

EN: This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at <u>www.hestore.hu</u>.







SPECIFICATIONS

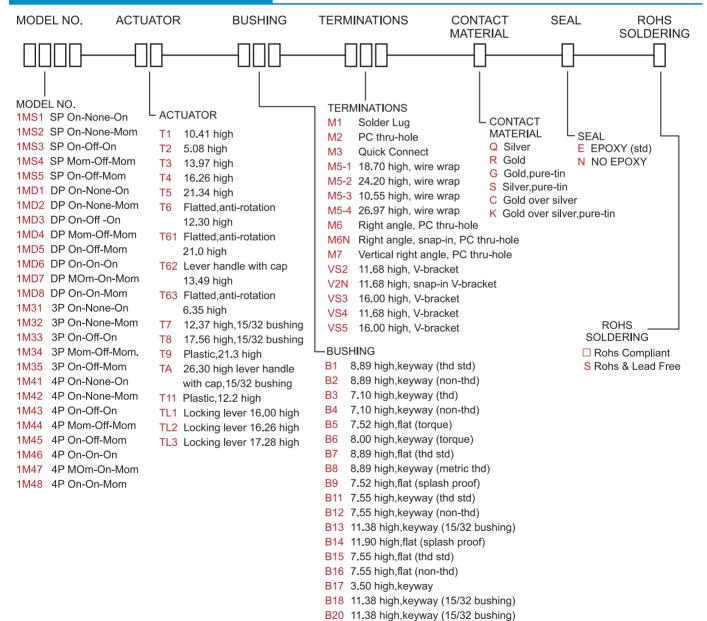
CONTACT RATING: Dependent upon contact material. MECHANICAL LIFE: 40,000 make-and-break cycles. CONTACT RESISTANCE: 10m Ω max. initial @ 2-4VDC 100mA for both silver and gold plated contacts. **INSULATION RESISTANCE:** $1,000M\Omega$ min.

DIELECTRIC STRENGTH: 1,000 V RMS@sea level. **OPERATING TEMPERATURE:** -30°C to 85°C.

MATERIALS

CASE: Diallyl phthalate (DAP) (UL94v-0). ACTUATOR: Brass, chrome plated. BUSHING: Brass, nickel plated. HOUSING: Stainless Steel. SWITCH SUPPORT: Brass, tin plated. TERMINAL/CONTACT: Silver or gold plated.(See Page 11)

HOW TO ORDER



B25 8.00 high, keyway, locking lever (thd) B26 8.00 high, keyway, locking lever (non-thd)



SWITCH FUNCTION

| | | | SWITCH FUNCTION | | CONNECTED TERMINALS / SCHEMATIC | | CHEMATIC | |
|--------------|-----------------|-------|-----------------|-------|---------------------------------|--|-------------------|--|
| NO. POLES | UL/CSA MODEL | MODEL | POS.1 | POS.2 | POS.3 | POS.1 | POS.2 | POS.3 |
| | NO. | NO. | | | 4 | h | + | 4 |
| SP | Q1111 | 1MS1 | ON | NONE | ON | | N1/A | |
| | Q1112 | 1MS2 | ON | NONE | МОМ | 2-3 | N/A | 2-1 |
| | Q1113 | 1MS3 | ON | OFF | ON | | | |
| | Q1114 | 1MS4 | MOM | OFF | МОМ | 1 • 2 (COMM) | OPEN | 2 (COMM) 1 • 3 |
| | Q1115 | 1MS5 | ON | OFF | МОМ | | | |
| DP | Q1121 | 1MD1 | ON | NONE | ON | | N1/A | |
| | Q1122 | 1MD2 | ON | NONE | МОМ | 2-3,5-6 | N/A | 2-1,5-4 |
| | Q1123 | 1MD3 | ON | OFF | ON | | | |
| | Q1124 | 1MD4 | МОМ | OFF | МОМ | $1 \stackrel{0}{\longrightarrow} 3 \qquad 4 \stackrel{0}{\longrightarrow} 6$ | OPEN | 1 • • 3 4 • • 6 |
| | Q1125 | 1MD5 | ON | OFF | МОМ | | | |
| | Q1126 | 1MD6 | ON | ON | ON | | | |
| | Q1127 | 1MD7 | MOM | ON | МОМ | 2-3,5-6 | 2-3,5-4 | 2-1,5-4 |
| | Q1128 | 1MD8 | ON | ON | МОМ | | | |
| 3P | Q1131 | 1M31 | ON | NONE | ON | | N1/A | |
| | Q1132 | 1M32 | ON | NONE | МОМ | 2-3,5-6,8-9 | N/A | 2-1,5-4,8-7 |
| | Q1133 | 1M33 | ON | OFF | ON | | | |
| | Q1134 | 1M34 | МОМ | OFF | МОМ | 1 • 3 4 • 6 7 • 9 | OPEN | 1 • 3 4 • 6 7 • 9 |
| | Q1135 | 1M35 | ON | OFF | МОМ | | | |
| 4P | Q1141 | 1M41 | ON | NONE | ON | | | |
| | Q1142 | 1M42 | ON | NONE | МОМ | 2-3,5-6,8-9,11-12 | N/A | 2-1,5-4,8-7,11-10 |
| | Q1143 | 1M43 | ON | OFF | ON | ۹2 ۹ 5(COMM) 8۹ 11۹ | | p 2 p 5(COMM) 8p 11p |
| | Q1144 | 1M44 | МОМ | OFF | МОМ | $1 \bullet \frac{\sqrt{2}}{3} \bullet \frac{\sqrt{5}(\text{COMM})}{6} \bullet \frac{8}{7} \bullet \frac{11}{9} \bullet \frac{11}{10} \bullet \frac{1}{12}$ | OPEN | $1 \underbrace{\overset{2}{}_{\bullet 3}}_{1 \bullet 3} \underbrace{\overset{5}{}_{\bullet 6}}_{\bullet 6} \underbrace{\overset{8}{}_{\bullet 6}}_{7 \bullet \bullet 9} \underbrace{\overset{11}{}_{10 \bullet \bullet 12}}_{10 \bullet \bullet 12}$ |
| | Q1145 | 1M45 | ON | OFF | МОМ | | | |
| | Q1146 | 1M46 | ON | ON | ON | | | |
| | Q1147 | 1M47 | MOM | ON | МОМ | 2-3,5-6,8-9,11-12 | 2-3,5-4,8-9,11-10 | 2-1,5-4,8-7,11-10 |
| | Q1148 | 1M48 | ON | ON | МОМ | | | |

MOM=MOMENTARY

A Please check the availability in advance before order

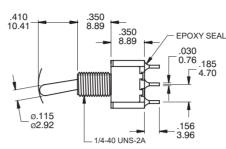


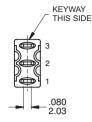
POLE OPTIONS

SPDT





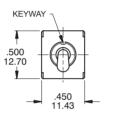


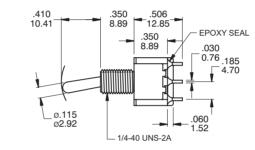


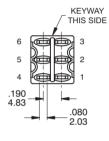
Part No. Shown : 1MS1T1B1M1QE

DPDT





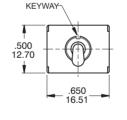


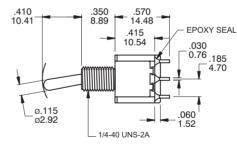


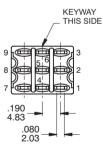
Part No. Shown : 1MD1T1B1M1QE

3PDT





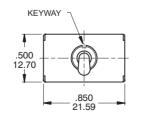


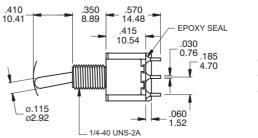


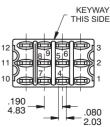
Part No. Shown : 1M31T1B1M1QE

4PDT





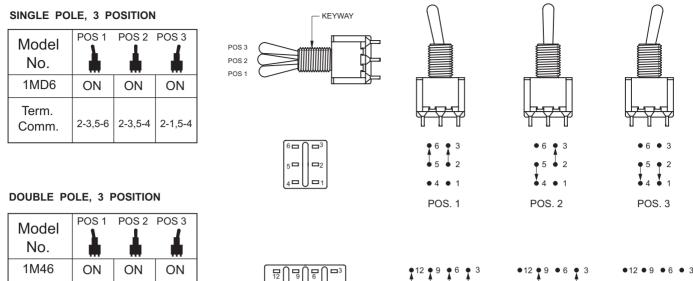






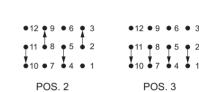
3-WAY SWITCHS

3-WAY WIRING DIAGRAM SCHEMATICS





POS. 1



1

ACTUATOR OPTIONS

2-3,5-4 8-9,11-10

2-1,5-4

8-7,11-10

11

10

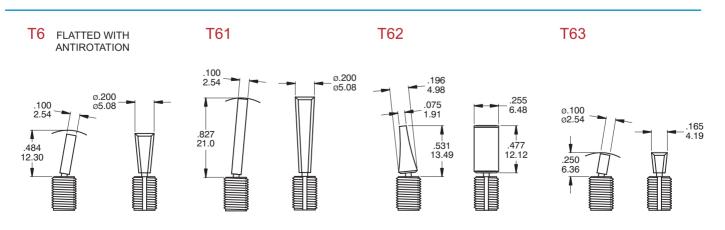
2-3,5-6

8-9.11-12

Term.

Comm.

| T1 STD | T2 | Т3 | Т4 | T5 |
|-----------------------|--|----|-------------------------------|---------------------------------|
| 0.115 02.92 | 0.105 02.67 02.67 0.101 0.41 0.41 | | 0.130 03.30 13.97 16 | 0.130 03.30 8.40 21.34 |
| NOTE T A S S | | | | |



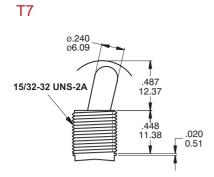
NOTE T6,T6-1,T6-2,T63 use with B11, B12, B15, B16 bushing only.

ø.240 ø6.09

Use with B13 bushing

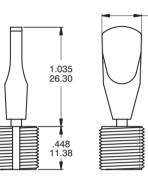


Т9



Use with B13 bushing Use with B18,B20 the lever is antirotation and the size of lever is 13.00mm

TA PLASTIC BLACK



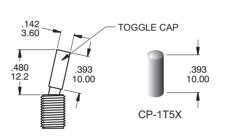
Use with B18 bushing only

T11

.413 10.50

15/32-32 UNS-2A

T8



.691

17.56

.448 11.38

Use with B18,B20 the lever is antirotation

and the size of lever is 18.00mm

.020 0.51

NOTE T11Actuator shown with standard B1 Bushing ; Add .070 (1.78) for B3 Bushing ; Subtract .020 (0.51) for B6 Bushing. Std for M1.M2 Terminal sub .016 (0.40) for M6.M7.VSX

ø.129 ø3.28 .630 Gloss Finish 16.00 .839 21.3 Plastic Chrome Finish

B1 / B2 bushing std with black and red color only (std.)



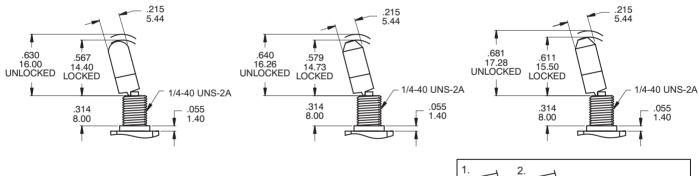
Toggle Switches

T6-2, TA, T9, T11 ACTUATOR ONLY

TL1B25

TL2B25

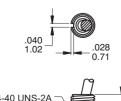
TL3B25

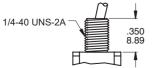




BUSHING OPTIONS

B1 THD STD B2 NON-THD





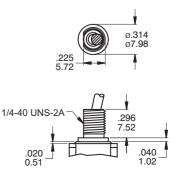
B3 THD **B4 NON-THD**

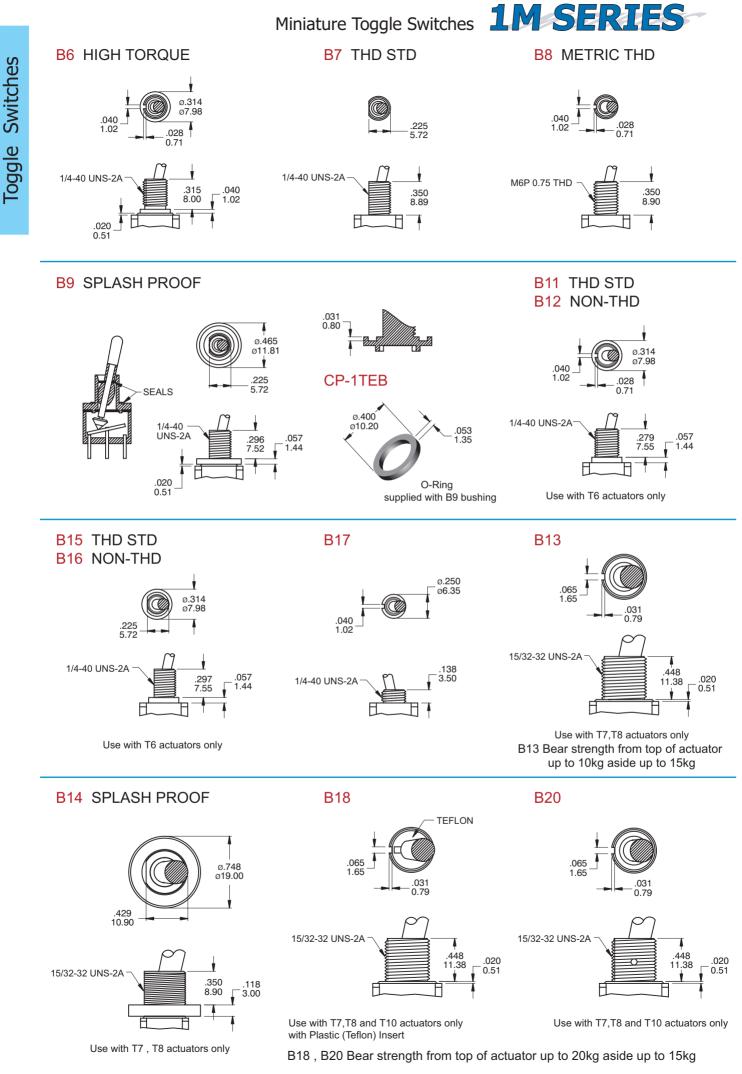




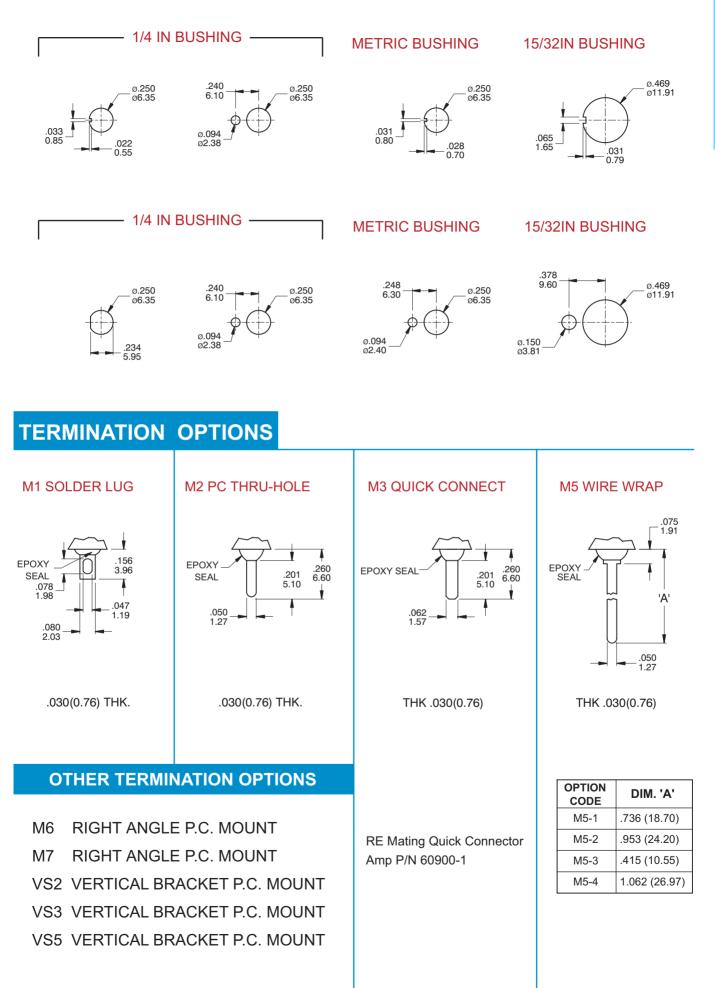
M7 and VS2~5 termination options.

B5 HIGH TORQUE

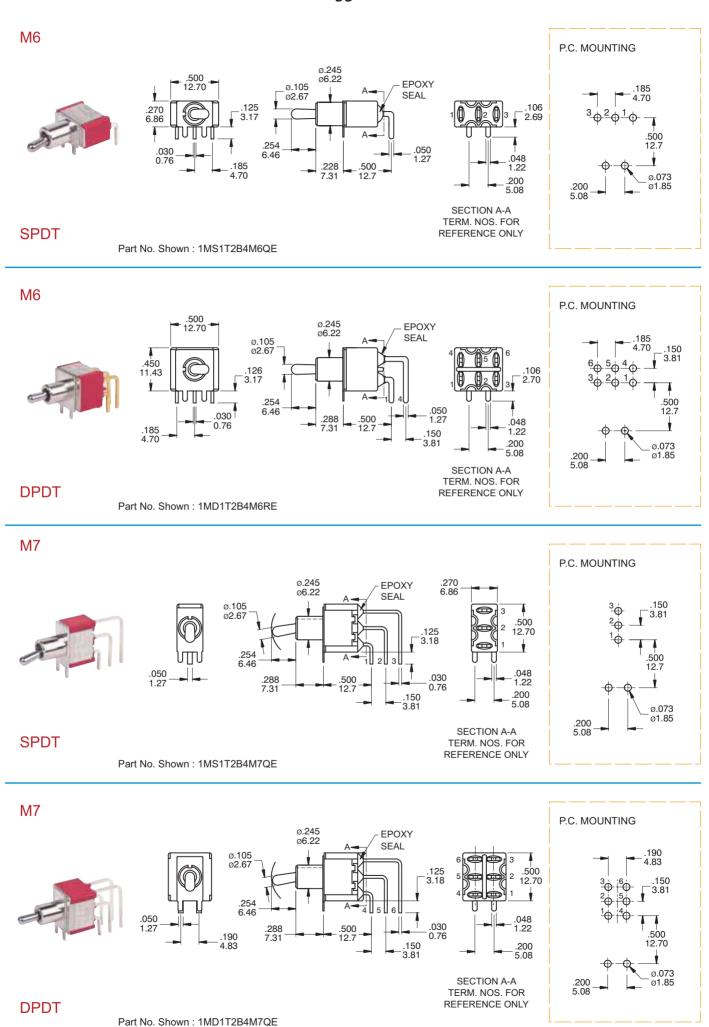




PANEL MOUNTING

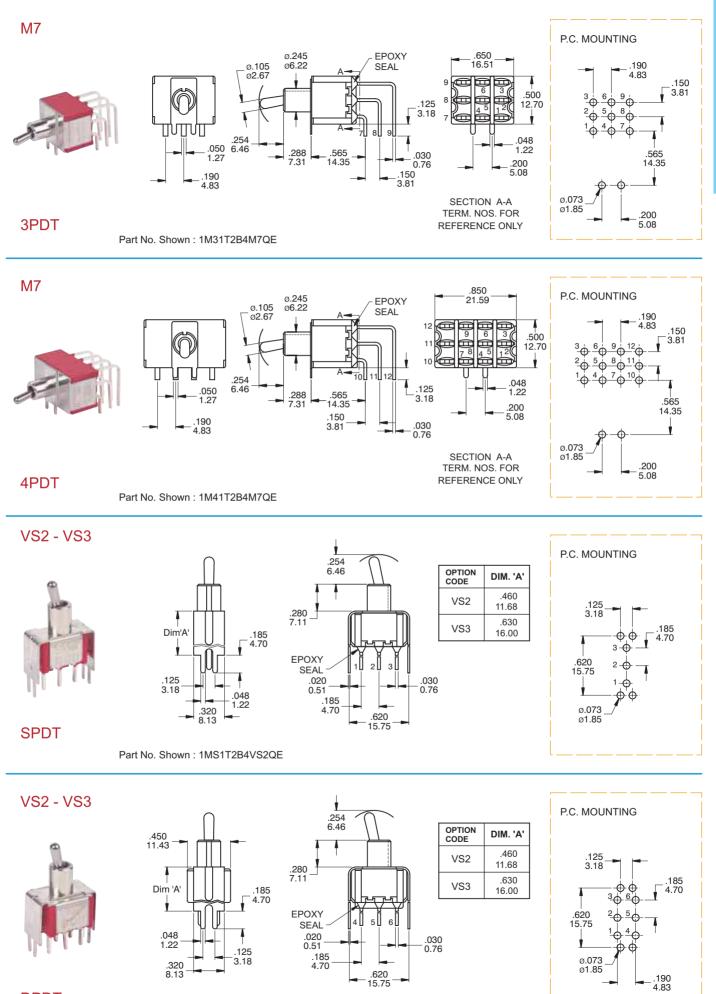








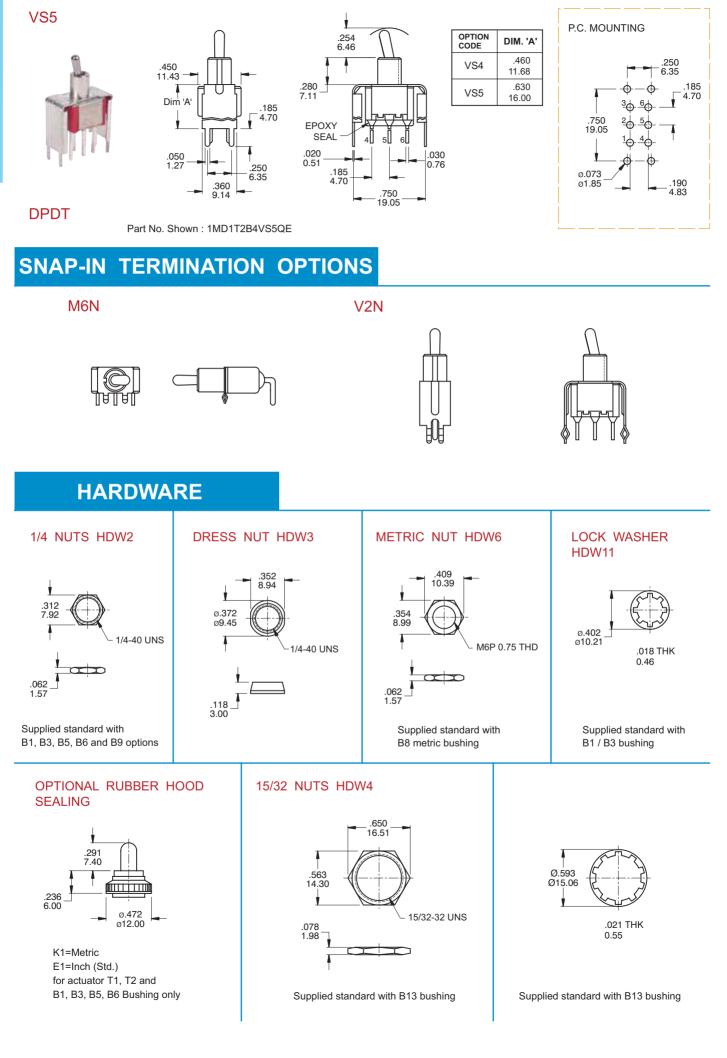
Toggle Switches



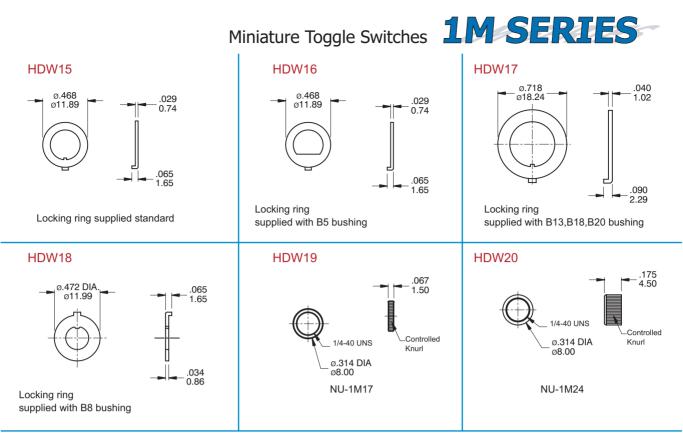
Part No. Shown : 1MD1T2B4VS3QE

DPDT





10



OPTIONAL TOGGLE CAP



Use with T1

9.73



CP-1T2X



Use with T2

| CAP Color : | | |
|-------------|-------------|--|
| ITEM NO | COLOR | |
| 1 | White | |
| 2 | Black (Std) | |
| 3 | Red | |
| 4 | Orange | |
| 5 | Yellow | |
| 6 | Green | |
| 7 | Blue | |
| 8 | Brown | |
| 9 | Gray | |

CONTACT MATERIAL OPTIONS

| \square | CONTACT MATERIAL | TERMINAL PLATING | RATINGS | |
|-----------|------------------|------------------------------------|---|--|
| Q | Silver | Q = Silver | | |
| S | Silver | <mark>S</mark> = Silver,pure - tin | 5 Amps with resistant load @ 120VAC or 28VDC | |
| С | Gold over Silver | C = Gold over silver | 2 Amps with resistant load @ 250VA | |
| K | | K = Gold over silver,pure - tin | | |
| R | Gold | R = Gold | 0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC) | |
| G | Cold | G = Gold,pure - tin | | |

Toggle Switches









SOLDERING PROCESSES

MANUAL SOLDERING : Use soldering iron of 30 watts, controlled st 350°C approximately 5 seconds while applying solder. WAVE SOLDERING : Recommended Soldering Temperature : 260 ± 5°C Duration of Solder Immersion : 5 ± 1 seconds (PCB is 1.6mm in thickness)

SOLDERING : Vapor phase

| | Temperature Profile | |
|---|---------------------|------------|
| Zone | Room Temperature | Time (Sec) |
| Pre-heat (A) | 150°C | Min 120s |
| Soak (B) | 180°C ~ 200°C | Min 150s |
| Peak (C) | 200°C ~ 235°C | Min 30s |
| Peak (D) | 235°C ~ 260°C | Min 40s |
| Peak (E) | 260°C | Max 10s |
| (°C) 250 200 150 100 50 A Room | Peak : 260°C | E |
| Temperature | | Time (Sec) |
| | | |
| | | |