

Distinctive Characteristics

Power and logic level capabilities available to suit varying applications.

Bushing and snap-in mount versions available; snap-in models offer many style and color choices to enhance front panel appearance.

Light touch actuation.

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

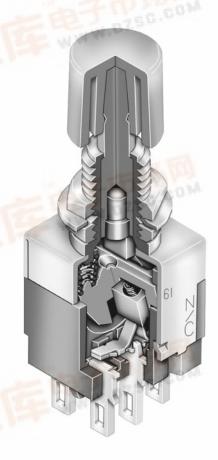
Stainless steel frame resists corrosion.

Case of heat resistant resin meets UL 94V-0 flammability rating.

Higher insulating barriers protect against crossover in double pole devices.

1,500V dielectric strength between contacts and case is accomplished by clinching the frame away from the terminals.

Epoxy sealed terminals prevent entry of solder flux and other contaminants.





Actual Size



General Specifications

Electrical Capacity (Resistive Load)

Power Level (No code or P):	3A @ 125V AC for silver contacts
Logic Level (code G or PG):	0.4VA maximum @ 28V AC/DC maximum for gold contacts
-	(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)
	Note: Find additional explanation of operating range in Supplement section.

Other Ratings

Contact Resistance:	10 milliohms maximum for silver; 20 milliohms maximum for gold
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 and case for 1 minute minimum
Mechanical Life:	100,000 operations minimum
Electrical Life:	25,000 operations minimum for silver;
	50,000 operations minimum for gold
Nominal Operating Force:	Single Pole: 2.35N for Momentary and 2.65N for Alternate Action
	Double Pole: 2.94N for Momentary and 3.63N for Alternate Action
Travel:	Momentary: Pretravel .047" (1.2mm); Overtravel .016" (0.4mm); Total Travel .063" (1.6mm)
	Alternate: Pretravel .071" (1.8mm); Overtravel .016" (0.4mm); Total Travel .087" (2.2mm)

Materials & Finishes

Plunger:	Brass with chrome plating for Momentary; brass with nickel plating for Alternate
Bushing:	Brass with nickel plating
Frame:	Stainless steel
Case:	Melamine phenolic resin (UL94V-0)
Movable Contacts:	Copper with silver or gold plating
Stationary Contacts:	Silver with silver or gold plating
Terminals:	Copper with silver or 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 and 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

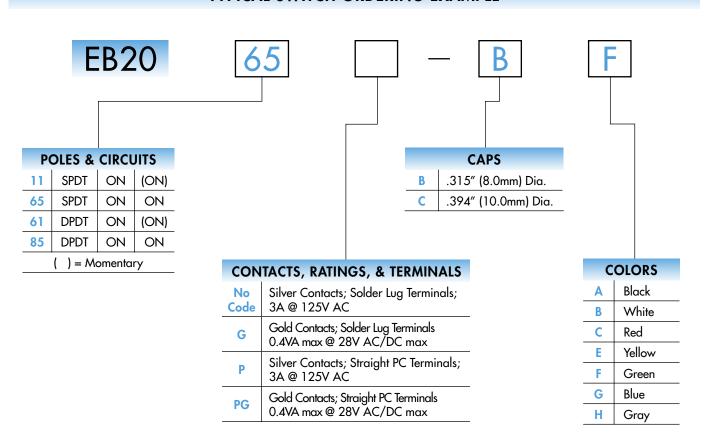
Mounting Torque:	1.47Nm (13.0 lb•in) for double nut; 0.68Nm (6.0 lb•in) for single nut				
Cap Installation Force:	78.5N (17.65 lbf) maximum downward force on actuator				
Soldering Time & Temp:	Wave Solder (Straight PC): See Profile B in Supplement section.				
	Manual Soldering: See Profile B in Supplement section.				
Cleaning:	These devices are not process sealed. Hand clean locally using alcohol based solution.				

Standards & Certifications

Flam:	mability Standards: UL Recognized:	UL94V-0 case All single and double pole models recognized at 3A @ 125V AC; UL File No. WOYR2.E44145; add "/U" to end of part number to order UL mark on switch.
C _o	C-UL Recognized:	All single and double pole models recognized at 3A @ 125V AC; UL File No. WOYR8.E44145; add "/C-UL" to end of part number to order C-UL mark on switch.
SP:	CSA Certified:	Single pole solder lug and PC models certified at 3A @ 125V AC; double pole PC models certified at 3A @ 125V AC; CSA File No. 023535-0-000; add "/C" to end of part number to order CSA mark on switch.



TYPICAL SWITCH ORDERING EXAMPLE



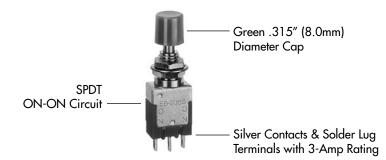
IMPORTANT:



Switches are supplied without UL, C-UL & CSA markings unless specified. Specific models & ratings noted on General Specifications page.

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

EB2065-BF

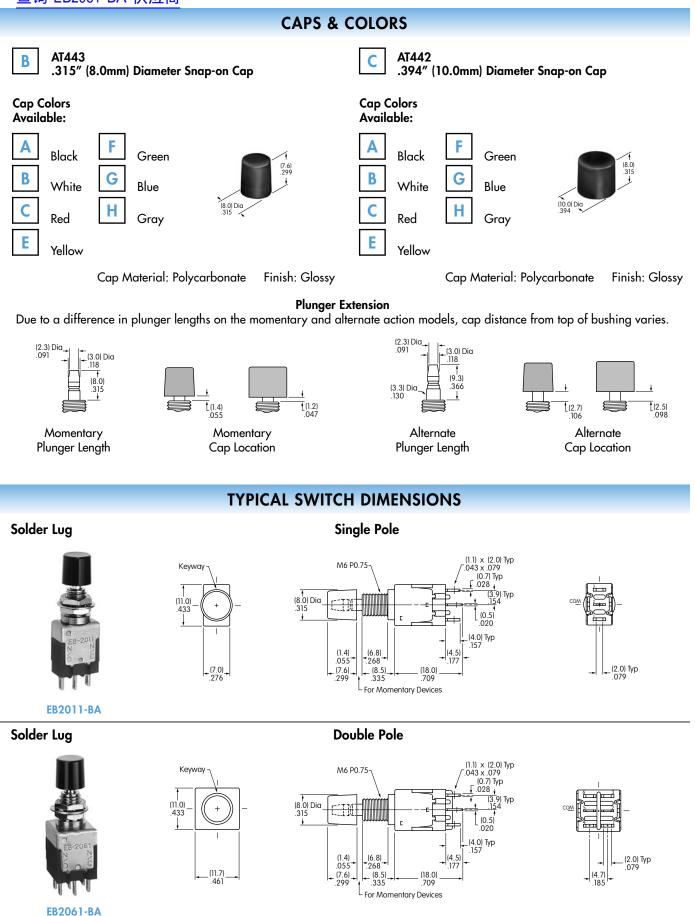




查诉	〕"EB2061-B	A"供应商	LI	ght louch l	Miniature	Pushbuttons J	eries ED	
				POLES & CII	RCUITS			
Plunger Pos () = Mome				ition				
Pole	Model	Normal	Down	Normal	Down	Note: Terminal nur not actually	nbers are on the switch.	
SP	EB2011 EB2065	ON ON	(ON) ON	2-3	2-1	SPDT 3	2 (COM) • 1	
DP	EB2061 EB2085	ON ON	(ON) ON	2-3 5-6	2-1 5-4	DPDT 2 (CO/ 3 • • 1	M) 5 • 6 • • 4	
		CON	ΤΑCΤ ΜΑΤ	ERIALS, RA	TINGS, & T	ERMINALS		
No Code Solder Lug Silver Contacts			Pov	ver Level		3A @ 125V AC		
G Solder Lug Gold Contacts			Log	ic Level		0.4VA max @ 28V AC/DC max		
			Co	mplete explanatio	on of operating	range in Supplement section	۱.	
		Epoxy Seal - (2.0) (2.0) - (1.0) .079 - (1.0) Thk (0.7) (0.1) .028 .021	2 <u>↓</u> (2.0) .079 .079 .079 .079 .079 .079 .079 .079					
P Straight PC Silver Contacts			Pov	Power Level		3A @ 125V AC		
PG] Straight Gold Co	PC ntacts	Loį	jic Level		0.4VA max @ 28V AC/I	DC max	
			(Complete expland	ation of operatir	ng range in Supplement sect	ion.	
	PCB Footprints							
		Epoxy Seal	$\frac{1}{4}$ (6.4)		Sing	e Pole Double Pole		
		U	4.3) 252 169 4 2) 47) Com		$-\textcircled{b}{3}$ $-\textcircled{b}{2}$ $-\textcircled{b}{2}$ $-\textcircled{b}{3}$ $-\overbrace{b}{3}$ $-b$	$+ \begin{bmatrix} 14, 1/3 \\ 3 \end{bmatrix} + \begin{bmatrix} 14, 1/3 \\ 3 \end{bmatrix} + \begin{bmatrix} 13, 5 \\ -9 \end{bmatrix} + $		

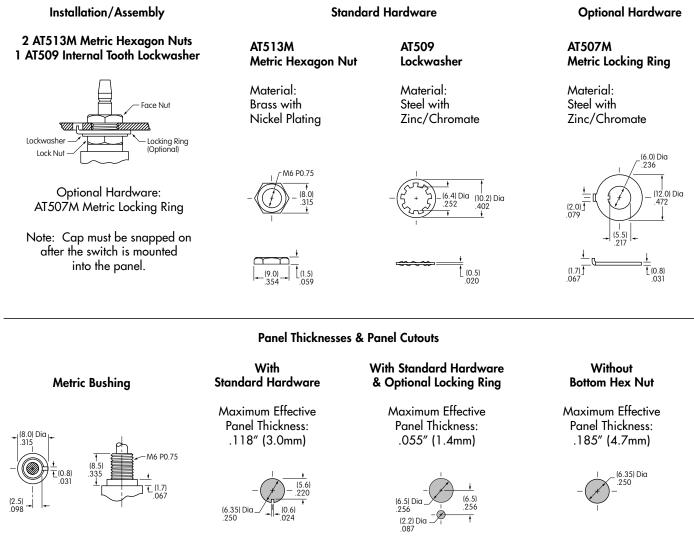


Light Touch Miniature Pushbuttons Series EB





HARDWARE



See Accessories & Hardware section for optional Conical Nuts: AT512M used with cap AT443 and AT512CM used with cap AT442.

NKK Switches • email: sales@nkkswitches.com • Phone (480) 991-0942 • Fax (480) 998-1435 • www.nkkswitches.com 03-07