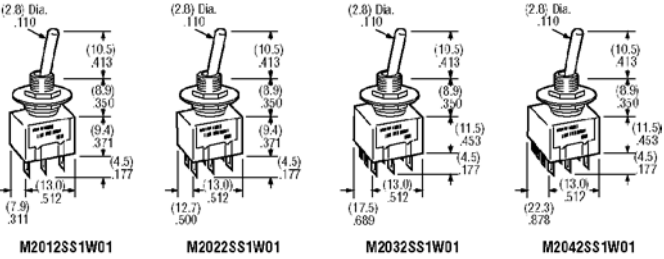


Subminiature Toggle Switches

**M Series Features:** 356,000 different configurations; most popular shown here. Epoxy sealed terminals, high torque bushings, anti-jamming levers, stainless steel housing. Bright chrome levers. 1/4"-40 threaded .350" long bushing with keyway. Solder lug terminals with holes .043" x .079". **Electrical Capacity:** 6 A @ 125 VAC or 30 VDC. **Dielectric Strength:** 1,500 VAC min. **Electrical Life:** 25,000 operations min. **Standard Hardware:** 2 hex nuts, 1 locking ring, 1 lockwasher.

Bat Lever with Threaded Bushing and Solder Lugs

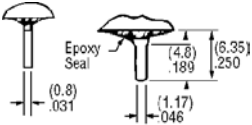


Lever of brass with bright chrome finish. Standard bushing and terminal characteristics noted in introduction.

| Stock No. | Mfr.'s Type | Pole Throw | Circuit<br>( ) = momentary | EACH  |       |         |
|-----------|-------------|------------|----------------------------|-------|-------|---------|
|           |             |            |                            | 1-24  | 25-99 | 100-499 |
| 870-9118  | M2011SS1W01 | SPST       | on-none-off                | 3.30  | 2.84  | 2.51    |
| 870-8600  | M2012SS1W01 | SPDT       | on-none-on                 | 3.50  | 3.01  | 2.66    |
| 870-8601  | M2013SS1W01 | SPDT       | on-off-on                  | 4.10  | 3.53  | 3.12    |
| 870-8602  | M2015SS1W01 | SPDT       | on-none-(on)               | 4.60  | 3.96  | 3.50    |
| 870-8603  | M2018SS1W01 | SPDT       | (on)-off-(on)              | 4.70  | 4.04  | 3.57    |
| 870-8604  | M2019SS1W01 | SPDT       | on-off-(on)                | 4.70  | 4.04  | 3.57    |
| 870-8610  | M2024SS1W01 | SP3T       | on-on-on                   | 7.50  | 6.45  | 5.70    |
| 870-8611  | M2026SS1W01 | SP3T       | (on)-on-(on)               | 7.90  | 6.79  | 6.00    |
| 870-8612  | M2027SS1W01 | SP3T       | on-on-(on)                 | 7.90  | 6.79  | 6.00    |
| 870-8605  | M2022SS1W01 | DPDT       | on-none-on                 | 5.25  | 4.52  | 3.99    |
| 870-8606  | M2023SS1W01 | DPDT       | on-off-on                  | 6.10  | 5.25  | 4.64    |
| 870-8607  | M2025SS1W01 | DPDT       | on-none-(on)               | 7.00  | 6.02  | 5.32    |
| 870-8608  | M2028SS1W01 | DPDT       | (on)-off-(on)              | 7.30  | 6.28  | 5.55    |
| 870-8609  | M2029SS1W01 | DPDT       | on-off-(on)                | 7.30  | 6.28  | 5.55    |
| 870-8617  | M2044SS1W01 | DP3T       | on-on-on                   | 17.50 | 15.05 | 13.30   |
| 870-8618  | M2046SS1W01 | DP3T       | (on)-on-(on)               | 17.50 | 15.05 | 13.30   |
| 870-8619  | M2047SS1W01 | DP3T       | on-on-(on)                 | 17.50 | 15.05 | 13.30   |
| 870-8613  | M2032SS1W01 | 3PDT       | on-none-on                 | 8.75  | 7.53  | 6.65    |
| 870-8614  | M2033SS1W01 | 3PDT       | on-off-on                  | 11.00 | 9.46  | 8.36    |
| 870-8615  | M2042SS1W01 | 4PDT       | on-none-on                 | 12.05 | 10.36 | 9.16    |
| 870-8616  | M2043SS1W01 | 4PDT       | on-off-on                  | 14.40 | 12.38 | 10.94   |

Bat Lever with Threaded Bushing and Straight PC Terminals

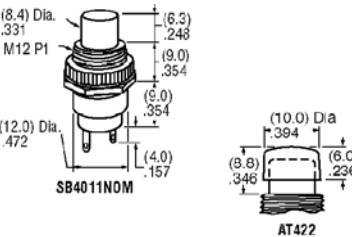
Silver plated PC terminals are spaced .185" center-to-center and .189" from pole to pole. Recommended PC board hole diameter is .073".



| Stock No. | Mfr.'s Type | Pole Throw | Circuit<br>( ) = momentary | EACH  |       |         |
|-----------|-------------|------------|----------------------------|-------|-------|---------|
|           |             |            |                            | 1-24  | 25-99 | 100-499 |
| 870-9105  | M2012SS1W03 | SPDT       | on-none-on                 | 3.62  | 3.11  | 2.75    |
| 870-9106  | M2013SS1W03 | SPDT       | on-off-on                  | 4.22  | 3.63  | 3.21    |
| 870-9107  | M2015SS1W03 | SPDT       | on-none-(on)               | 4.72  | 4.06  | 3.59    |
| 870-9108  | M2018SS1W03 | SPDT       | (on)-off-(on)              | 4.82  | 4.15  | 3.66    |
| 870-9109  | M2019SS1W03 | SPDT       | on-off-(on)                | 4.82  | 4.15  | 3.66    |
| 870-9110  | M2024SS1W03 | SP3T       | on-on-on                   | 7.74  | 6.66  | 5.88    |
| 870-9111  | M2022SS1W03 | DPDT       | on-none-on                 | 5.21  | 4.72  | 4.31    |
| 870-9112  | M2023SS1W03 | DPDT       | on-off-on                  | 6.34  | 5.45  | 4.82    |
| 870-9116  | M2032SS1W03 | 3PDT       | on-none-on                 | 9.11  | 7.83  | 6.82    |
| 870-9117  | M2042SS1W03 | 4PDT       | on-none-on                 | 12.53 | 10.78 | 9.52    |

SB Series Pushbuttons

Rugged subminiature pushbutton switch. NO = Normally Open and NC = Normally Closed. Black plunger. **Resistive Load:** 3 A @ 125 VAC. **Dielectric Strength:** 1,000 VAC minimum. **Electrical Life:** 10,000 operations minimum. **Travel:** .086". **Operating Force:** 500 grams.



Switches and Optional Slip-On Caps

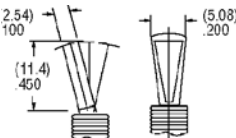
Order caps separately.

| Stock No. | Mfr.'s Type | Pole Throw | Circuit<br>( ) = momentary | Description | EACH |       |         |
|-----------|-------------|------------|----------------------------|-------------|------|-------|---------|
|           |             |            |                            |             | 1-24 | 25-99 | 100-499 |
| 870-0790  | SB4011NOM   | SPST       | off-(on)                   | Blk Plunger | 4.10 | 3.53  | 3.15    |
| 870-0791  | SB4011NCM   | SPST       | on-(off)                   | Blk Plunger | 4.10 | 3.53  | 3.15    |
| 870-0780  | AT422A      | Cap        | .394" Dia.                 | Black       | .40  | .34   | .30     |
| 870-0781  | AT422B      | Cap        | .394" Dia.                 | White       | .40  | .34   | .30     |
| 870-0782  | AT422C      | Cap        | .394" Dia.                 | Red         | .40  | .34   | .30     |

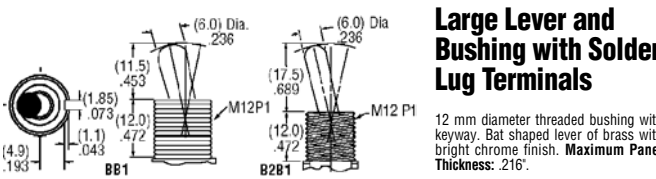
Subminiature Toggle and Pushbutton Switches

Flatted Lever, Threaded Bushing and Solder Lug Terminals

Lever of brass with bright chrome finish. Antirotation feature assures correctly aligned lever at all times. Standard bushing and terminal characteristics noted in introduction.



| Stock No. | Mfr.'s Type | Pole Throw | Circuit<br>( ) = momentary | EACH |       |         |
|-----------|-------------|------------|----------------------------|------|-------|---------|
|           |             |            |                            | 1-24 | 25-99 | 100-499 |
| 870-8646  | M2012ES1W01 | SPDT       | on-none-on                 | 4.50 | 3.87  | 3.42    |
| 870-8647  | M2013ES1W01 | SPDT       | on-off-on                  | 5.10 | 4.39  | 3.88    |
| 870-8648  | M2015ES1W01 | SPDT       | on-none-(on)               | 5.60 | 4.82  | 4.26    |
| 870-8649  | M2018ES1W01 | SPDT       | (on)-off-(on)              | 5.70 | 4.90  | 4.33    |
| 870-8650  | M2019ES1W01 | SPDT       | on-off-(on)                | 5.70 | 4.90  | 4.33    |
| 870-8651  | M2024ES1W01 | SP3T       | on-on-on                   | 8.50 | 7.31  | 6.46    |
| 870-8652  | M2022ES1W01 | DPDT       | on-none-on                 | 6.25 | 5.38  | 4.75    |
| 870-8653  | M2023ES1W01 | DPDT       | on-off-on                  | 7.10 | 6.11  | 5.40    |
| 870-8654  | M2026ES1W01 | DPDT       | on-none-(on)               | 8.00 | 6.88  | 6.08    |
| 870-8655  | M2028ES1W01 | DPDT       | (on)-off-(on)              | 8.30 | 7.14  | 6.31    |



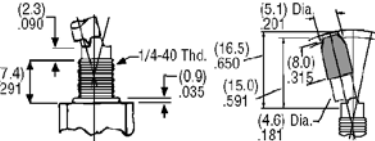
Large Lever and Bushing with Solder Lug Terminals

12 mm diameter threaded bushing with keyway. Bat shaped lever of brass with bright chrome finish. **Maximum Panel Thickness:** .216".

| Stock No. | Mfr.'s Type  | Pole Throw | Circuit<br>( ) = momentary | EACH  |       |         |
|-----------|--------------|------------|----------------------------|-------|-------|---------|
|           |              |            |                            | 1-24  | 25-99 | 100-499 |
| 870-9703  | M2011BB1W01  | SPST       | on-none-off                | 5.50  | 4.73  | 4.18    |
| 870-8656  | M2012BB1W01  | SPDT       | on-none-on                 | 5.70  | 4.90  | 4.33    |
| 870-8657  | M2013BB1W01  | SPDT       | on-off-on                  | 6.30  | 5.42  | 4.79    |
| 870-8659  | M2018BB1W01  | SPDT       | (on)-off-(on)              | 6.90  | 5.93  | 5.24    |
| 870-8661  | M2022BB1W01  | DPDT       | on-none-on                 | 7.45  | 6.41  | 5.66    |
| 870-8669  | M2032BB1W01  | 3PDT       | on-none-on                 | 10.95 | 9.42  | 8.32    |
| 870-8673  | M2042BB1W01  | 4PDT       | on-none-on                 | 14.25 | 12.26 | 10.83   |
| 870-5500  | M2011B2B1W01 | SPST       | on-none-off                | 5.50  | 4.71  | 4.19    |
| 870-5501  | M2012B2B1W01 | SPDT       | on-none-on                 | 5.70  | 4.89  | 4.34    |
| 870-5502  | M2018B2B1W01 | SPDT       | (on)-off-(on)              | 7.10  | 6.08  | 5.40    |
| 870-5503  | M2022B2B1W01 | DPDT       | on-none-on                 | 7.46  | 6.39  | 5.68    |
| 870-5504  | M2032B2B1W01 | 3PDT       | on-none-on                 | 10.96 | 9.39  | 8.34    |
| 870-5505  | M2042B2B1W01 | 4PDT       | on-none-on                 | 14.20 | 12.12 | 10.81   |

Locking Lever, Threaded Bushing and Solder Lug Terminals

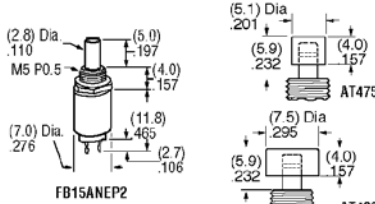
The lever locks in all maintained positions to prevent accidental actuation. Lever material is chrome plated brass with nickel plated cap. Antirotation feature prevents lever misalignment.



| Stock No. | Mfr.'s Type | Pole Throw | Circuit<br>( ) = momentary | EACH  |       |         |
|-----------|-------------|------------|----------------------------|-------|-------|---------|
|           |             |            |                            | 1-24  | 25-99 | 100-499 |
| 870-8676  | M2012LL1W01 | SPDT       | on-none-on                 | 6.08  | 5.23  | 4.62    |
| 870-8677  | M2013LL1W01 | SPDT       | on-off-on                  | 6.68  | 5.74  | 5.08    |
| 870-8678  | M2015LL1W01 | SPDT       | on-none-(on)               | 7.18  | 6.17  | 5.46    |
| 870-8679  | M2018LL1W01 | SPDT       | (on)-off-(on)              | 7.28  | 6.26  | 5.53    |
| 870-8680  | M2019LL1W01 | SPDT       | on-off-(on)                | 7.28  | 6.26  | 5.53    |
| 870-8681  | M2022LL1W01 | DPDT       | on-none-on                 | 7.83  | 6.73  | 5.95    |
| 870-8682  | M2023LL1W01 | DPDT       | on-off-on                  | 8.68  | 7.46  | 6.60    |
| 870-8684  | M2032LL1W01 | 3PDT       | on-none-on                 | 11.33 | 9.74  | 8.61    |
| 870-8686  | M2042LL1W01 | 4PDT       | on-none-on                 | 14.65 | 13.42 | 12.27   |

FB Series Pushbuttons

Super-subminiature, momentary with epoxy sealed solder lug/PC terminals. White plunger. **Resistive Load:** 500 mA @ 125 VAC. **Dielectric Strength:** 1,000 VAC min. **Electrical Life:** 50,000 operations min. **Total Travel:** .065". **Operating Force:** 220 grams average.



Switches and Optional Slip-On Caps

Order caps separately.

| Stock No. | Mfr.'s Type | Pole Throw | Circuit<br>( ) = momentary | Description | EACH |       |         |
|-----------|-------------|------------|----------------------------|-------------|------|-------|---------|
|           |             |            |                            |             | 1-24 | 25-99 | 100-499 |
| 870-0905  | FB15ANEP2   | SPST       | off-(on)                   | Wht Plunger | 3.45 | 2.97  | 2.66    |
| 870-1201  | AT475A      | Cap        | .201" dia.                 | Black       | .26  | .22   | .19     |
| 870-1202  | AT475B      | Cap        | .201" dia.                 | White       | .26  | .22   | .19     |
| 870-1200  | AT475C      | Cap        | .201" dia.                 | Red         | .26  | .22   | .19     |
| 870-0901  | AT496A      | Cap        | .295" dia.                 | Black       | .32  | .28   | .24     |
| 870-0902  | AT496B      | Cap        | .295" dia.                 | White       | .32  | .28   | .24     |
| 870-0900  | AT496C      | Cap        | .295" dia.                 | Red         | .32  | .28   | .24     |