

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: 1,000 megohms minimum @ 500V DC
Dielectric Strength: 1,000V AC minimum between contacts for 1 minute minimum;
1,500V AC minimum between contacts & case for 1 minute minimum

Mechanical Life: 200,000 operations minimum
Electrical Life: 100,000 operations minimum

Nominal Operating Force: Single Pole: 1.96N
Double Pole: 2.94N
Travel: Pretravel .020" (0.5mm); Overtravel .020" (0.5mm); Total Travel .039" (1.0mm)

Materials & Finishes

Plunger: Brass with nickel plating
Bushing: Brass with nickel plating
Frame: Stainless steel
Case: Glass fiber reinforced polyamide
Movable Contacts: Copper with gold plating
Stationary Contacts: Phosphor bronze with gold plating
Terminals: Brass with gold plating

Environmental Data

Operating Temp Range: -10°C through +70°C (+14°F through +158°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/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

Mounting Torque: 1.47Nm (13.0 lb•in) for double nut; 0.68Nm (6.0 lb•in) for single nut
Cap Installation Force: 78.5N (17.65 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: These devices are not process sealed. Hand clean locally using alcohol based solution.

Standards & Certifications

The DB Series pushbuttons have not been tested for UL recognition or CSA certification. These switches are designed for use in 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

Both PCB and panel mounting options available.

Choice of cap sizes in .315" (8.0mm) and .394" (10.0mm) diameter cap design for simple, snap-on installation.

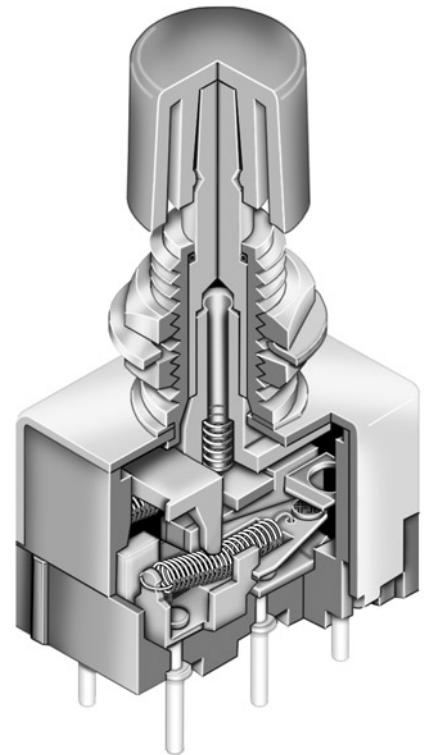
High torque bushing prevents rotation and separation from metal frame during installation.

Stainless steel frame resists corrosion.

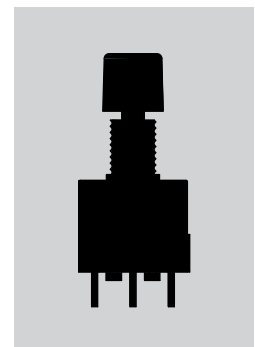
Snap action contacts give smooth actuation, short stroke, light touch, and audible feedback. This mechanism also provides long mechanical life.

Molded-in terminals prevent entry of solder flux, dust, and other contaminants.

.100" x .100" (2.54mm x 2.54mm) terminal spacing conforms to standard PC board grid spacing. Round terminals for easier through-hole mounting on PC boards.



Actual Size



Toggles

Rockers

C Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

TYPICAL SWITCH ORDERING EXAMPLE

DB25

21

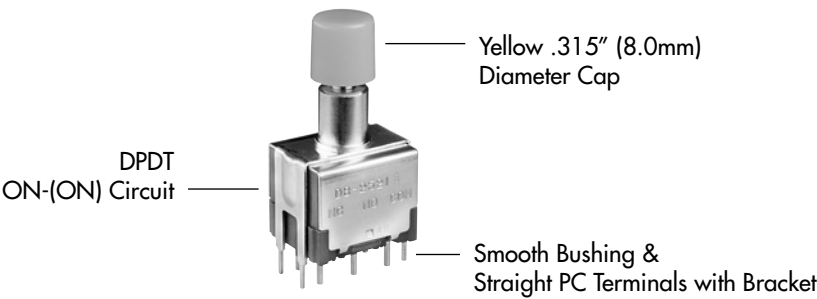
B

Poles & Circuits			
11	SPDT	ON	(ON)
21	DPDT	ON	(ON)
() = Momentary			

PC Terminals	
Threaded Bushing	
P	Straight
Smooth Bushing	
B	Straight with Bracket
H	Right Angle with Bracket
V	Vertical with Bracket

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

DB2521B with AT443E Cap



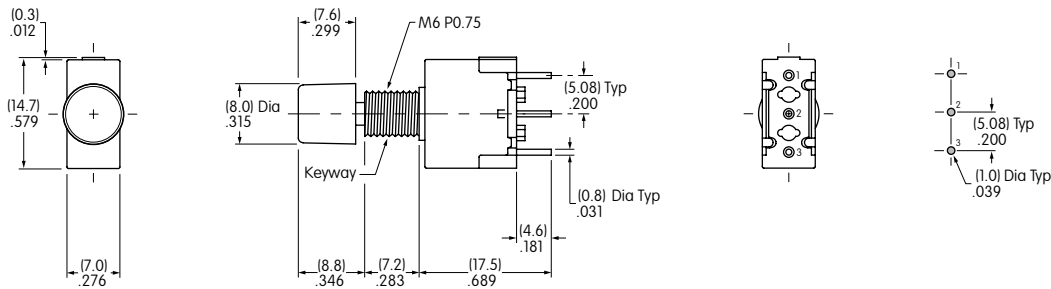
POLES & CIRCUITS

		Plunger Position () = Momentary		Connected Terminals		Throw & Switch Schematics
Pole	Model	Normal 	Down 	Normal 	Down 	Note: Terminal numbers are not actually on the switch.
SP	DB2511	ON	(ON)	3-1	3-2	
DP	DB2521	ON	(ON)	3-1 6-4	3-2 6-5	DPDT

TYPICAL SWITCH DIMENSIONS

Single Pole

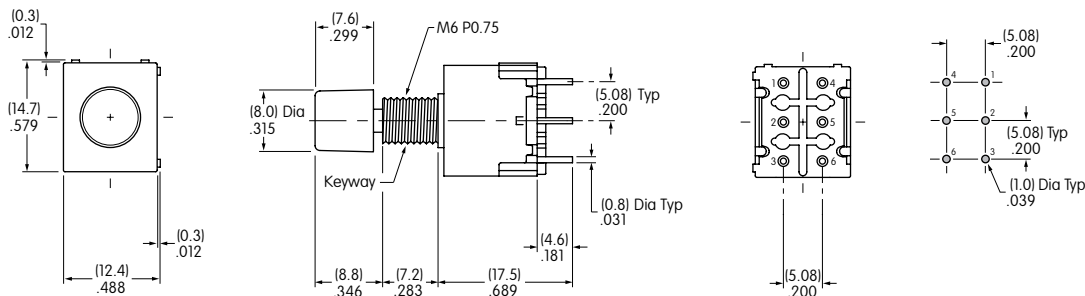
Straight PC



DB2511P with AT443C

Double Pole

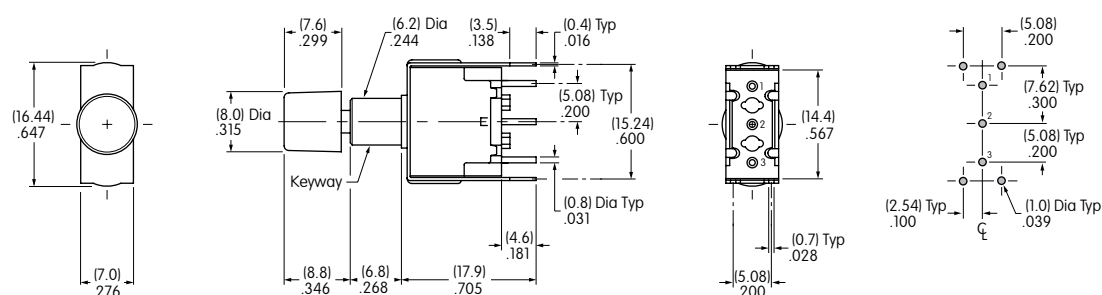
Straight PC



DB2521P with AT442A

Single Pole

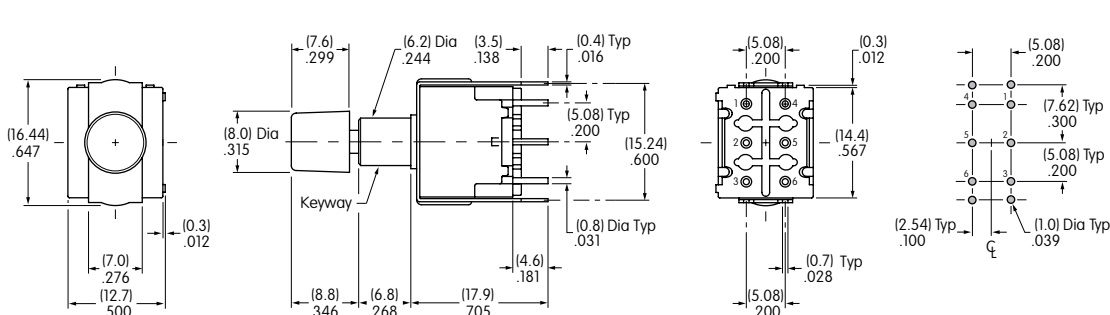
Straight PC with Bracket



DB2511B with AT442C

Double Pole

Straight PC with Bracket

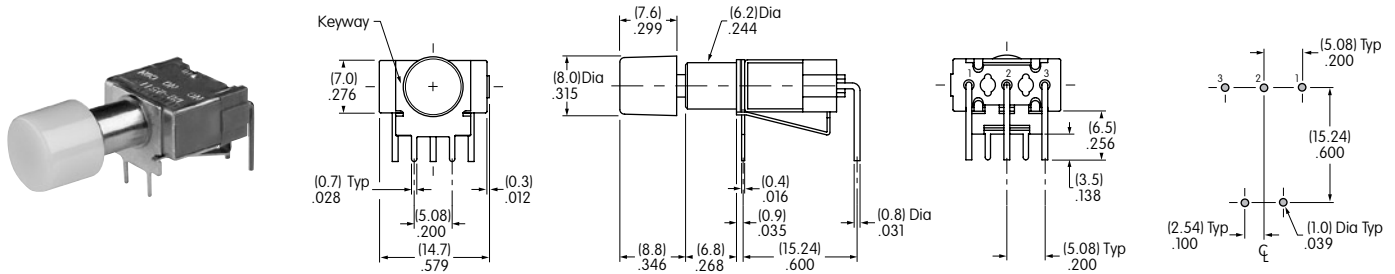


DB2521B with AT443E

TYPICAL SWITCH DIMENSIONS

Right Angle PC with Bracket

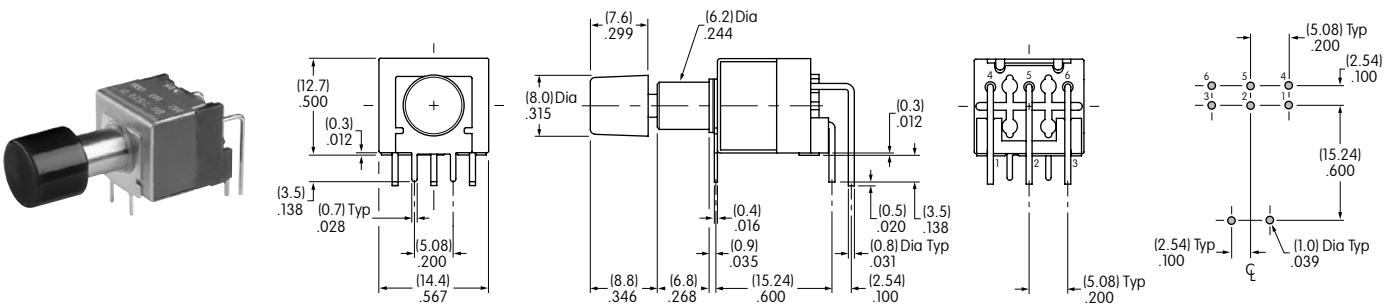
Single Pole



DB2511H with AT442B

Right Angle PC with Bracket

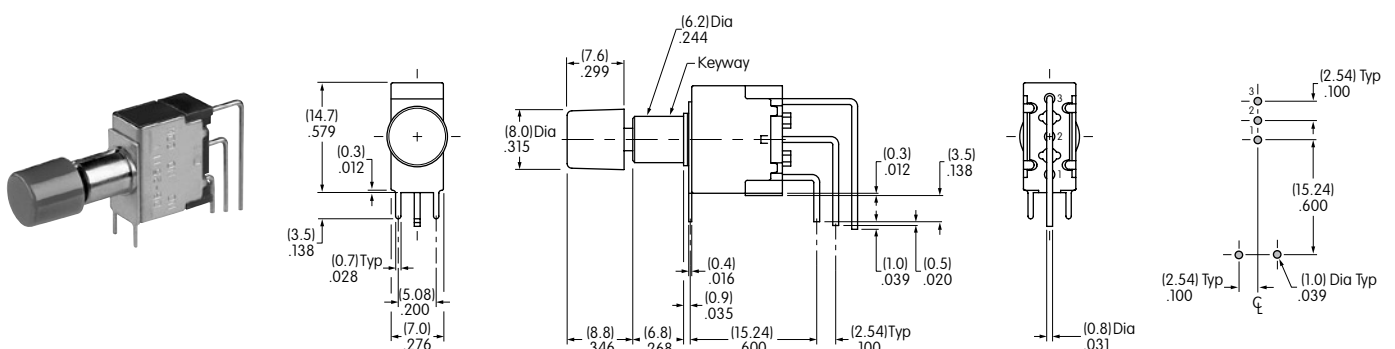
Double Pole



DB2521H with AT442A

Vertical PC with Bracket

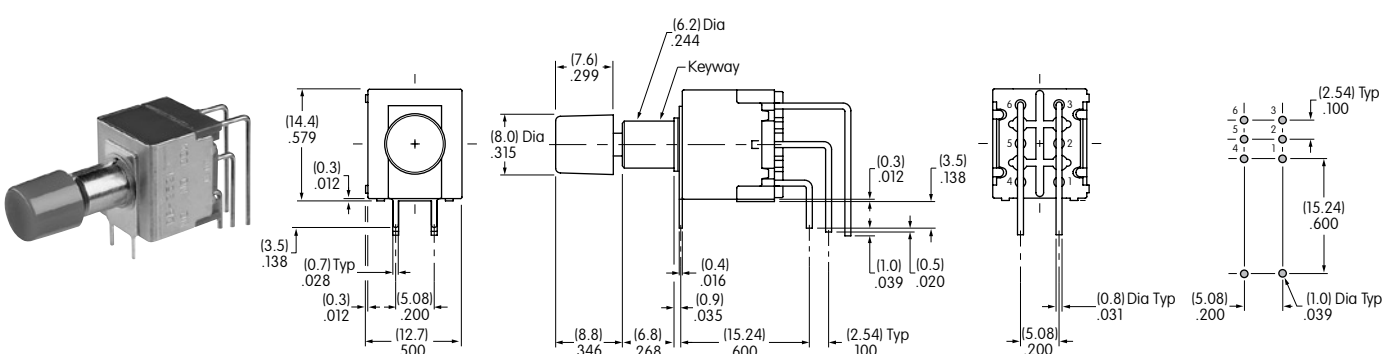
Single Pole



DB2511V with AT443C

Vertical PC with Bracket

Double Pole



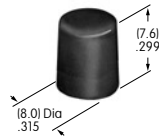
DB2521V with AT443C

OPTIONAL CAPS & COLORS

AT443 .315" (8.0mm) Diameter Snap-on Cap

Cap Colors Available:

A Black	E Yellow
B White	F Green
C Red	G Blue

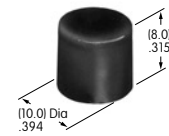


Cap Material: Polycarbonate Finish: Glossy

AT442 .394" (10.0mm) Diameter Snap-on Cap

Cap Colors Available:

A Black	E Yellow
B White	F Green
C Red	G Blue



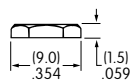
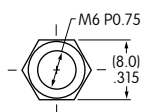
Cap Material: Polycarbonate Finish: Glossy

HARDWARE

Standard Hardware

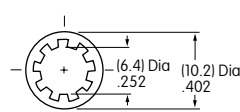
AT513M Metric Hexagon Nut

Material:
Brass with
Nickel Plating



AT509 Lockwasher

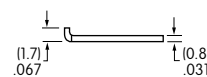
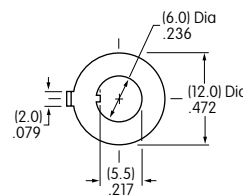
Material:
Steel with
Zinc/Chromate



Optional Hardware

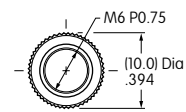
AT507M Metric Locking Ring

Material:
Steel with
Zinc/Chromate



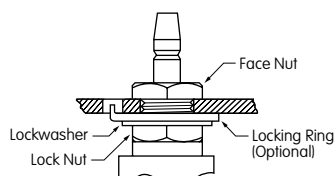
AT501M Metric Knurled Face Nut

Material:
Brass with
Chrome Plating



INSTALLATION/ASSEMBLY

2 AT513M Metric Hexagon Nuts
1 AT509 Internal Tooth Lockwasher

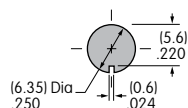


Optional Hardware:
AT507M Metric Locking Ring

Note: Cap must be snapped on after the switch is mounted into the panel.

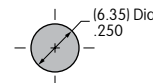
PANEL CUTOUTS & THICKNESSES

With
Standard Hardware



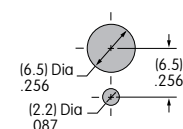
Maximum Effective
Panel Thickness:
.118" (3.0mm)

Without
Bottom Hex Nut



Maximum Effective
Panel Thickness:
.185" (4.7mm)

With Standard Hardware
& Optional Locking Ring



Maximum Effective
Panel Thickness:
.087" (2.2mm)

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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