



## Sealed Tiny Toggle Switches

**Contact Rating:** 0.4 VA max. @ 20V AC or DC max.  
**Case & Bushing:** Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0).  
**Actuator:** Brass, chrome plated. Internal o-ring seal.  
**Contacts & Terminals:** Copper alloy, with gold plate over nickel plate.  
**Terminal Seal:** Epoxy



Fig # 1



Fig # 2



Fig # 3



Fig # 4

### Single Pole Models

Termination	Actuator	Part Number	Action	Switch Function	Price
P.C. Term., Gold Plate Fig # 1	Bat Handle 0.40" long	ET01SD1CBE	SPDT	ON - NONE - ON	
		ET02SD1CBE	SPST	OFF - NONE - ON	
		ET03SD1CBE	SPDT	ON - OFF - ON	
		ET05SD1CBE	SPDT	MOM. - OFF - MOM.	
		ET07SD1CBE	SPDT	ON - OFF - MOM.	
P.C. Term., Gold Plate Right Angle Fig # 2	Bat Handle 0.240" long	ET01MD1ABE	SPDT	ON - NONE - ON	
		ET02MD1ABE	SPST	OFF - NONE - ON	
		ET03MD1ABE	SPDT	ON - OFF - ON	
		ET05MD1ABE	SPDT	MOM. - OFF - MOM.	
		ET07MD1ABE	SPDT	ON - OFF - MOM.	
P.C. Term., Gold Plate Right Angle, Verticle, Fig # 3	Bat Handle 0.240" long	ET01MD1AVBE	SPDT	ON - NONE - ON	
		ET02MD1AVBE	SPST	OFF - NONE - ON	
		ET03MD1AVBE	SPDT	ON - OFF - ON	
		ET05MD1AVBE	SPDT	MOM. - OFF - MOM.	
		ET07MD1AVBE	SPDT	ON - OFF - MOM.	
P.C. Term., Gold Plate Support Bracket Fig # 4	Bat Handle 0.240" long	ET08MD1ABE	SPDT	ON - NONE - MOM.	
		ET01MD1V3BE	SPDT	ON - NONE - ON	
		ET02MD1V3BE	SPST	OFF - NONE - ON	
		ET03MD1V3BE	SPDT	ON - OFF - ON	
		ET05MD1V3BE	SPDT	MOM. - OFF - MOM.	
ET07MD1V3BE	SPDT	ON - OFF - MOM.			
ET08MD1V3BE	SPDT	ON - NONE - MOM.			

### Double Pole Models

Termination	Actuator	Part Number	Action	Switch Function	Price
P.C. Term., Gold Plate Fig # 1	Bat Handle 0.40" long	ET21SD1CBE	DPDT	ON - NONE - ON	
		ET23SD1CBE	DPDT	ON - OFF - ON	
		ET24SD1CBE	3-way	ON - ON - ON	
		ET25SD1CBE	DPDT	MOM. - OFF - MOM.	
		ET27SD1CBE	DPDT	ON - OFF - MOM.	
P.C. Term., Gold Plate Right Angle Fig # 2	Bat Handle 0.240" long	ET28SD1CBE	DPDT	ON - NONE - MOM.	
		ET21MD1ABE	DPDT	ON - NONE - ON	
		ET23MD1ABE	DPDT	ON - OFF - ON	
		ET24MD1ABE	3-way	ON - ON - ON	
		ET25MD1ABE	DPDT	MOM. - OFF - MOM.	
P.C. Term., Gold Plate Right Angle, Verticle, Fig # 3	Bat Handle 0.240" long	ET27MD1ABE	DPDT	ON - OFF - MOM.	
		ET28MD1ABE	DPDT	ON - NONE - MOM.	
		ET21MD1AVBE	DPDT	ON - NONE - ON	
		ET23MD1AVBE	DPDT	ON - OFF - ON	
		ET24MD1AVBE	3-way	ON - ON - ON	
P.C. Term., Gold Plate Support Bracket Fig # 4	Bat Handle 0.240" long	ET25MD1AVBE	DPDT	MOM. - OFF - MOM.	
		ET27MD1AVBE	DPDT	ON - OFF - MOM.	
		ET28MD1AVBE	DPDT	ON - NONE - MOM.	
		ET21MD1V3BE	DPDT	ON - NONE - ON	
		ET23MD1V3BE	DPDT	ON - OFF - ON	
ET24MD1V3BE	3-way	ON - ON - ON			
ET25MD1V3BE	DPDT	MOM. - OFF - MOM.			
ET27MD1V3BE	DPDT	ON - OFF - MOM.			
ET28MD1V3BE	DPDT	ON - NONE - MOM.			

## Tiny Toggle Switches

**Contact Rating:** T101 & T201 models with numbers ending in "QE" are rated at 3 amps @ 120VAC or 28VDC. The other models ending in "QE" are rated 2 amps @ 120VAC or 28VDC. Part numbers ending in "BE" are rated 0.4VA max. @ 20VAC or DC max.  
**Case:** Glass filled nylon 6/6, flame retardant, heat stabilized or diallyl phthalate (DAP), (UL 94V-0).  
**Actuator:** Brass, chrome plated.  
**Bushing:** Brass, nickel plated.  
**Housing:** Stainless steel  
**Terminal Seal:** Epoxy  
**Hardware:** Nut & locking ring - Brass, nickel plated. Lockwasher - steel, nickel plated.



Fig # 5



Fig. # 6

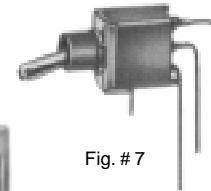


Fig. # 7



Fig # 8

### Single Pole Models

Termination	Actuator	Part Number	Action	Switch Function	Price
SolderTerm., Silver Plate Fig # 5	Bat Handle 0.37" long	T101SHZQE	SPDT	ON - NONE - ON	
		T103SHZQE	SPDT	ON - OFF - ON	
		T105SHZQE	SPDT	MOM. - OFF - MOM.	
		T107SHZQE	SPDT	ON - OFF - MOM.	
		T108SHZQE	SPDT	ON - NONE - MOM.	
P.C. Term., Silver Plate Fig # 5	Bat Handle 0.37" long	T101SHCQE	SPDT	ON - NONE - ON	
		T103SHCQE	SPDT	ON - OFF - ON	
		T105SHCQE	SPDT	MOM. - OFF - MOM.	
		T107SHCQE	SPDT	ON - OFF - MOM.	
		T108SHCQE	SPDT	ON - NONE - MOM.	
P.C. Term., Gold Plate Right Angle, Fig # 6	Bat Handle 0.210" long	T101MH9ABE	SPDT	ON - NONE - ON	
		T103MH9ABE	SPDT	ON - OFF - ON	
		T105MH9ABE	SPDT	MOM. - OFF - MOM.	
		T107MH9ABE	SPDT	ON - OFF - MOM.	
		T108MH9ABE	SPDT	ON - NONE - MOM.	
P.C. Term., Gold Plate Right Angle, Verticle Fig # 7	Bat Handle 0.210" long	T101MH9AVBE	SPDT	ON - NONE - ON	
		T103MH9AVBE	SPDT	ON - OFF - ON	
		T105MH9AVBE	SPDT	MOM. - OFF - MOM.	
		T107MH9AVBE	SPDT	ON - OFF - MOM.	
		T108MH9AVBE	SPDT	ON - NONE - MOM.	
P.C. Term., Gold Plate Support Bracket Fig # 8	Bat Handle 0.210" long	T101MH9V3BE	SPDT	ON - NONE - ON	
		T103MH9V3BE	SPDT	ON - OFF - ON	
		T105MH9V3BE	SPDT	MOM. - OFF - MOM.	
		T107MH9V3BE	SPDT	ON - OFF - MOM.	
		T108MH9V3BE	SPDT	ON - NONE - MOM.	

### Double Pole Models

Termination	Actuator	Part Number	Action	Switch Function	Price
SolderTerm., Silver Plate Fig # 5	Bat Handle 0.37" long	T201SHZQE	DPDT	ON - NONE - ON	
		T203SHZQE	DPDT	ON - OFF - ON	
		T205SHZQE	DPDT	MOM. - OFF - MOM.	
		T207SHZQE	DPDT	ON - OFF - MOM.	
		T208SHZQE	DPDT	ON - NONE - MOM.	
P.C. Term., Silver Plate Fig # 5	Bat Handle 0.37" long	T201SHCQE	DPDT	ON - NONE - ON	
		T203SHCQE	DPDT	ON - OFF - ON	
		T205SHCQE	DPDT	MOM. - OFF - MOM.	
		T207SHCQE	DPDT	ON - OFF - MOM.	
		T208SHCQE	DPDT	ON - NONE - MOM.	
P.C. Term., Gold Plate Right Angle, Fig # 6	Bat Handle 0.210" long	T201MH9ABE	DPDT	ON - NONE - ON	
		T203MH9ABE	DPDT	ON - OFF - ON	
		T205MH9ABE	DPDT	MOM. - OFF - MOM.	
		T207MH9ABE	DPDT	ON - OFF - MOM.	
		T208MH9ABE	DPDT	ON - NONE - MOM.	
P.C. Term., Gold Plate Right Angle, Verticle Fig # 7	Bat Handle 0.210" long	T201MH9AVBE	DPDT	ON - NONE - ON	
		T203MH9AVBE	DPDT	ON - OFF - ON	
		T205MH9AVBE	DPDT	MOM. - OFF - MOM.	
		T207MH9AVBE	DPDT	ON - OFF - MOM.	
		T208MH9AVBE	DPDT	ON - NONE - MOM.	
P.C. Term., Gold Plate Support Bracket Fig # 8	Bat Handle 0.210" long	T201MH9V3BE	DPDT	ON - NONE - ON	
		T203MH9V3BE	DPDT	ON - OFF - ON	
		T205MH9V3BE	DPDT	MOM. - OFF - MOM.	
		T207MH9V3BE	DPDT	ON - OFF - MOM.	
		T208MH9V3BE	DPDT	ON - NONE - MOM.	



Sealed Toggle Switches

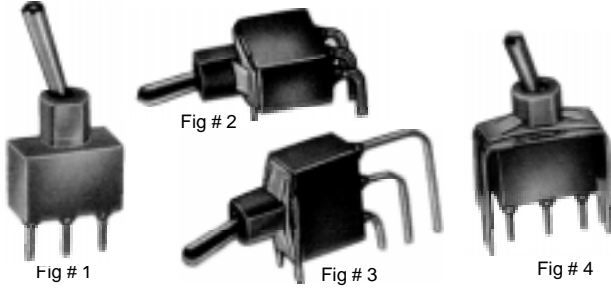
Contact Rating: 0.4 VA max. @ 20V AC or DC max.

Case & Bushing: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0).

Actuator: Brass, chrome plated. Internal o-ring seal.

Contacts & Terminals: Copper alloy, with gold plate over nickel plate.

Terminal Seal: Epoxy



Single Pole Models

Termination	Actuator	Part Number	Action	Switch Function	Price
P.C.Term., Gold Plate Fig # 1	Bat Handle 0.50" long	E101SD1CBE	SPDT	ON - NONE - ON	
		E103SD1CBE	SPDT	ON - OFF - ON	
		E105SD1CBE	SPDT	MOM. - OFF - MOM.	
		E107SD1CBE	SPDT	ON - OFF - MOM.	
P.C. Term., Gold Plate Right Angle Fig # 2	Bat Handle 0.30" long	E101MD1ABE	SPDT	ON - NONE - ON	
		E103MD1ABE	SPDT	ON - OFF - ON	
		E105MD1ABE	SPDT	MOM. - OFF - MOM.	
		E107MD1ABE	SPDT	ON - OFF - MOM.	
P.C. Term., Gold Plate Right Angle, Verticle, Fig # 3	Bat Handle 0.30" long	E101MD1AV2BE	SPDT	ON - NONE - ON	
		E103MD1AV2BE	SPDT	ON - OFF - ON	
		E105MD1AV2BE	SPDT	MOM. - OFF - MOM.	
		E107MD1AV2BE	SPDT	ON - OFF - MOM.	
P.C. Term., Gold Plate Support Bracket Fig # 4	Bat Handle 0.30" long	E101MD1V3BE	SPDT	ON - NONE - ON	
		E103MD1V3BE	SPDT	ON - OFF - ON	
		E105MD1V3BE	SPDT	MOM. - OFF - MOM.	
		E107MD1V3BE	SPST	ON - OFF - MOM.	

Double Pole Models

Termination	Actuator	Part Number	Action	Switch Function	Price
P.C.Term., Gold Plate Fig # 1	Bat Handle 0.50" long	E201SD1CBE	DPDT	ON - NONE - ON	
		E203SD1CBE	DPDT	ON - OFF - ON	
		E205SD1CBE	DPDT	MOM. - OFF - MOM.	
		E207SD1CBE	DPDT	ON - OFF - MOM.	
P.C. Term., Gold Plate Right Angle Fig # 2	Bat Handle 0.30" long	E201MD1ABE	DPDT	ON - NONE - ON	
		E203MD1ABE	DPDT	ON - OFF - ON	
		E205MD1ABE	DPDT	MOM. - OFF - MOM.	
P.C. Term., Gold Plate Right Angle, Verticle, Fig # 3	Bat Handle 0.30" long	E201MD1AV2BE	DPDT	ON - NONE - ON	
		E203MD1AV2BE	DPDT	ON - OFF - ON	
		E205MD1AV2BE	DPDT	MOM. - OFF - MOM.	
P.C. Term., Gold Plate, Support Bracket Fig # 4	Bat Handle 0.30" long	E201MD1V3BE	DPDT	ON - NONE - ON	
		E203MD1V3BE	DPDT	ON - OFF - ON	
		E205MD1V3BE	DPDT	MOM. - OFF - MOM.	

Three Pole Models

Termination	Actuator	Part Number	Action	Switch Function	Price
P.C.Term., Gold Plate Fig # 1	Bat Handle 0.50" long	E301SD1CBE	3PDT	ON - NONE - ON	
		E303SD1CBE	3PDT	ON - OFF - ON	
		E305SD1CBE	3PDT	MOM. - OFF - MOM.	
		E307SD1CBE	3PDT	ON - OFF - MOM.	
P.C. Term., Gold Plate Right Angle Fig # 2	Bat Handle 0.30" long	E301MD1ABE	3PDT	ON - NONE - ON	
		E303MD1ABE	3PDT	ON - OFF - ON	
P.C. Term., Gold Plate Right Angle, Verticle, Fig # 3	Bat Handle 0.30" long	E301MD1AV2BE	3PDT	ON - NONE - ON	
		E303MD1AV2BE	3PDT	ON - OFF - ON	
P.C. Term., Gold Plate, Support Bracket Fig # 4	Bat Handle 0.30" long	E301MD1V3BE	3PDT	ON - NONE - ON	
		E303MD1V3BE	3PDT	ON - OFF - ON	

7000 Series Toggle Switches

Contact Rating: 5 amps @ 120 VAC or 28 VDC; 2 amps @ 250 VAC

Case: Glass filled nylon 6/6, flame retardant, heat stabilized, (UL 94V-0),

Actuator: Brass, chrome plated

Bushing: Brass or zinc, nickel plated

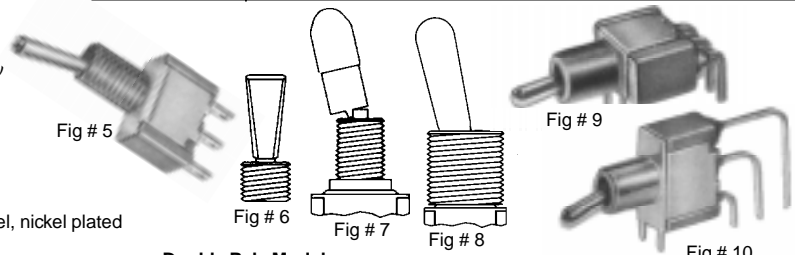
Housing: Stainless steel

End Contacts: Coin silver, silver plated

Center Contacts & all Terminals: Copper alloy, silver plated

Terminal Seal: Epoxy

Hardware: Nut & Locking ring - Brass, nickel plated. Lockwasher - Steel, nickel plated



Single Pole Models

Feature	Actuator	Part Number	Action	Switch Function	Price
Threaded Bushing 1/4 x 40 Solder Term.	Round Bat Handle 0.41" long Fig # 5	7101SYZQE	SPDT	ON - NONE - ON	
		7103SYZQE	SPDT	ON - OFF - ON	
		7105SYZQE	SPDT	MOM. - OFF - MOM.	
		7107SYZQE	SPDT	ON - OFF - MOM.	
	Flatted Handle 0.45" long Fig # 6	7101P3YZQE	SPDT	ON - NONE - ON	
		7103P3YZQE	SPDT	ON - OFF - ON	
		7105P3YZQE	SPDT	MOM. - OFF - MOM.	
		7107P3YZQE	SPDT	ON - OFF - MOM.	
	Locking Toggle Fig # 7	7101KZQE	SPDT	ON - NONE - ON	
		7103KZQE	SPDT	ON - OFF - ON	
Threaded Bushing 15/32 x 32 Solder Term.	Large Round Bat Handle .687" long Fig # 8	7101TZQE	SPDT	ON - NONE - ON	
		7103TZQE	SPDT	ON - OFF - ON	
		7105TZQE	SPDT	MOM. - OFF - MOM.	
		7107TZQE	SPDT	ON - NONE - MOM.	
P.C. Term., Gold Plate Right Angle *	Round Bat Handle 0.20" long Fig # 9	7101MD9ABE	SPDT	ON - NONE - ON	
		7103MD9ABE	SPDT	ON - OFF - ON	
		7105MD9ABE	SPDT	MOM. - OFF - MOM.	
		7107MD9ABE	SPDT	ON - OFF - MOM.	
P.C. Term., Gold Plate Right Angle, Verticle *	Fig # 10	7101MD9AV2BE	SPDT	ON - NONE - ON	
		7103MD9AV2BE	SPDT	ON - OFF - ON	
		7107MD9AV2BE	SPDT	ON - OFF - MOM.	
		7108MD9AV2BE	SPDT	ON - NONE - MOM.	

\* Contact Rating for Part Numbers ending in "BE" is 0.4 VA max. @ 20 VAC or DC max.

Double Pole Models

Feature	Actuator	Part Number	Action	Switch Function	Price	
Threaded Bushing 1/4 x 40 Solder Term.	Round Bat Handle 0.41" long Fig # 5	7201SYZQE	DPDT	ON - NONE - ON		
		7203SYZQE	DPDT	ON - OFF - ON		
		7205SYZQE	DPDT	MOM. - OFF - MOM.		
		7207SYZQE	DPDT	ON - OFF - MOM.		
		Flatted Handle 0.45" long Fig # 6	7201P3YZQE	DPDT	ON - NONE - ON	
			7203P3YZQE	DPDT	ON - OFF - ON	
Threaded Bushing 15/32 x 32 Solder Term.	Large Round Bat Handle .687" long Fig # 8	7201TZQE	DPDT	ON - NONE - ON		
		7203TZQE	DPDT	ON - OFF - ON		
		7205TZQE	DPDT	MOM. - OFF - MOM.		
		7207TZQE	DPDT	ON - OFF - MOM.		
P.C. Term., Gold Plate Right Angle *	Round Bat Handle 0.20" long Fig # 9	7201MD9ABE	DPDT	ON - NONE - ON		
		7203MD9ABE	DPDT	ON - OFF - ON		
P.C. Term., Gold Plate Right Angle, Verticle *	Fig # 10	7201MD9AV2BE	DPDT	ON - NONE - ON		
		7205MD9AV2BE	DPDT	MOM. - OFF - MOM.		
		7207MD9AV2BE	DPDT	ON - OFF - MOM.		

\* Contact Rating for Part Numbers ending in "BE" is 0.4 VA max. @ 20 VAC or DC max.



7000 Series Rocker & Lever Handle Switches

**Contact Rating:** 5 amps @ 120 VAC or 28 VDC; 2 amps @ 250 VAC  
**Case:** Glass filled nylon 6/6, flame retardant, heat stabilized, (UL 94V-0)  
**Actuator:** Nylon, black standard  
**Frame -- Front Mount:** Nylon, black standard  
**Frame -- Rear Mount:** Spring steel, black standard  
**Bushing:** Brass or zinc, nickel plated  
**Housing:** Stainless steel  
**End Contacts:** Coin silver, silver plated  
**Center Contacts & all Terminals:** Copper alloy, silver plated  
**Terminal Seal:** Epoxy  
**Hardware:** Nut, Screw & Lockwasher - Stainless Steel

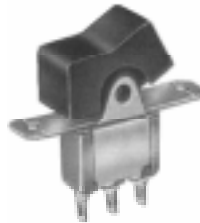


Fig # 1

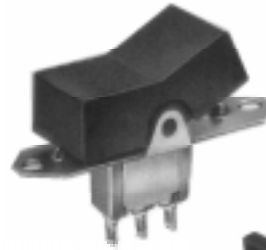


Fig # 2



Fig # 3

Single Pole Models

Part Number	Action	Switch Function	Price
<b>Small Rocker (Fig 1) .365" wide. Hole spacing .937"</b>			
7101J1ZQE2	SPDT	ON - NONE - ON	
7103J1ZQE2	SPDT	ON - OFF - ON	
7105J1ZQE2	SPDT	MOM. - OFF - MOM.	
7107J1ZQE2	SPDT	ON - OFF - MOM.	
7108J1ZQE2	SPDT	ON - NONE - MOM.	
<b>Large Rocker (Fig 2) .595" wide. Hole spacing 1.375"</b>			
7101J3ZQE2	SPDT	ON - NONE - ON	
7103J3ZQE2	SPDT	ON - OFF - ON	
7105J3ZQE2	SPDT	MOM. - OFF - MOM.	
7107J3ZQE2	SPDT	ON - OFF - MOM.	
7108J3ZQE2	SPDT	ON - NONE - MOM.	
<b>Small Lever (Fig 3) .365" wide. Hole spacing .937"</b>			
7101J2ZQE2	SPDT	ON - NONE - ON	
7103J2ZQE2	SPDT	ON - OFF - ON	
7105J2ZQE2	SPDT	MOM. - OFF - MOM.	
7107J2ZQE2	SPDT	ON - OFF - MOM.	
7108J2ZQE2	SPDT	ON - NONE - MOM.	
<b>Large Lever (Fig 4) .595" wide. Hole spacing 1.375"</b>			
7101J4ZQE2	SPDT	ON - NONE - ON	
7103J4ZQE2	SPDT	ON - OFF - ON	
7105J4ZQE2	SPDT	MOM. - OFF - MOM.	
<b>Snap-in Rocker (Fig 5) Hole Size .50" x .60"</b>			
7101J51ZQE22	SPDT	ON - NONE - ON	
7103J51ZQE22	SPDT	ON - OFF - ON	
7105J51ZQE22	SPDT	MOM. - OFF - MOM.	
7107J51ZQE22	SPDT	ON - OFF - MOM.	
7108J51ZQE22	SPDT	ON - NONE - MOM.	
<b>Snap-in Lever (Fig 6) Hole Size .50" x .60"</b>			
7101J61ZQE22	SPDT	ON - NONE - ON	
7103J61ZQE22	SPDT	ON - OFF - ON	
7105J61ZQE22	SPDT	MOM. - OFF - MOM.	
7107J61ZQE22	SPDT	ON - OFF - MOM.	
7108J61ZQE22	SPDT	ON - NONE - MOM.	

Double Pole Models

Part Number	Action	Switch Function	Price
<b>Small Rocker (Fig 1) .365" wide. Hole spacing .937"</b>			
7201J1ZQE2	DPDT	ON - NONE - ON	
7203J1ZQE2	DPDT	ON - OFF - ON	
7205J1ZQE2	DPDT	MOM. - OFF - MOM.	
7207J1ZQE2	DPDT	ON - OFF - MOM.	
7208J1ZQE2	DPDT	ON - NONE - MOM.	
<b>Large Rocker (Fig 2) .595" wide. Hole spacing 1.375"</b>			
7201J3ZQE2	DPDT	ON - NONE - ON	
7203J3ZQE2	DPDT	ON - OFF - ON	
7205J3ZQE2	DPDT	MOM. - OFF - MOM.	
7207J3ZQE2	DPDT	ON - OFF - MOM.	
7208J3ZQE2	DPDT	ON - NONE - MOM.	
<b>Small Lever (Fig 3) .365" wide. Hole spacing .937"</b>			
7201J2ZQE2	DPDT	ON - NONE - ON	
7203J2ZQE2	DPDT	ON - OFF - ON	
<b>Large Lever (Fig 4) .595" wide. Hole spacing 1.375"</b>			
7201J4ZQE2	DPDT	ON - NONE - ON	
7203J4ZQE2	DPDT	ON - OFF - ON	
7205J4ZQE2	DPDT	MOM. - OFF - MOM.	
7208J4ZQE2	DPDT	ON - NONE - MOM.	
<b>Snap-in Rocker (Fig 5) Hole Size .50" x .60"</b>			
7201J51ZQE22	DPDT	ON - NONE - ON	
7203J51ZQE22	DPDT	ON - OFF - ON	
7205J51ZQE22	DPDT	MOM. - OFF - MOM.	
7207J51ZQE22	DPDT	ON - OFF - MOM.	
7208J51ZQE22	DPDT	ON - NONE - MOM.	
<b>Snap-in Lever (Fig 6) Hole Size .50" x .60"</b>			
7201J61ZQE22	DPDT	ON - NONE - ON	
7203J61ZQE22	DPDT	ON - OFF - ON	
7205J61ZQE22	DPDT	MOM. - OFF - MOM.	
7207J61ZQE22	DPDT	ON - OFF - MOM.	
7208J61ZQE22	DPDT	ON - NONE - MOM.	



Fig # 4



Fig # 6



Fig # 5

Pushbutton Key Switches

KS Series



Fig # 7



Fig # 8

**Contact Rating:** 25 mA max. @ 50 V AC or DC max.  
**Case:** Glass filled nylon (UL 94 V-0)  
**Actuator:** ABS or polycarbonate -- ABS blend, matte finish, black standard  
**Movable Contact:** Beryllium copper, silver plated  
**Stationary Contacts & Terminals:** Copper alloy, silver plated  
**Terminal Seal:** Epoxy

Part Number	Fig #	Action	Switch Function	Cap Color	Price
KS11R21CQD	7	SPST	OFF - MOM.	White	\$0.00
KS11R22CQD	7	SPST	OFF - MOM.	Black	
KS11R33CQD	8	SPST	OFF - MOM.	Red	
KS12R21CQD	7	SPDT	ON - MOM.	White	
KS12R22CQD	7	SPDT	ON - MOM.	Black	

Mechanical Pushbutton Switches

MP Series

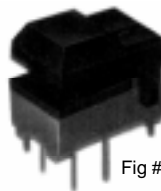


Fig # 9

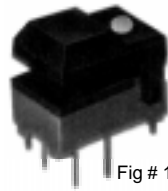


Fig # 10

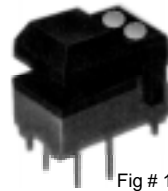


Fig # 11

**Switching Function:** SPDT Momentary  
**Contact Rating:** 0.4 VA max. @ 20 V AC or DC max.  
**Case:** Glass filled nylon  
**Cap:** Polycarbonate - ABS blend (UL 94V-0), matte finish, 9 colors available, black standard.  
**Contacts & Terminals:** Brass, with gold plate over nickel plate  
**Terminal Seal:** Epoxy

Part Number	Cap Color	No. of LEDs	LED Color	Fig #	Price
Cap Size .486 W x .673 D					
MP01R01CBE	White	None		9	\$0.00
MP01R02CBE	Black	None		9	
MP01R113CBE	White	1	Red	10	
MP01R123CBE	Black	1	Red	10	
MP01R2133CBE	White	2	Red, Red	11	
MP01R2233CBE	Black	2	Red, Red	11	
MP01R2236CBE	Black	1	Red, Green	10	
Cap Size .679 W x .673 D					
MP01S01CBE	White	None		9	
MP01S02CBE	Black	None		9	
MP01S113CBE	White	1	Red	10	
MP01S123CBE	Black	1	Red	10	
MP01S2133CBE	White	2	Red, Red	11	
MP01S2233CBE	Black	2	Red, Red	11	
MP01S2236CBE	Black	2	Red, Green	11	



## Sealed Tiny Pushbutton Switches

### EP Series

Contact Rating: 0.4 VA max. @ 20 VAC or DC max.

Case & Bushing: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0)

Plunger: Thermoplastic polyester or glass filled nylon (UL 94V-0), with internal o-ring seal

Contacts & Terminals: Copper alloy, with gold plate over nickel plate

Terminal Seal: Epoxy

#### Single Pole Models

Part Number	Action	Switch Function	Price
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#### P. C. Terminals Fig # 1

EP11SD1CBE	SPST	OFF - MOM.	
EP12SD1CBE	SPDT	ON - MOM.	

#### P. C. Terminals, Right Angle, Fig # 2

EP11SD1ABE	SPST	OFF - MOM.	
EP12SD1ABE	SPDT	ON - MOM.	

#### P. C. Terminals, Verticle, Right Angle, Fig # 3

EP11SD1AVBE	SPST	OFF - MOM.	
EP12SD1AVBE	SPDT	ON - MOM.	

#### P. C. Terminals, with Support Bracket, Fig # 4

EP11SD1V3BE	SPST	OFF - MOM.	
EP12SD1V3BE	SPDT	ON - MOM.	

#### Double Pole Models

Part Number	Action	Switch Function	Price
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#### P. C. Terminals Fig # 1

EP21SD1CBE	DPST	OFF - MOM.	
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#### P. C. Terminals, Right Angle, Fig # 2

EP21SD1ABE	DPST	OFF - MOM.	
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#### P. C. Terminals, Verticle, Right Angle, Fig # 3

EP21SD1AVBE	DPST	OFF - MOM.	
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#### P. C. Terminals, with Support Bracket, Fig # 4

EP21SD1V3BE	DPST	OFF - MOM.	
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Fig # 1



Fig # 2

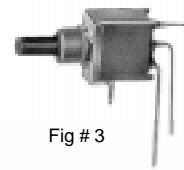


Fig # 3



Fig # 4

## Tiny Pushbutton Switches

### TP Series

Contact Rating: Solder Terminals: 1 AMP @ 120 VAC or 28 VDC

P.C. Terminals: 0.4 VA Max. @ 20 VAC or DC Max.

Case: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0)

Plunger: Thermoplastic polyester (UL 94V-0),

Cap & Frame: Nylon, black standard

Bushing: Brass, nickel plated

Housing: Stainless steel

Contacts & Terminals: Solder Terminals: Coin silver, silver plated

P.C. Terminals: Copper alloy, with gold plate over nickel plate.

Terminal Seal: Epoxy

#### Single Pole Models

Part Number	Action	Switch Function	Price
-------------	--------	-----------------	-------

#### Solder Terminals Fig # 5

TP11SHZQE	SPST	OFF - MOM.	
TP12SHZQE	SPDT	ON - MOM.	

#### P. C. Terminals, Right Angle, Fig # 6

TP11SH9ABE	SPST	OFF - MOM.	
TP12SH9ABE	SPDT	ON - MOM.	

#### P. C. Terminals, Verticle, Right Angle, Fig # 7

TP11SH9AVBE	SPST	OFF - MOM.	
TP12SH9AVBE	SPDT	ON - MOM.	

#### P. C. Terminals, with Support Bracket, Fig # 8

TP11SH9V3BE	SPST	OFF - MOM.	
TP12SH9V3BE	SPDT	ON - MOM.	

#### Double Pole Models

Part Number	Action	Switch Function	Price
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#### Solder Terminals Fig # 5

TP21SHZQE	DPST	OFF - MOM.	
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#### P. C. Terminals, Right Angle, Fig # 6

TP21SH9ABE	DPST	OFF - MOM.	
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#### P. C. Terminals, Verticle, Right Angle, Fig # 7

TP21SH9AVBE	DPST	OFF - MOM.	
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#### P. C. Terminals, with Support Bracket, Fig # 8

TP21SH9V3BE	DPST	OFF - MOM.	
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Fig # 5



Fig # 6

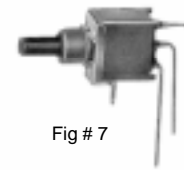


Fig # 7



Fig # 8

## Subminiature Pushbutton Switches

### 8500 Series



Fig # 9



Fig # 10

Contact Rating:

853 Models: 1 AMP @ 120 V AC or 28 V DC

855 Models: 3 AMPS @ 120 V AC or 28 V DC

Case: Glass filled phenolic or diallyl phthalate (DAP), (UL 94V-0)

Plunger: Phenolic or glass filled polyester, black standard (UL 94V-0)

Cap & Frame: Nylon, black standard

Bushing: Brass, nickel plated

Contacts: Coin silver, silver plated

Terminals: Copper alloy, silver plated

Terminal Seal: Epoxy

Hardware: Nut - Brass, nickel plated; Lockwasher - Steel, bright nickel plated

Part Number	Threaded Bushing	Terminals	Action	Switch Function		Fig #	Price
				Normal	Depressed		
8551MZQE2	1/4 x 40	Solder	SPST	OFF	ON, MOM.	9	\$ 00.00
8552MZQE2	1/4 x 40	Solder	SPST	OFF	ON, MOM.	9	
8551TZQE2	15/32 x 32	Solder	SPST	OFF	ON, MOM.	10	
8552TZQE2	15/32 x 32	Solder	SPST	OFF	ON, MOM.	10	
8531MCQE2	1/4 x 40	Printed Cir.	SPST	OFF	ON, MOM.	9	
8532MCQE2	1/4 x 40	Printed Cir.	SPST	OFF	ON, MOM.	9	
8533MCQE2	1/4 x 40	Printed Cir.	SPST	ON	OFF, MOM.	9	
8534MCQE2	1/4 x 40	Printed Cir.	SPST	ON	OFF, MOM.	9	
8551MCQE2	1/4 x 40	Printed Cir.	SPST	OFF	ON, MOM.	9	
8552MCQE2	1/4 x 40	Printed Cir.	SPST	OFF	ON, MOM.	9	
8531TCQE2	15/32 x 32	Printed Cir.	SPST	OFF	ON, MOM.	10	
8532TCQE2	15/32 x 32	Printed Cir.	SPST	OFF	ON, MOM.	10	
8533TCQE2	15/32 x 32	Printed Cir.	SPST	ON	OFF, MOM.	10	
8534TCQE2	15/32 x 32	Printed Cir.	SPST	ON	OFF, MOM.	10	
8551TCQE2	15/32 x 32	Printed Cir.	SPST	OFF	ON, MOM.	10	
8552TCQE2	15/32 x 32	Printed Cir.	SPST	OFF	ON, MOM.	10	



## Snap-Acting Momentary Pushbutton Switches

### 8020 Series

Contact Rating: See Notes below chart  
 Case: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0)  
 Plunger: Glass filled nylon or glass filled polyester (UL 94V-0)  
 Cap & Frame: Nylon, black, standard  
 Bushing: Brass or zinc, nickel plated  
 Housing: Stainless steel  
 Terminal Seal: Epoxy  
 Hardware: Nut & Locking ring - Brass, nickel plated; Lockwasher - Steel, nickel plated

#### Single Pole Models

Part Number	Notes	Action	Switch Function		Fig #	Price
			Normal	Depressed		
8121SHZGE	1, 2	SPDT	ON	MOM	1	\$ 00.00
8125SHZBE	1, 3	SPDT	ON	MOM	1	
8121J81ZGE22	1, 2	SPDT	ON	MOM	2	
8125J81ZBE22	1, 3	SPDT	ON	MOM	2	
8121J82ZGE22	1, 2, 5	SPDT	ON	MOM	3	
8125J82ZBE22	1, 3, 5	SPDT	ON	MOM	3	
8121J85ZGE223	1, 2, 6	SPDT	ON	MOM	4	
8121SD9AGE	4, 2	SPDT	ON	MOM	5	
8121SD8AGE	4, 2	SPDT	ON	MOM	5	
8125SD8ABE	4, 3	SPDT	ON	MOM	5	
8125SD9ABE	4, 3	SPDT	ON	MOM	5	

Note 1. Solder Terminals

Note 2. Contacts & Rating: Coin silver, with gold plate over nickel plate; 1 AMP @ 120 V AC or 28 V DC or 0.4 VA max. @ 20 V AC or DC max

Note 3. Contacts & Rating: Copper alloy, with gold plate over nickel plate 0.4 VA max. @ 20 V AC or DC max.

Note 4. Printed Circuit Terminals

Note 5. With frame for LED

Note 6. Built-in red LED



Fig # 1



Fig # 2



Fig # 3



Fig # 4



Fig # 5

#### Double Pole Models

Part Number	Notes	Action	Switch Function		Fig #	Price
			Normal	Depressed		
8221SHZGE	1, 2	DPDT	ON	MOM	1	\$ 00.00
8225SHZBE	1, 3	DPDT	ON	MOM	1	
8221J81ZGE22	1, 2	DPDT	ON	MOM	2	
8225J81ZBE22	1, 3	DPDT	ON	MOM	2	
8221J82ZGE22	1, 2, 5	DPDT	ON	MOM	3	
8225J82ZBE22	1, 3, 5	DPDT	ON	MOM	3	
8221SD9AGE	4, 2	DPDT	ON	MOM	5	

Note 1. Solder Terminals

Note 2. Contact Rating: 1 AMP @ 120 V AC or 28 V DC or 0.4 VA max. @ 20 V AC or DC max

Note 3. Contact Rating: 0.4 VA max. @ 20 V AC or DC max.

Note 4. Printed Circuit Terminals

Note 5. With frame for LED

## Alternate Action, Snap-Acting, Momentary Pushbutton Switches

### 8060 Series

Contact Rating: 0.4 VA Max. @ 20 V AC or DC Max. or 6 AMPS @ 120 V AC or 28 V DC; 3 AMPS @ 250 V AC  
 Case: Glass filled nylon 6/6, flame retardant, heat stabilized, or diallyl phthalate (DAP) (UL 94V-0)  
 Plunger: Glass filled nylon or glass filled polyester (UL 94V-0)  
 Cap & Frame: Nylon, black standard  
 Bushing: Brass or zinc, nickel plated  
 Housing: Stainless steel  
 End Contacts: Coin silver, with gold plate over nickel plate  
 Center Contacts & All Terminals: Copper alloy, with gold plate over nickel plate  
 Terminal Seal: Epoxy  
 Hardware: Nut & Locking ring - Brass, nickel plated; Lockwasher - Steel, nickel plated

#### Single Pole Models

Part Number	Notes	Action	Switch Function		Fig #	Price
			Normal	Depressed		
8161SHZGE	1	SPDT	ON	ON	6	\$ 00.00
8168SHZGE	1	SPDT	ON	MOM.	6	
8161J81ZGE22	1	SPDT	ON	ON	7	
8168J81ZGE22	1	SPDT	ON	MOM.	7	
8161J82ZGE22	1,3	SPDT	ON	ON	8	
8168J82ZGE22	1,3	SPDT	ON	MOM.	8	
8161J86ZGE223	1,4	SPDT	ON	ON	9	
8168J86ZGE223	1,4	SPDT	ON	MOM.	9	
8161SH9ABE	2,5	SPDT	ON	ON	10	
8168SH9ABE	2,5	SPDT	ON	MOM.	10	
8161SH9V3BE	2,5	SPDT	ON	ON	11	
8168SH9V3BE	2,5	SPDT	ON	MOM.	11	

Note 1. Solder Terminals

Note 2. Printed Circuit Terminals

Note 3. With frame for LED

Note 4. Built-in red LED

Note 5. Contacts & terminals are copper alloy, with gold plate over nickel plate. Contact Rating, 0.4 VA Max. @ 20 V AC or DC Max.



Fig # 6



Fig # 7



Fig # 8



Fig # 9



Fig # 10



Fig # 11

#### Double Pole Models

Part Number	Notes	Action	Switch Function		Fig #	Price
			Normal	Depressed		
8261SHZGE	1	DPDT	ON	ON	6	\$ 00.00
8261J81ZGE22	1	DPDT	ON	ON	7	
8261J82ZGE22	1,3	DPDT	ON	ON	8	
8261SH9ABE	2,4	DPDT	ON	ON	10	
8261SH9V3BE	2,4	DPDT	ON	ON	11	

Note 1. Solder Terminals

Note 2. Printed Circuit Terminals

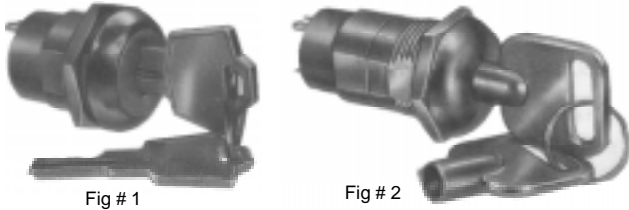
Note 3. With frame for LED

Note 4. Contacts & terminals are copper alloy, with gold plate over nickel plate. Contact Rating, 0.4 VA Max. @ 20 V AC or DC Max.



## 4 & 6 Tumbler Switchlocks

### Y Series



Contact Rating: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA)

Contacts & Terminals: Copper, silver plated

Lock: Zinc alloy with stainless steel facing

Keys: Two zinc alloy keys with chrome plating and code number

Switch Housing: Glass filled polyester (UL 94V-0)

Mounting Nut: Zinc alloy or steel, nickel plated or bright zinc plated

Threaded Bushing: 3/4 x 24

Part Number	Action	Key Removable in Positions	Fig #	Price
<b>4 Tumbler, 2 positions with detent</b>				
Y101132C203NQ	SPDT	1	1	\$ 00.00
Y1011U2C203NQ	SPDT	1 & 2	1	
Y201132C203NQ	DPDT	1	1	
Y2011U2C203NQ	DPDT	1 & 2	1	
<b>6 Tumbler, 2 positions, Tubular</b>				
Y101132V203NQ	SPDT	1	2	
Y1011U2V203NQ	SPDT	1 & 2	2	
Y201132V203NQ	DPDT	1	2	
Y2011U2V203NQ	DPDT	1 & 2	2	

### W Series



Fig # 3

Contact Rating: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA)

Contacts & Terminals: Copper, silver plated

Lock: Zinc alloy with stainless steel facing

Keys: Two brass keys, nickel plated and code number

Switch Housing: Glass filled 6/6 nylon (UL 94V-0)

Mounting Nut: Zinc alloy or steel, nickel plated or bright zinc plated

Threaded Bushing: 3/4 x 24

Part Number	Action	Key Removable in Positions	Terminals	Fig #	Price
<b>4 Tumbler, 2 positions with detent</b>					
W200132C205AQ	DPDT	1	Quick Con.	3	\$ 00.00
W200132C2WCAQ	DPDT	1	Leads	3	
<b>6 Tumbler, 2 positions, Tubular</b>					
W200132V205AQ	DPDT	1	Quick Con.	3	
W200132V2WCAQ	DPDT	1	Leads	3	

### YL Series 6 Tumbler, Tubular Camlocks

Indexing: 90° - 2 positions

Lock: Zinc alloy with stainless steel facing, standard, 6 tumbler tubular lock

Keys: Two chrome plated zinc alloy keys with code number

Cam: Steel, nickel or bright zinc plated

Mounting Nut: Zinc alloy or steel, nickel or bright zinc plated

Threaded Bushing: 3/4 x 24

Part Number	Cam Length from Mounting Center	Key Removable in Positions	Fig #	Price
<b>6 Tumbler, 2 position, Tubular</b>				
YL00132V2A1N	1.00 inch	1	7	\$ 00.00
YL001U2V2A1N	1.00 inch	1 & 2	7	
YL00132V2A2N	1.125 inch	1	7	
YL001U2V2A2N	1.125 inch	1 & 2	7	
YL00132V2A3N	1.25 inch	1	7	
YL001U2V2A3N	1.25 inch	1 & 2	7	

### YM Series Miniature

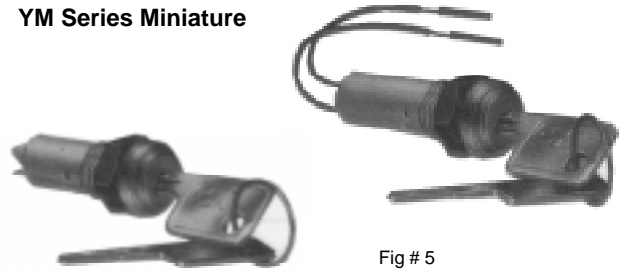


Fig # 4

Contact Rating: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA)

Contacts & Terminals: Copper, silver plated

Lock: Zinc alloy with stainless steel facing

Keys: Two brass, nickel plated and code number

Switch Housing: 6/6 Nylon (UL 94V-2)

Mounting Nut: Brass, bright zinc plated

Threaded Bushing: M12 x 1.25 6g THD. Mounting Hole 0.415 inches

Part Number	Action	Key Removable in Positions	Terminals	Fig #	Price
<b>4 Tumbler, 2 positions with detent</b>					
YM06132C205NQ	SPST	1	Quick Con.	4	\$ 00.00
YM06U2C205NQ	SPST	1 & 2	Quick Con.	4	
YM06132C2WCNQ	SPST	1	Leads	5	
YM06U2C2WCNQ	SPST	1 & 2	Leads	5	

### P Series Snap-In Plastic



Fig # 6

Contact Rating: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA)

Contacts & Terminals: Copper, silver plated

Switch Housing & Lock: One piece construction, 6/6 nylon (UL 94V-2), standard color, black, 4 disc tumbler mechanism

Keys: Two; 1 nickel plated brass key with insert molded plastic head, and 1 nickel plated brass key.

Switch Housing: 6/6 Nylon (UL 94V-2)

Mounting Nut: Brass, bright zinc plated

Switch Diameter: 0.804 inches

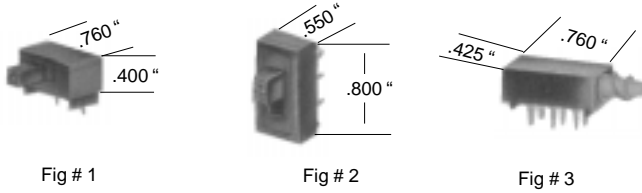
Part Number	Action	Key Removable in Positions	Fig #	Price
<b>4 Tumbler, 2 positions with detent</b>				
P10113TCM03Q22	SPDT	1	6	\$ 00.00
P20113TCM03Q22	DPDT	1	6	
P1011UTCM03Q22	SPDT	1 & 2	6	
P2011UTCM03Q22	DPDT	1 & 2	6	



Fig # 7

## Miniature Slide Switches

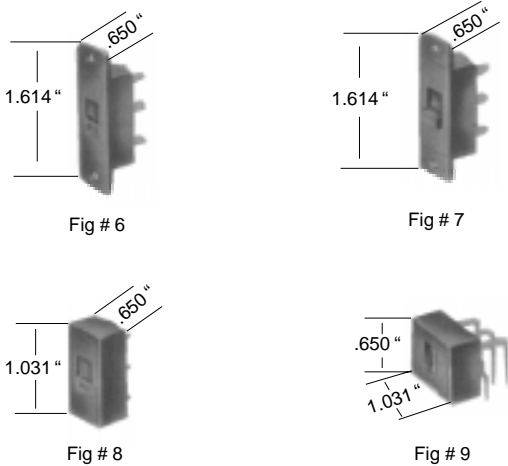
### L Series, P.C. Mount



Contact Rating: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA)  
 Contacts & Terminals: Copper, silver plated  
 Actuator: 6/6 nylon (UL 94V-2), black, standard  
 Housing: 6/6 nylon (UL 94V-0), black  
 Contact Spring: Music wire or stainless steel  
 Terminal Seal: Epoxy

Part Number	Action	Height of Actuator	Fig #	Price
L102021ML04Q	SPDT	0.335"	1	\$ 00.00
L202011MS02Q	DPDT	0.200"	2	
L212132MV02Q	DPDT-MOM.	0.330"	3	

### V Series Power & Line Voltage Select Slide Switches



Contact Rating: 10.1 AMPS @ 125 V AC; 4 AMPS @ 28 V DC; 5 AMPS @ 250 V AC (UL/CSA)  
 Contacts & Terminals: Copper, silver plated  
 Actuator: Glass filled polyester (UL 94V-0), black, standard  
 Housing & Top Plate: 6/6 nylon (UL 94V-2), black  
 Contact Spring: Music wire or stainless steel  
 Terminal Seal: Epoxy

Part Number	Action	Height of Actuator	Fig #	Price
V80212SS05Q	DPDT	Flush	6	\$ 00.00
V80201SS05Q	DPDT	0.157"	7	
V80212MS02Q	DPDT	Flush	8	
V80212MA08Q	DPDT	Flush	9	

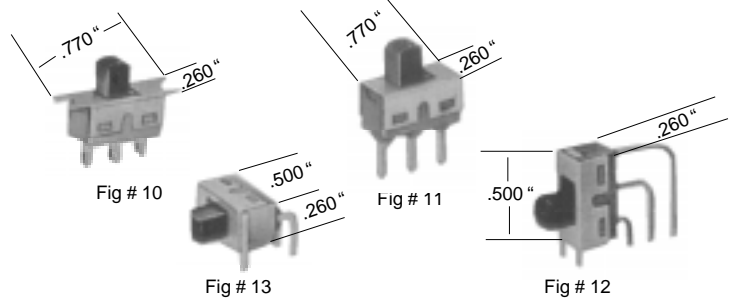
### S Series Slide Switches



Contact Rating: 6 AMPS @ 125 V AC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA)  
 Contacts & Terminals: Copper, silver plated  
 Actuator: 6/6 nylon (UL 94V-2), black, standard  
 Housing & Top Plate: 6/6 nylon (UL 94V-2), black  
 Contact Spring: Music wire or stainless steel  
 Terminal Seal: Epoxy

Part Number	Action	Height of Actuator	Fig #	Price
S102031SS03Q	SPDT	0.335"	4	\$ 00.00
S102031MS02Q	SPDT	0.335"	5	
S202031SS03Q	DPDT	0.335"	4	
S202031MS02Q	DPDT	0.335"	5	

### 1000 Series Miniature Slide Switches



Contact Rating: 6 AMPS @ 120 V AC or 28 V DC; 3 AMPS @ 250 V AC  
 End Contacts: Coin silver, silver plated  
 Center Contact & all Terminals: Copper alloy, silver plated  
 Actuator: Nylon, black, standard  
 Housing: Stainless steel  
 Switch Support: Brass or steel, tin plated  
 Terminal Seal: Epoxy  
 Height of Actuator: 0.200 inches

Part Number	Action	Notes	Switch Function	Fig #	Price
<b>Single Pole Models</b>					
1101M1S3ZQE2	SPDT	1	ON - NONE - ON	10	\$ 00.00
1103M1S3ZQE2	SPDT	1	ON - OFF - ON	10	
1108M1S3ZQE2	SPDT	1	ON - NONE - MOM	10	
1101M2S3ABE2	SPDT	2	ON - NONE - ON	13	
1103M2S3ABE2	SPDT	2	ON - OFF - ON	13	
1108M2S3ABE2	SPDT	2	ON - NONE - MOM	13	
1101M2S3AV2BE2	SPDT	2	ON - NONE - ON	12	
1103M2S3AV2BE2	SPDT	2	ON - OFF - ON	12	
1108M2S3AV2BE2	SPDT	2	ON - NONE - MOM	12	
1101M2S3CBE2	SPDT	2	ON - NONE - ON	11	
1101M2S3CQE2	SPDT	1	ON - NONE - ON	11	
1103M2S3CBE2	SPDT	2	ON - OFF - ON	11	
1103M2S3CQE2	SPDT	1	ON - OFF - ON	11	

Part Number	Action	Notes	Switch Function	Fig #	Price
<b>Double Pole Models</b>					
1201M1S3ZQE2	DPDT	1,3	ON - NONE - ON	10	
1203M1S3ZQE2	DPDT	1,3	ON - OFF - ON	10	
1201M2S3ABE2	DPDT	2,3	ON - NONE - ON	13	
1203M2S3ABE2	DPDT	2,3	ON - OFF - ON	13	
1201M2S3AV2BE2	DPDT	2,3	ON - NONE - ON	12	
1203M2S3AV2BE2	DPDT	2,3	ON - OFF - ON	12	
1201M2S3CBE2	DPDT	2,3	ON - NONE - ON	11	
1201M2S3CQE2	DPDT	1,3	ON - NONE - ON	11	
1203M2S3CBE2	DPDT	2,3	ON - OFF - ON	11	
1203M2S3CQE2	DPDT	1,3	ON - OFF - ON	11	

Note # 1: Contact Rating - 6 AMPS @ 120 V AC or 28 V DC; 3 AMPS @ 250 V AC  
 Note # 2: Contact Rating - 0.4 VA Max. @ 20 V AC or DC max.  
 Note # 3: DPDT models are .450" thick instead of .260"