

Distinctive Characteristics

Unique, off-center actuator allows high density setup and easy actuation while avoiding accidental operation in compact environments.

Side-by-side, block mounting can be achieved by use of bracket AT546 on straight PC mounting types.

Off-Momentary On Circuit.

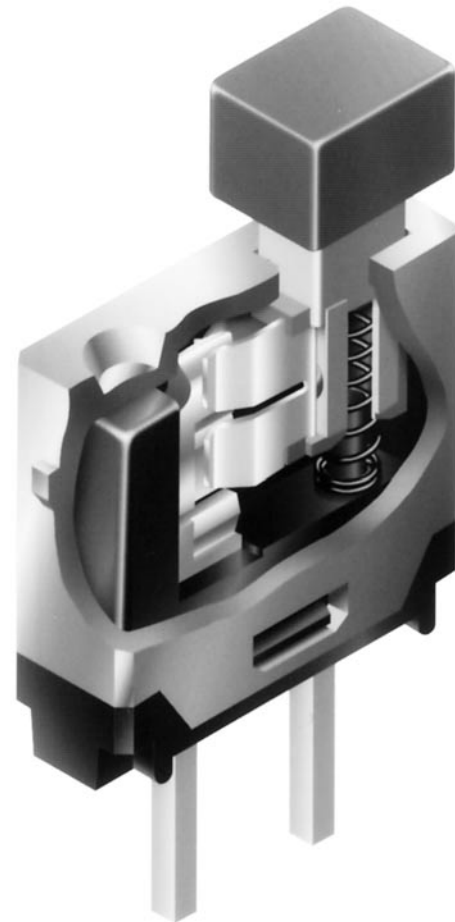
Black, white, and red snap-on caps available.

Extremely thin size allows high density PCB mounting and makes these switches ideal for handheld equipment.

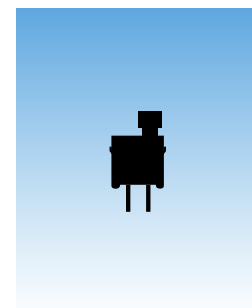
Award-winning STC contact mechanism with benefits unavailable in conventional mechanisms: smoother, positive detent actuation, increased contact stability and unparalleled logic-level reliability. (Additional STC details in Terms & Acronyms; see Supplement section.)

Molded-in, epoxy sealed terminals lock out flux and other contaminants.

.100" x .100" (2.54mm x 2.54mm) terminal spacing conforms to standard PC board grid spacing for straight and angle mounting.



Actual Size



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: 80 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: 1.0N
Travel: Pretravel .020" (0.5mm); Overtravel .023 (0.6mm); Total Travel .043" (1.1mm)

Materials & Finishes

Actuator: Glass fiber reinforced polyamide (UL94V-0)
Case: Glass fiber reinforced polyamide (UL94V-0)
Movable Contacts: Phosphor bronze with gold plating
Stationary Contacts: Brass with gold plating
Base: Glass fiber reinforced polyamide (UL94V-0)
Mounting Bracket: Phosphor bronze with tin plating
Terminals: Brass with gold plating

Environmental Data

Operating Temperature Range: -25°C through +70°C (-13°F through +158°F)
Humidity: 90 ~ 95% humidity for 240 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)

PCB Processing

Soldering: Wave Soldering recommended. See Profile B in Supplement section.
 Manual Soldering: 4 seconds maximum @ 390°C maximum.
Cleaning: These devices are not process sealed. Hand clean locally using alcohol based solution. See Cleaning Specifications in Supplement section.

Standards & Certifications

Flammability Standards: UL94V-0 actuator, case, & base
UL Recognition or CSA Certification: The GB2 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.

TYPICAL SWITCH ORDERING EXAMPLE

GB2 **1** **5** **A** **B**

POLE	
1	SPST

CIRCUIT		
5	OFF	(ON)
() = Momentary		

PLUNGER	
A	Standard

PC TERMINALS	
P	Straight
B	Straight with Bracket
H	Right Angle 1 Switch
2H	Right Angle 2 Switches

CAP COLORS	
With P, B, or H Terminals for Single Switches	
A	Black
B	White
C	Red

With Terminal Code 2H for 2 Right Angle Switches		
Upper		*Lower
A	Black	A
B	White	B
C	Red	C

* Nearest to PC Board

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

GB215AB



POLE & CIRCUIT

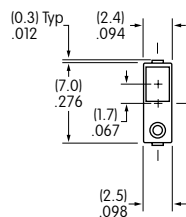
Pole	Model	Plunger Position () = Momentary		Connected Terminals		Throw & Schematics
		Normal	Down	Normal	Down	
SP	GB215	OFF	(ON)	OPEN	1-2 1-2 3-4	Note: Terminal numbers are not actually on the switch.

TYPICAL SWITCH DIMENSIONS

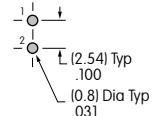
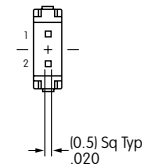
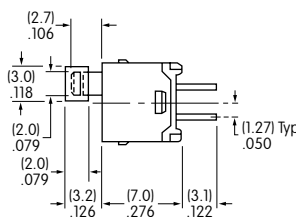
Straight PC



GB215AP

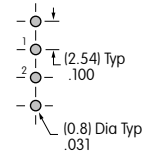
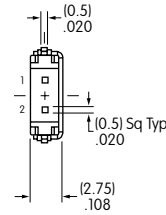
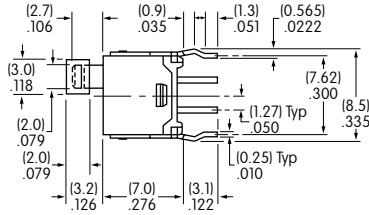
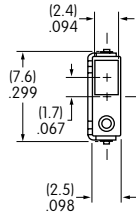


Single Pole



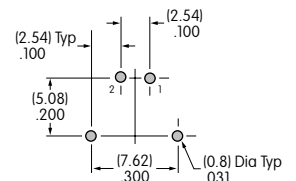
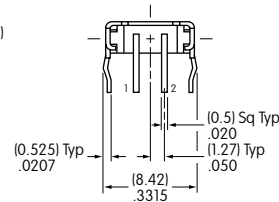
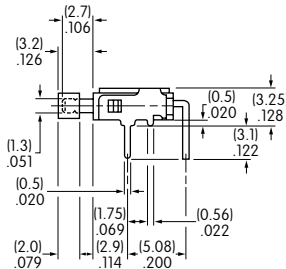
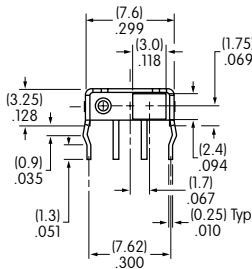
TYPICAL SWITCH DIMENSIONS

Straight PC with Bracket



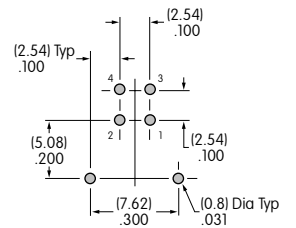
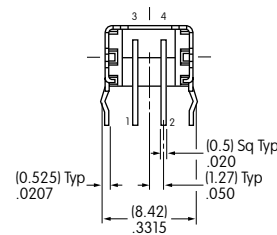
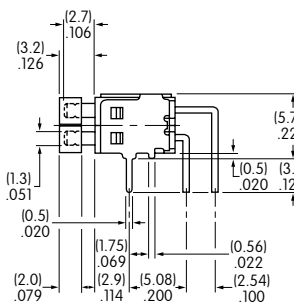
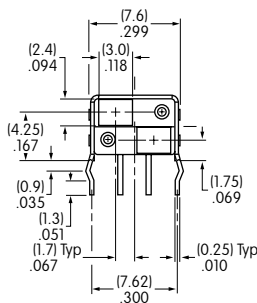
GB215AB

Right Angle PC



GB215AH

Right Angle PC



GB215A2H

Single Pole with 2 Switches

SNAP-ON CAP & MOUNTING BRACKET

A AT4137 Rectangular Snap-on Cap
Black

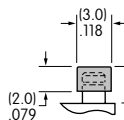
B AT4137 Rectangular Snap-on Cap
White

C AT4137 Rectangular Snap-on Cap
Red

Material: PBT
Finish: Glossy



Actual Size



AT546
Mounting Bracket
for Block Mounting

Material:
Phosphor Bronze
with Tin Plating

