



Pushbutton Switches



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

MB2000 Series:

Anti-jamming design 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

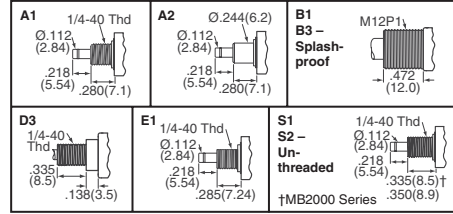
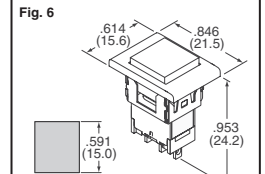
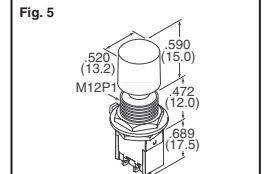
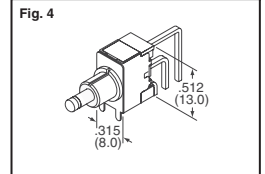
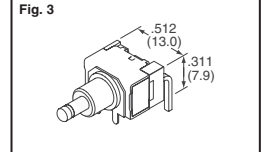
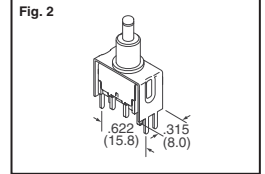
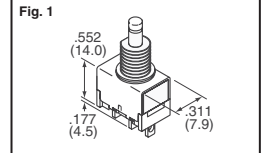


Fig.	Circuit	Switching Function	Termination	Bushing	Contact Material	Digi-Key Part No.	1	25	100	NKK Part No.	
MB2000 Series - Miniature Pushbuttons With .394" Black Cap											
1	SPDT	On-Mom	Solder Lug	S1	W	360-2165-ND	4.46	2.97	2.66	MB2011SS1W01-CA-RO	
	SPDT	On-Mom	PCB	S1	W	360-2166-ND	4.57	3.04	2.73	MB2011SS1W03-CA-RO	
	SPDT	On-Mom	Solder Lug	D3	W	360-2170-ND	5.34	3.63	3.27	MB2011SD3W01-CA-RO	
	SPDT	On-On	Solder Lug	S1	W	360-2171-ND	4.60	3.07	2.75	MB2065SS1W01-CA-RO	
	SPDT	On-On	PCB	S1	W	360-2190-ND	4.54	3.14	2.78	MB2065SS1W03-CA-RO	
2	DPDT	On-Mom	Solder Lug	S1	W	360-2176-ND	5.63	3.83	3.38	MB2061SS1W01-CA-RO	
	DPDT	On-On	Solder Lug	S1	W	360-2177-ND	5.71	4.05	3.58	MB2085SS1W01-CA-RO	
	4PDT	On-Mom	Solder Lug	S1	W	360-2178-ND	8.53	6.18	5.50	MB2181SS1W01-CA-RO	
	4PDT	On-On	Solder Lug	S1	W	360-2179-ND	8.86	6.42	5.71	MB2185SS1W01-CA-RO	
3	SPDT	On-Mom	Bracket PCB	S2	W	360-2189-ND	4.57	3.17	2.80	MB2011SS2W13-CA-RO	
	SPDT	On-Mom	Right Angle PCB	S2	G	360-2167-ND	5.19	3.53	3.18	MB2011SS2G30-CA-RO	
	SPDT	On-Mom	Right Angle PCB	S1	W	360-2168-ND	4.79	3.32	2.94	MB2011SS1W30-CA-RO	
	SPDT	On-On	Right Angle PCB	S1	W	360-2191-ND	4.94	3.42	3.03	MB2065SS1W30-CA-RO	
	SPDT	On-On	Right Angle PCB	S2	W	360-2192-ND	4.94	3.42	3.03	MB2065SS2W30-CA-RO	
4	SPDT	On-On	Vertical PCB	S2	W	360-2175-ND	5.12	3.49	3.14	MB2065SS2W40-CA-RO	
	SPDT	On-Mom	Solder Lug	B1	W	360-2180-ND	5.79	4.10	3.62	MB2011SB1W01-DA-RO	
	SPDT	On-Mom	Solder Lug	B3	W	360-2181-ND	6.27	4.32	4.06	MB2011SB3W01-DA-RO	
	SPDT	On-On	Solder Lug	B1	W	360-2182-ND	5.92	4.20	3.71	MB2065SB1W01-DA-RO	
5	SPDT	On-On	Solder Lug	B3	W	360-2189-ND	6.41	4.41	4.15	MB2065SB3W01-DA-RO	
	MB2000 Accessories										
	Waterproof Boot for Momentary 1/4 - 40NS						360-2184-ND	2.69	1.68	1.52	AT4041H
	Waterproof Boot for Alternate 1/4 - 40NS						360-2185-ND	2.69	1.68	1.52	AT4042H
Waterproof Boot M12 Thread						360-2186-ND	3.51	2.24	2.05	AT4043	
MB2400 Series - Snap - Action Miniature Pushbuttons											
1	SPDT	On-Mom	Solder Lug	E1	W	360-2139-ND	4.12	2.74	2.46	MB2411E1W01-RO	
	SPDT	On-Mom	Solder Lug	E1	G	360-2140-ND	4.46	2.97	2.66	MB2411E1G01-RO	
	SPDT	On-Mom	Solder Lug	S1	W	360-2141-ND	4.12	2.74	2.46	MB2411S1W01-RO	
	SPDT	On-Mom	PCB	A1	W	360-2142-ND	4.27	2.84	2.55	MB2411A1W03-RO	
	SPDT	On-Mom	PCB	E1	W	360-2143-ND	4.27	2.84	2.55	MB2411E1W03-RO	
2	SPDT	On-Mom	PCB	E1	G	360-2144-ND	4.60	3.07	2.75	MB2411E1G03-RO	
	DPDT	On-Mom	Solder Lug	E1	W	360-2152-ND	5.45	3.71	3.27	MB2461E1W01-RO	
	DPDT	On-Mom	Solder Lug	E1	G	360-2153-ND	5.82	4.13	3.64	MB2461E1G01-RO	
	SPDT	On-Mom	PCB	E1	G	360-2154-ND	6.06	4.30	3.79	MB2461E1G03-RO	
	SPDT	On-Mom	Bracket PCB	A2	W	360-2145-ND	4.41	2.94	2.64	MB2411A2W13-RO	
3	SPDT	On-Mom	Bracket PCB	A2	G	360-2146-ND	4.57	3.17	2.80	MB2411A2G13-RO	
	SPDT	On-Mom	Right Angle PCB	A2	W	360-2147-ND	4.57	3.17	2.80	MB2411A2W30-RO	
	SPDT	On-Mom	Right Angle PCB	A2	G	360-2148-ND	4.90	3.40	3.00	MB2411A2G30-RO	
	SPDT	On-Mom	Vertical PCB	A2	W	360-2149-ND	4.72	3.27	2.89	MB2411A2W40-RO	
	SPDT	On-Mom	Vertical PCB	A2	G	360-2150-ND	5.05	3.50	3.09	MB2411A2G40-RO	
4	SPDT	On-Mom	Vertical PCB	A1	G	360-2151-ND	5.05	3.50	3.09	MB2411A1G40-RO	
	SPDT	On-Mom	Solder Lug	Blk Cap	W	360-2155-ND	5.55	3.78	3.34	MB2411JW01-A-1A	
	SPDT	On-Mom	Solder Lug	Blk Cap	G	360-2156-ND	5.88	4.00	3.53	MB2411JG01-A-1A	
	DPDT	On-Mom	Solder Lug	Blk Cap	W	360-2157-ND	6.76	4.65	4.23	MB2461JW01-A-1A	
6	DPDT	On-Mom	Solder Lug	Blk Cap	G	360-2158-ND	7.05	5.00	4.60	MB2461JG01-A-1A	
	MB2400 Accessories										
	Switch Cap, .201 Black						360-2159-ND	.44	.22	.18	AT475A
	Switch Cap, .201 White						360-2160-ND	.44	.22	.18	AT475B
Switch Cap, .201 Red						360-2161-ND	.44	.22	.18	AT475C	
Switch Cap, .295 Black						360-2162-ND	.50	.25	.21	AT496A	
Switch Cap, .295 White						360-2163-ND	.50	.25	.21	AT496B	
Switch Cap, .295 Red						360-2164-ND	.50	.25	.21	AT496C	

Dim. in Inches (mm)



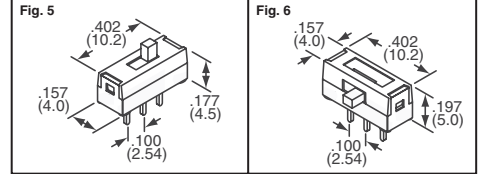
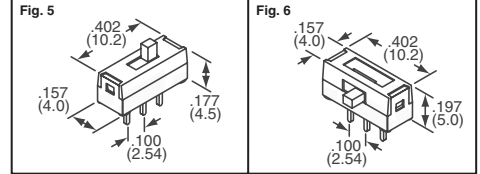
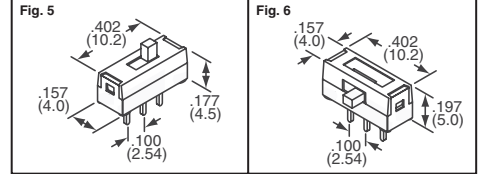
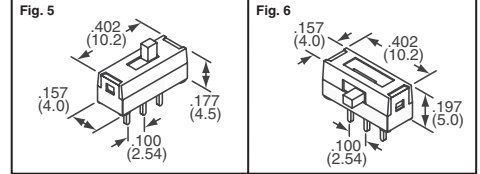
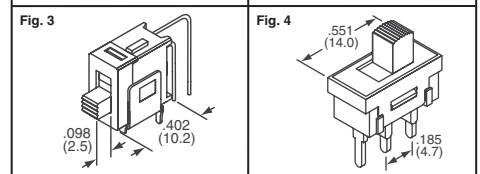
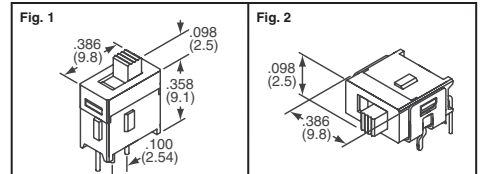
Slide Switches



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	3.03	1.89	1.71	AS12AP
	SPDT	On-Off-On		360-2124-ND	3.13	2.02	1.79	AS13AP
	DPDT	On-On		360-2127-ND	3.76	2.44	2.24	AS22AP
	DPDT	On-Off-On		360-2129-ND	3.89	2.59	2.32	AS23AP
2	SPDT	On-On	0.4V @ 28VAC/DC	360-2122-ND	3.46	2.16	1.98	AS12AH-RO
	SPDT	On-Off-On		360-2125-ND	3.59	2.29	2.10	AS13AH-RO
	DPDT	On-On		360-2128-ND	4.34	2.89	2.59	AS22AH-RO
	DPDT	On-Off-On		360-2130-ND	4.60	3.07	2.75	AS23AH-RO
3	SPDT	On-On	0.4V @ 28VAC/DC	360-2123-ND	3.46	2.16	1.98	AS12AV-RO
	SPDT	On-Off-On		360-2126-ND	3.59	2.29	2.10	AS13AV-RO
Miniature Power Rated Slides								
4	SPDT	On-On	3A @ 125VAC	360-2131-ND	1.95	1.16	1.04	CS12ANW03
	DPDT	On-On		360-2132-ND	2.48	1.54	1.35	CS22BNW03
Ultra-Miniature Slides								
5	SPDT	On-On	0.1A @ 30VDC	360-2133-ND	1.38	.82	.71	SS12SDP2
	SP3T	On-On-On		360-2135-ND	1.70	1.02	.89	SS14MDP2
	DPDT	On-On		360-2137-ND	1.63	.97	.86	SS22SDP2
6	SPDT	On-On	0.1A @ 30VDC	360-2134-ND	1.38	.82	.71	SS12SDH2
	SP3T	On-On-On		360-2136-ND	1.70	1.02	.89	SS14MDH2
	DPDT	On-On		360-2138-ND	1.63	.97	.86	SS22SDH2



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