" (1.1mm)

Materials & Finishes

Plunger: Polyacetal
Case Housing: Glass fiber reinforced polyamide
Support Bracket: Tin plated phosphor bronze
Movable Contact: Phosphor bronze with gold plating
Stationary Contacts: Brass with gold plating
Terminals: Brass with gold plating

Environmental Data

Operating Temp Range: –30°C through +85°C (–22°F through +185°F)
Humidity: 90 ~ 95% humidity for 96 hours @ 40°C (104°F)
Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
Shock: 50G (490m/s^2) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

Cap Installation Force: 49.03N (11.2 lbf) maximum downward force on actuator

PCB Processing

Soldering: Wave Soldering Recommended: See Profile A in Supplement section.
Manual Soldering: See Profile B in Supplement section.
Cleaning: Automated cleaning. See Cleaning specifications in Supplement section.

Standards & Certifications

The AB Series pushbuttons have not been tested for UL recognition or CSA certification.
These switches are designed for use in a low-voltage, low-current, logic-level circuit.
When used as intended in a logic-level circuit, the results do not produce hazardous energy.

Distinctive Characteristics

Subminiature size (1/3 size of Series M switches) saves space on PC boards.

Specifically developed for logic-level applications.

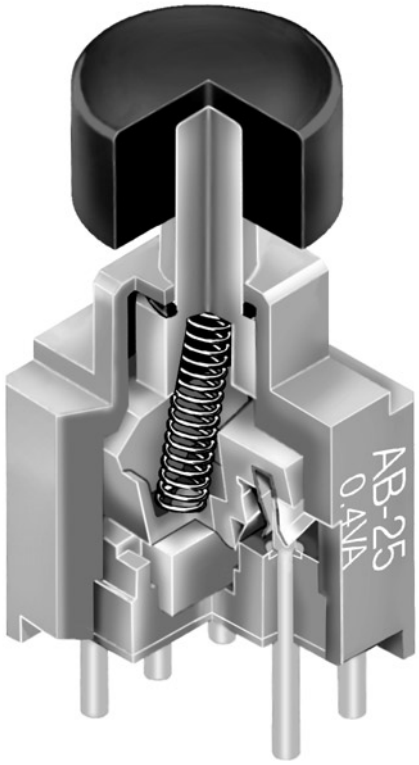
Totally sealed body construction prevents contact contamination and allows time- and money-saving automated soldering and cleaning.

Award-winning STC contact mechanism with benefits unavailable in conventional mechanisms: smoother, positive detent actuation, increased contact stability and unparalleled logic-level reliability. (Additional STC details in Terms & Acronyms; see Supplement section.)

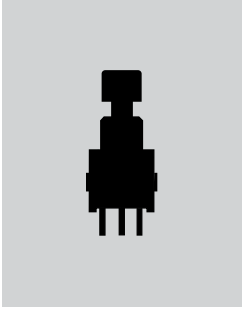
Molded-in, epoxy sealed or ultrasonically welded terminals lock out flux, solvents, and other contaminants.

.100" x .100" (2.54mm x 2.54mm) terminal spacing conforms to standard PC board grid spacing.

Matching indicators available.



Actual Size



TYPICAL SWITCH ORDERING EXAMPLE

AB 2 5 A P — H A

Poles

1	SPST SPDT
2	DPDT

Circuits

1	OFF	(ON)
5	ON	(ON)

( ) = Momentary

PC Terminals

P	Straight
B	Straight with Bracket
B1	Straight with Inline Bracket (SP only)
H	Right Angle with Bracket
V	Vertical with Bracket
V1	Vertical with Inline Bracket (SP only)

Plungers

A	.213″ (5.4mm) Long
*B	.183″ (4.65mm) Long
*C	.080″ (2.03mm) Long (cannot be used with cap)

* Available in single pole only

Caps

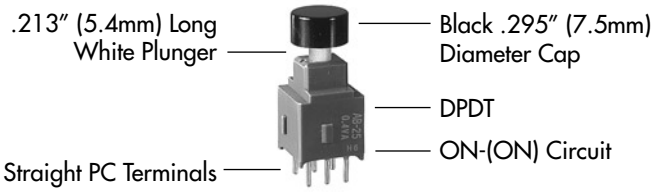
F	.201″ (5.1mm) Diameter
H	.295″ (7.5mm) Diameter

Cap Colors

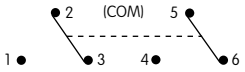
A	Black
B	White
C	Red

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

AB25AP-HA

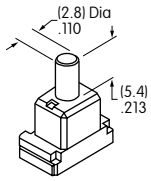


POLES & CIRCUITS

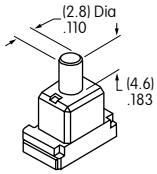
Pole	Model	Plunger Position ( ) = Momentary: Normal (Slot)	Plunger Position: Down	Connected Terminals: Normal (Slot)	Connected Terminals: Down	Throw & Schematics
						Note: Terminal numbers are not actually on the switch.
SP	**AB11**	OFF	(ON)	OPEN	3-1	SPST 
SP	**AB15**	ON	(ON)	2-3	2-1	SPDT 
DP	**AB25**	ON	(ON)	2-3 5-6	2-1 5-4	DPDT 

PLUNGERS

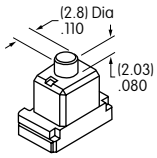
A **.213" (5.4mm) Long**



B **.183" (4.6mm) Long (on SP only)**



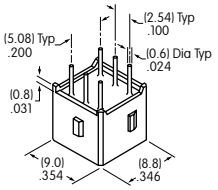
C **.080" (2.03mm) Long (on SP only)**



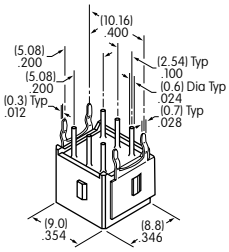
Standard Plunger Color: White Contact factory for red or black options.

PC TERMINALS

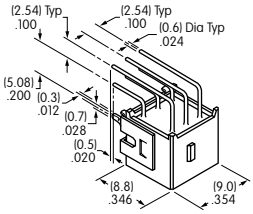
P **Straight**



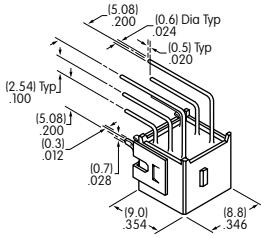
B **Straight with Bracket**



H **Right Angle with Bracket**



V **Vertical with Bracket**



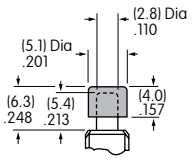
Use of a support bracket is recommended to increase PCB mounting strength and stability.
B1 & V1 terminal dimensions appear on the pushbutton drawings which follow.

SLIP-ON CAPS

F **AT475 .201" (5.1mm) Diameter Cap**

Material: Polyamide

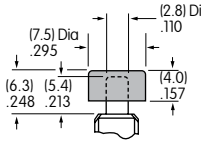
For use with plungers A & B only.



H **AT496 .295" (7.5mm) Diameter Cap**

Material: Polyamide

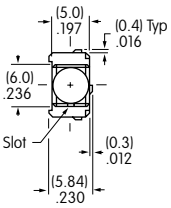
For use with plungers A & B only.

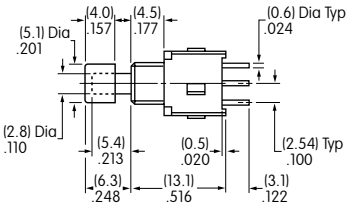


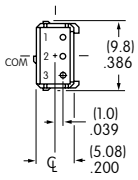
Colors Available: **A** Black **B** White **C** Red

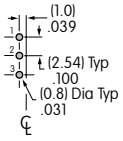
TYPICAL SWITCH DIMENSIONS

Straight PC — Single Pole





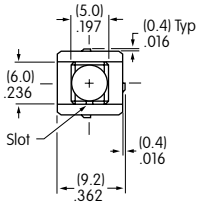


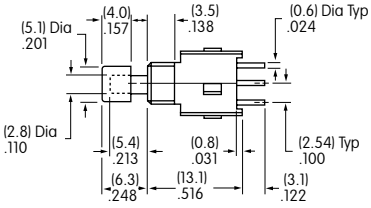


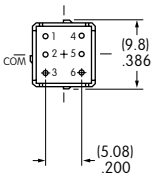
AB15AP-FA

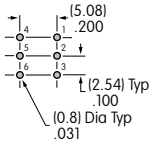
AB11 model does not have terminal 2.

Straight PC — Double Pole



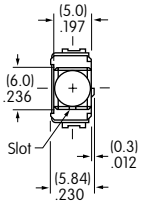


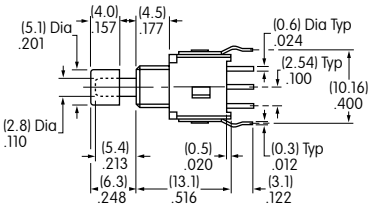


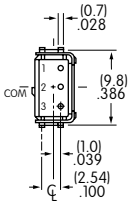


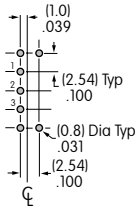
AB25AP-FA

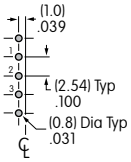
Straight PC • Bracket — Single Pole







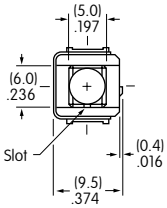


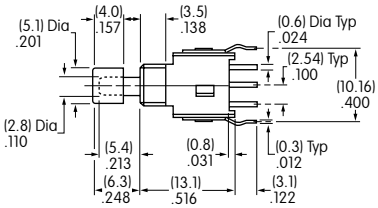


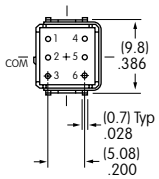
AB15AB-FA

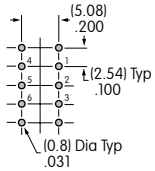
B Terminals B1 Terminals

Straight PC • Bracket — Double Pole



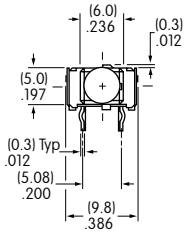


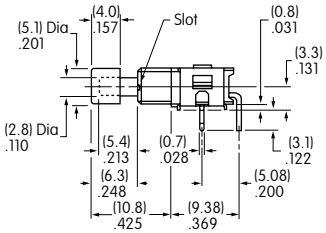


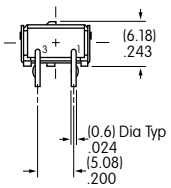


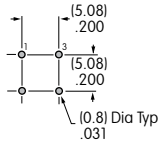
AB25AB-FA

Right Angle PC — Single Pole (Single Throw)







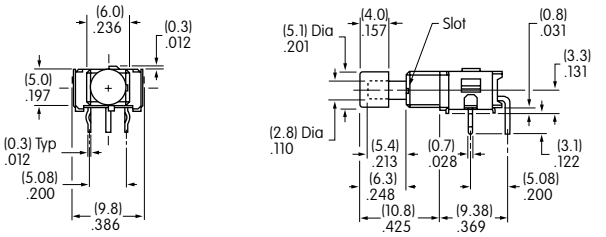


AB11AH-FA

TYPICAL SWITCH DIMENSIONS

Single Pole (Double Throw)

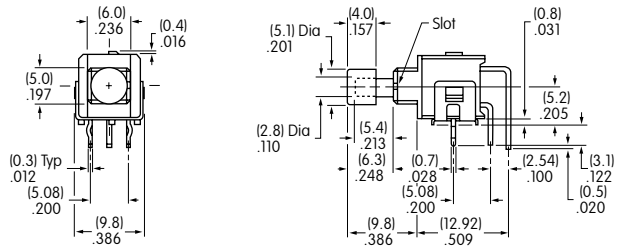
Right Angle PC



AB15AH-FA

Double Pole

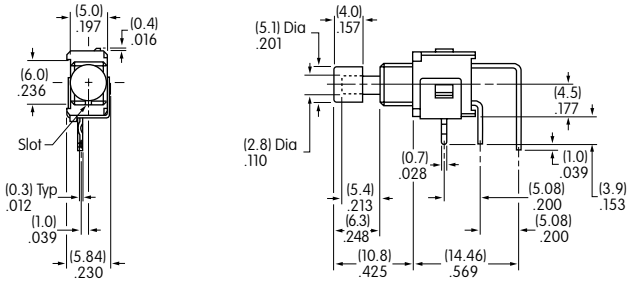
Right Angle PC



AB25AH-FA

Single Pole

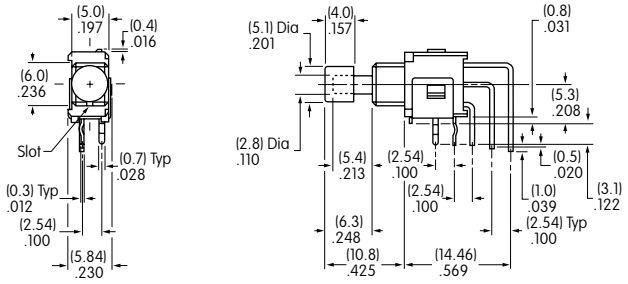
Vertical PC • Inline Bracket



AB11 model does not have terminal 2. AB11AV1-FA

Single Pole

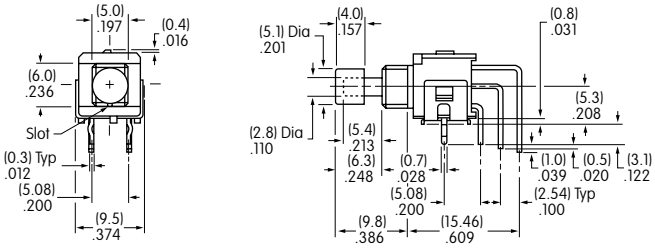
Vertical PC

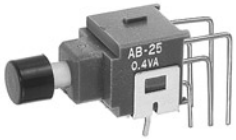


AB11 model does not have terminal 2. AB15AV-FA

Double Pole

Vertical PC





AB25AV-FA

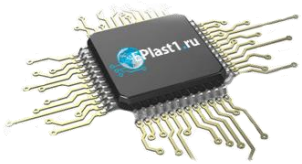
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.