Series HB2

General Specifications

Electrical Capacity (Resistive Load)

Logic Level (gold): 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:	100,000 operations minimum for momentary;	
Electrical Life:	100,000 operations minimum	
Nominal Operating Force:	1.8N	
Travel:	Pretravel .051" (1.3mm); Overtravel .020" (0.5mm); Total Travel .071" (1.8mm)	

Materials & Finishes

Housing:	Glass fiber reinforced polyamide
Base:	Glass fiber reinforced polyamide
Movable Contact:	Phosphor bronze with gold plating
Switch Terminals:	Phosphor bronze with gold plating
Lamp Terminals:	Steel with silver plating

Environmental Data

Operating Temperature Range:	–25°C through +50°C (–13°F through +122°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/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

Cap Installation Force:

15.0N (3.37 lbf) maximum downward force on cap

Wave Soldering: See Profile A in Supplement section.

PCB Processing

Soldering:

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 HB2 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.

Keylocks

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Touch

Indicators

Slides



Distinctive Characteristics

Quiet actuation combined with crisp tactile feedback suited for broadcast equipment.

Full face illumination with choice of red/green or red/yellow bicolor LEDs, as well as simultaneous bicolor illumination which produces amber.

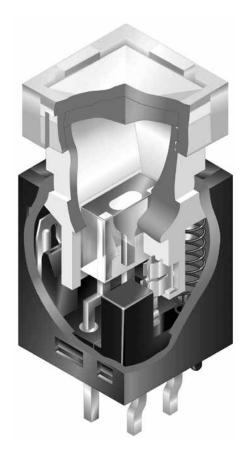
Option of legends on caps or film insert.

Compact design with short body .669" (17.0mm) from PCB to top of cap and .295" (7.5mm) square cap.

Sliding Twin Crossbar (STC) mechanism provides unequalled logic-level reliability, contact stability, smooth positive detent actuation, and long life.

Crimped power terminals ensure secure PCB mounting and prevent dislodging during soldering.

Suitable applications include broadcast, telecommunication, and medical equipment, as well as measuring instruments, etc.



Actual Size



Foggles

Series HB2

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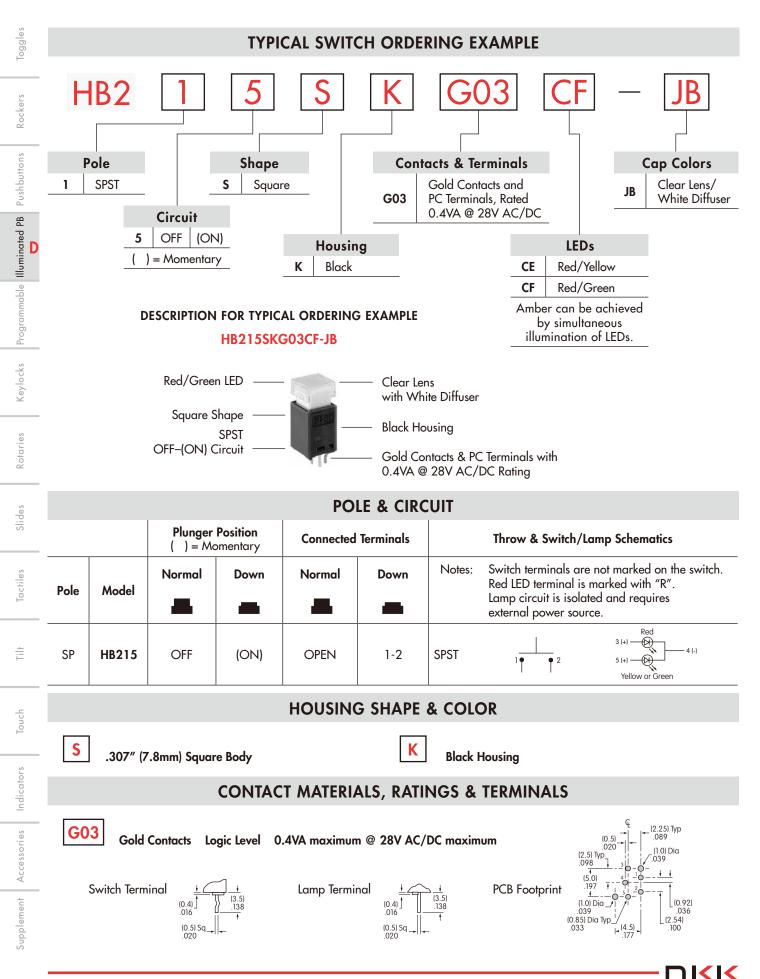
Keylocks

Tactiles



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Series HB2





Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

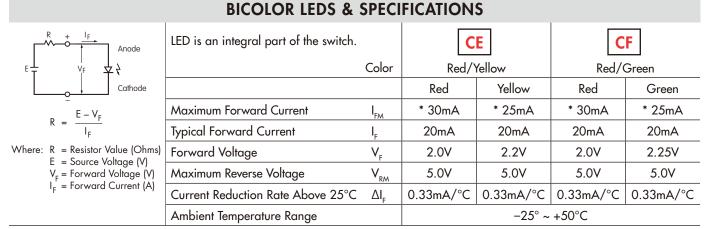
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Touch

Indicators

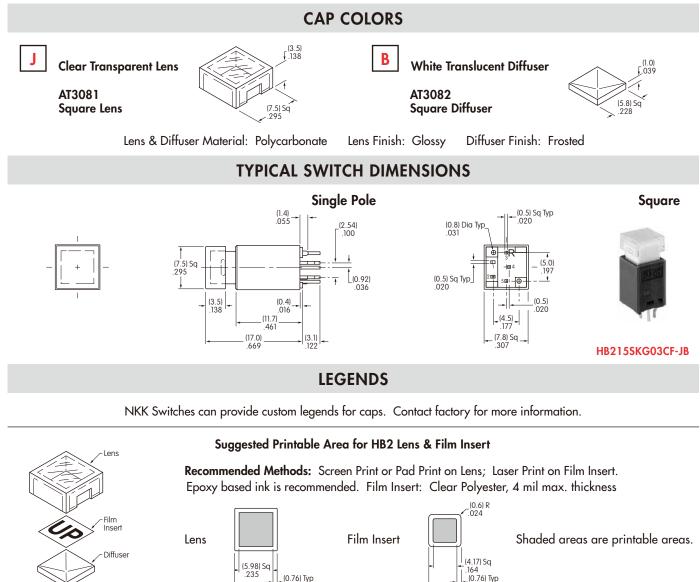
Accessories

Supplement



The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires an external power source. If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula in the Supplement section.

* Value applies to single color illumination for either Red or Yellow or Red or Green. When both colors are illuminated simultaneously, the sum of the currents should not exceed the smallest value of the maximum forward current.





(0.76) Typ

(7.5) Sq