



Pushbutton Switches



Contact Material Options
 W= 3A @ 125 VAC
 G = 0.4VA max @ 28V AC/DC max
 MB2000 Series W = 6A @ 125VAC

MB2000 Series:

Guide interlocked with actuator block prevents window locking and maintains correct plunger alignment to assure contact stability. Employs an over-center actuator mechanism, which diminishes sparking and increases operating life in AC circuits.

- **Contact Resistance:** 10 milliohms maximum for silver; 20 milliohms maximum for gold
- **Insulation Resistance:** 1,000V megohms minimum @ 500V DC
- **Mechanical Life:** 50,000 operations minimum for splashproof models 100,000 for all other models

MB2400 Series:

Anti-jamming design protects contacts from damage due to excessive downward force on the actuator. Stainless steel frame resists corrosion.

- **Contact Resistance:** 20 milliohms maximum for silver; 30 milliohms maximum for gold
- **Insulation Resistance:** 1,000 megohms minimum @ 500V AC
- **Mechanical Life:** 200,000 operations minimum
- **Operating Temperature Range:** -30° - 85°C
- **Cleaning:** These devices are not process sealed. Hand clean locally.

Bushings

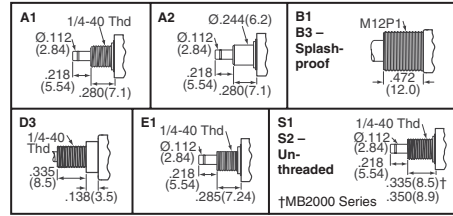
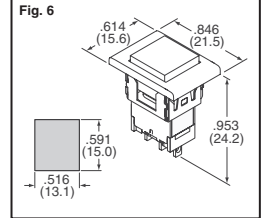
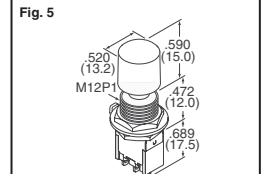
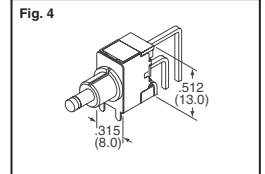
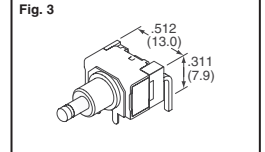
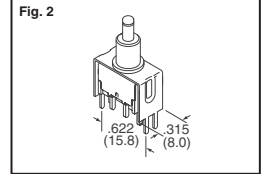
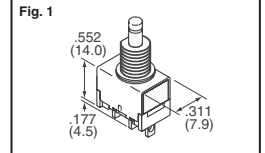


Fig.	Circuit	Switching Function	Termination	Bushing	Contact Material	Digi-Key Part No.	1	25	100	NKK Part No.	
MB2000 Series - Miniature Pushbuttons With .394" Black Cap											
1	SPDT	On-Mom	Solder Lug	S1	W	360-2165-ND	5.85	3.90	3.49	MB2011SS1W01-CA-RO	
	SPDT	On-Mom	PCB	S1	W	360-2166-ND	5.98	3.98	3.57	MB2011SS1W03-CA-RO	
	SPDT	On-Mom	Solder Lug	D3	W	360-2170-ND	7.03	4.78	4.30	MB2011SD3W01-CA-RO	
	SPDT	On-On	Solder Lug	S1	W	360-2171-ND	6.06	4.04	3.62	MB2065SS1W01-CA-RO	
	SPDT	On-On	PCB	S1	W	360-2190-ND	6.19	4.12	3.69	MB2065SS1W03-CA-RO	
2	DPDT	On-Mom	Solder Lug	S1	W	360-2176-ND	7.38	5.02	4.52	MB2061SS1W01-CA-RO	
	DPDT	On-On	Solder Lug	S1	W	360-2177-ND	7.83	5.33	4.86	MB2085SS1W01-CA-RO	
	4PDT	On-Mom	Solder Lug	S1	W	360-2178-ND	11.43	8.11	7.71	MB2181SS1W01-CA-RO	
	4PDT	On-On	Solder Lug	S1	W	360-2179-ND	11.63	8.43	7.50	MB2185SS1W01-CA-RO	
3	SPDT	On-Mom	Bracket PCB	S2	W	360-2189-ND	6.24	4.16	3.72	MB2011SS2W13-CA-RO	
	SPDT	On-Mom	Right Angle PCB	S2	G	360-2167-ND	6.83	4.73	4.18	MB2011SS2G30-CA-RO	
	SPDT	On-Mom	Right Angle PCB	S1	W	360-2168-ND	6.28	4.35	3.85	MB2011SS1W30-CA-RO	
	SPDT	On-On	Right Angle PCB	S1	W	360-2191-ND	6.48	4.49	3.97	MB2065SS1W30-CA-RO	
	SPDT	On-On	Right Angle PCB	S2	W	360-2192-ND	6.48	4.49	3.97	MB2065SS2W30-CA-RO	
4	SPDT	On-On	Vertical PCB	S2	W	360-2175-ND	6.75	4.68	4.14	MB2065SS2W40-CA-RO	
	SPDT	On-Mom	Solder Lug	B1	W	360-2180-ND	7.90	5.38	4.90	MB2011SB1W01-DA-RO	
	SPDT	On-Mom	Solder Lug	B3	W	360-2181-ND	8.64	5.94	5.58	MB2011SB3W01-DA-RO	
	SPDT	On-On	Solder Lug	B1	W	360-2182-ND	8.10	5.51	5.03	MB2065SB1W01-DA-RO	
5	SPDT	On-On	Solder Lug	B3	W	360-2189-ND	8.83	6.08	5.71	MB2065SB3W01-DA-RO	
	MB2000 Accessories										
	Waterproof Boot for Momentary 1/4 - 40NS						360-2184-ND	3.51	2.17	1.91	AT4041H
	Waterproof Boot for Alternate 1/4 - 40NS						360-2185-ND	3.51	2.17	1.91	AT4042H
Waterproof Boot M12 Thread						360-2186-ND	4.48	2.80	2.66	AT4043	
MB2400 Series - Snap - Action Miniature Pushbuttons											
1	SPDT	On-Mom	Solder Lug	E1	W	360-2139-ND	5.38	3.21	3.21	MB2411E1W01-RO	
	SPDT	On-Mom	Solder Lug	E1	G	360-2140-ND	5.82	3.88	3.48	MB2411E1G01-RO	
	SPDT	On-Mom	Solder Lug	S1	W	360-2141-ND	5.38	3.21	3.21	MB2411S1W01-RO	
	SPDT	On-Mom	PCB	A1	W	360-2142-ND	5.56	3.71	3.32	MB2411A1W03-RO	
	SPDT	On-Mom	PCB	E1	W	360-2143-ND	5.56	3.71	3.32	MB2411E1W03-RO	
2	SPDT	On-Mom	PCB	E1	G	360-2144-ND	5.98	3.98	3.57	MB2411E1G03-RO	
	DPDT	On-Mom	Solder Lug	E1	W	360-2152-ND	7.10	4.83	4.35	MB2461E1W01-RO	
	DPDT	On-Mom	Solder Lug	E1	G	360-2153-ND	7.95	5.41	4.93	MB2461E1G01-RO	
	DPDT	On-Mom	PCB	E1	G	360-2154-ND	7.94	5.63	5.14	MB2461E1G03-RO	
3	SPDT	On-Mom	Bracket PCB	A2	W	360-2145-ND	5.77	3.85	3.46	MB2411A2W13-RO	
	SPDT	On-Mom	Bracket PCB	A2	G	360-2146-ND	6.21	4.14	3.71	MB2411A2G13-RO	
	SPDT	On-Mom	Right Angle PCB	A2	W	360-2147-ND	6.21	4.14	3.71	MB2411A2W30-RO	
4	SPDT	On-Mom	Right Angle PCB	A2	G	360-2148-ND	6.40	4.43	3.92	MB2411A2G30-RO	
	SPDT	On-Mom	Vertical PCB	A2	W	360-2149-ND	6.42	4.28	3.83	MB2411A2W40-RO	
	SPDT	On-Mom	Vertical PCB	A2	G	360-2150-ND	6.60	4.57	4.04	MB2411A2G40-RO	
6	SPDT	On-Mom	Vertical PCB	A1	G	360-2151-ND	6.60	4.57	4.04	MB2411A1G40-RO	
	SPDT	On-Mom	Solder Lug	Blk Cap	W	360-2155-ND	7.25	4.93	4.44	MB2411JW01-A-1A	
	SPDT	On-Mom	Solder Lug	Blk Cap	G	360-2156-ND	7.68	5.22	4.76	MB2411JG01-A-1A	
6	DPDT	On-Mom	Solder Lug	Blk Cap	W	360-2157-ND	8.83	6.08	5.71	MB2461JW01-A-1A	
	DPDT	On-Mom	Solder Lug	Blk Cap	G	360-2158-ND	9.82	6.54	6.22	MB2461JG01-A-1A	
	MB2400 Accessories										
Switch Cap, .201 Black						360-2159-ND	.51	.25	.20	AT475A	
Switch Cap, .201 White						360-2160-ND	.51	.25	.20	AT475B	
Switch Cap, .201 Red						360-2161-ND	.51	.25	.20	AT475C	
Switch Cap, .295 Black						360-2162-ND	.65	.32	.26	AT496A	
Switch Cap, .295 White						360-2163-ND	.65	.32	.26	AT496B	
Switch Cap, .295 Red						360-2164-ND	.65	.32	.26	AT496C	

Dim. in Inches (mm)



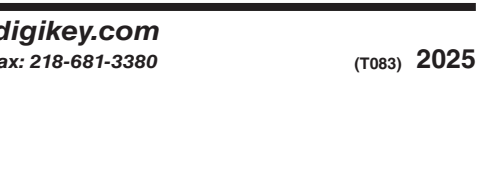
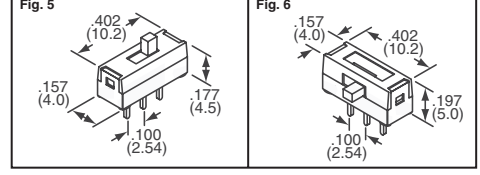
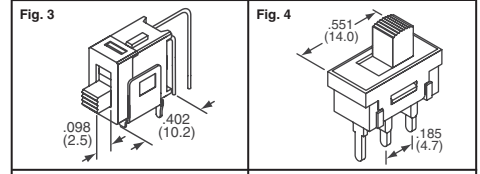
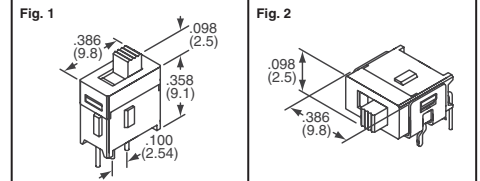
Slide Switches



Dim. in Inches (mm)

AS Series: 1/3 size of Series M switches. Specifically developed for logic-level applications. Antistatic superstructure of carbon blended polyacetal prevents static discharge to the contacts. **Specifications:** 0.4VA maximum at 28V AC/DC maximum • **Contact Resistance:** 50 milliohms maximum • **Insulation Resistance:** 500 megohms minimum at 500V DC • **Mechanical Life:** 50,000 operations minimum • **Electrical Life:** 50,000 operations minimum • **Operating Force:** 2.55N • **Contact Timing:** Nonshorting (break-before-make) • **Operating Temperature Range:** -30°C - 85°C **CS Series:** • High performance and high quality at a low price. Epoxy sealed terminals to lock out flux dust, and other contaminants. Suited for a wide variety of applications including telecommunications, electronic controls, audio devices and household appliances. **Specifications:** • **Contact Resistance:** 10 milliohms maximum • **Insulation Resistance:** 1,000 megohms minimum at 500V DC • **Mechanical Life:** 50,000 operations minimum • **Electrical Life:** 20,000 operations minimum • **Contact Timing:** Nonshorting (break-before-make) • **Operating Temperature Range:** -30°C - 85°C **SS Series:** • Compact dimensions and low profile allow high density mounting and close stacking of PC boards. Crisp actuation positively indicates circuit status. **Specifications:** • **Contact Resistance:** 20 milliohms maximum for power level, 40 milliohms maximum for logic level • **Insulation Resistance:** 10 megohms minimum at 500V DC • **Mechanical Life:** 10,000 operations minimum • **Electrical Life:** 10,000 operations minimum • **Contact Timing:** Shorting (make-before-break) • **Operating Temp Range:** -15°C - 60°C

Fig.	Circuit	Switching Function	Rating	Digi-Key Part No.	1	25	100	NKK Part No.
Sub-Miniature Slides								
1	SPDT	On-On	0.4V @ 28VAC/DC	360-2121-ND	4.00	2.49	2.25	AS12AP
	SPDT	On-Off-On		360-2124-ND	4.23	2.63	2.38	AS13AP
	DPDT	On-On		360-2127-ND	5.01	3.19	2.92	AS22AP
	DPDT	On-Off-On		360-2129-ND	5.29	3.43	3.14	AS23AP
	SPDT	On-On		360-2122-ND	4.54	2.84	2.60	AS12AH-RO
2	SPDT	On-Off-On	0.4V @ 28VAC/DC	360-2125-ND	4.76	2.98	2.72	AS13AH-RO
	DPDT	On-On		360-2128-ND	5.67	3.78	3.38	AS22AH-RO
	DPDT	On-Off-On		360-2130-ND	6.03	4.02	3.60	AS23AH-RO
3	SPDT	On-On	0.4V @ 28VAC/DC	360-2123-ND	4.54	2.84	2.60	AS12AV-RO
	SPDT	On-Off-On		360-2126-ND	4.76	2.98	2.72	AS13AV-RO
Miniature Power Rated Slides								
4	SPDT	On-On	3A @ 125VAC	360-2131-ND	2.56	1.52	1.36	CS12ANW03
	DPDT	On-On		360-2132-ND	3.24	2.00	1.77	CS22BNW03
Ultra-Miniature Slides								
5	SPDT	On-On	0.1A @ 30VDC	360-2133-ND	1.89	1.08	.94	SS12SDP2
	SP3T	On-On-On		360-2135-ND	2.24	1.33	1.18	SS14MDP2
	DPDT	On-On		360-2137-ND	2.18	1.25	1.11	SS22SDP2
6	SPDT	On-On	0.1A @ 30VDC	360-2134-ND	1.89	1.08	.94	SS12SDH2
	SP3T	On-On-On		360-2136-ND	2.24	1.33	1.18	SS14MDH2
	DPDT	On-On		360-2138-ND	2.18	1.25	1.11	SS22SDH2



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