



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See page 99.

MECHANICAL LIFE: 50,000 make-and-break cycles.
CONTACT RESISTANCE: 20m Ω max. initial @ 2-4VDC
100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000M Ω min.
DIELETRIC STRENGTH: 1,000 V RMS@seal level.
OPERATING TEMPERATURE: -30°C to 85°C.

MATERIALS

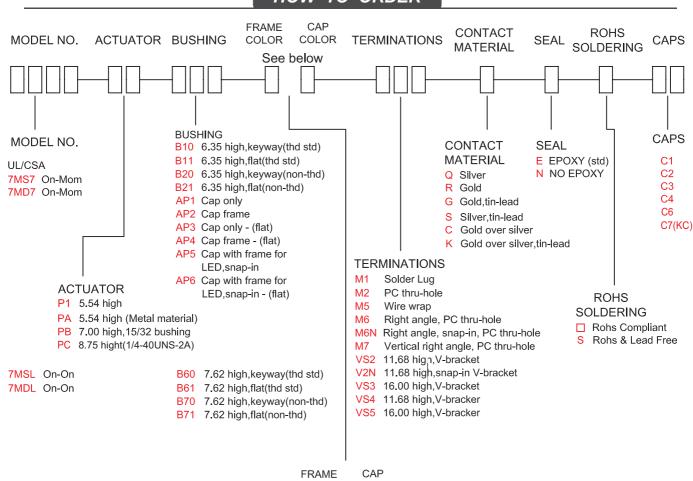
CASE - Diallyl phthalate (DAP)(UL94V-0).

PLUNGER - Glass filled Nylon or Glass filled polyester.

BUSHING - Brass, nickel plated. **HOUSING -** Stainless Steel.

CONTACT - Silver or gold plated. (See Page 112)

HOW TO ORDER



FRAME CAP COLOR COLOR See below

ITEN NO	COLOR
1	White
2	Black (Std)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray



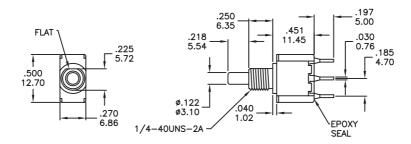
SWITCH FUNCTION

	UL/CSA		SWITCH F	UNCTION	CON	NECTED TERMINA	ALS
NO.	MODEL	MODEL	POS.1	POS.2	POS.1	POS.2	SCHEMATIC
FOLLS	NO.	NO.	1	4	1	1	
SP	Q2717	7MS7	ON	MOM	1-3	1-2	NC 3 •2ND
DP	Q2727	7MD7	ON	MOM	1-3,4-6	1-2,4-5	NC 3 • 2ND NC 6 • 5ND

MOM=MOMENTARY

POLE OPTIONS



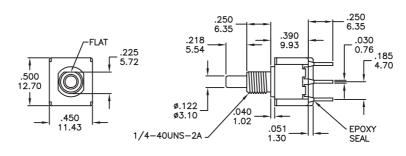


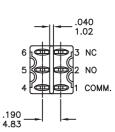


SPDT

Part No. Shown: 7MS7P1B11M1QE







DPDT

Part No. Shown: 7MD7P1B11M2QE

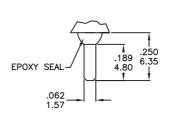
TERMINATION OPTIONS

M1 SOLDER LUG M2 P.C. MOUNT EPOXY SEAL .213 5.40 SEAL .080 .030(0.76) THK. .030(0.76) THK.

OTHER TERMINATION OPTIONS

М6	RIGHT ANGLE P.C. MOUNT
М7	RIGHT ANGLE P.C. MOUNT
VS2	VERTICAL SUPPORT P.C. MOUNT
VS3	VERTICAL SUPPORT P.C. MOUNT
VS4	VERTICAL SUPPORT P.C. MOUNT
VS5	VERTICAL SUPPORT P.C. MOUNT

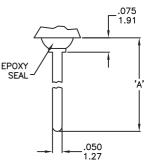
M3 QUICK CONNECT



.030(0.76) THK.

RE Mating Quick Connector Amp P/N 60900-1

M5 WIRE WRAP



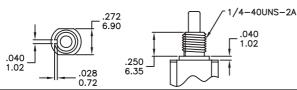
THK .030(0.76)

OPTION CODE	DIM. 'A'
M5-1	.750(19.05)
M5-2	.964(24.48)
M5-3	.426(10.80)
M5-4	.650(16.50)

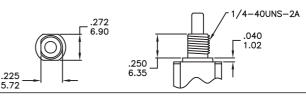


BUSHING OPTIONS



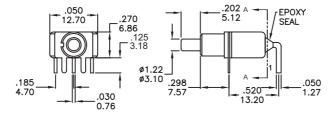


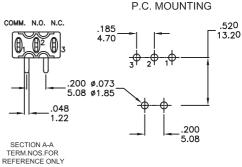
B11 THD STD B21 NON-THD





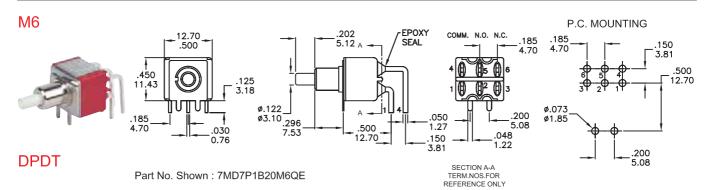


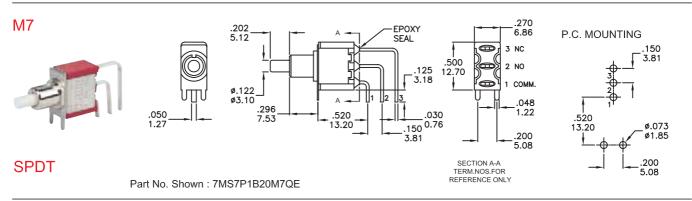


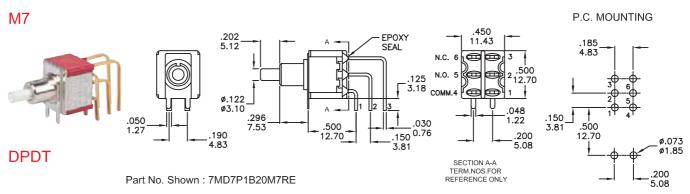


SPDT

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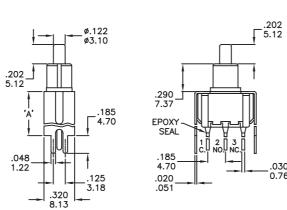




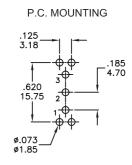




SPDT



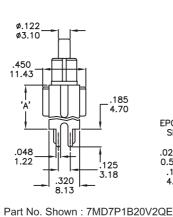
OPTION CODE	DIM. 'A'
VS2	.460 11.68
VS3	.630 16.00



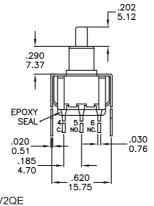
VS₂



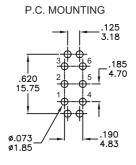
DPDT



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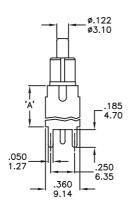
OPTION CODE DIM. 'A' .460 11.68 VS2 .630 16.00 VS3

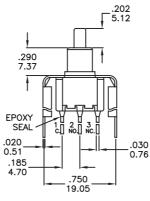


VS4-VS5

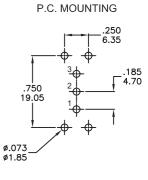


SPDT





OPTION CODE	DIM. 'A'
VS4	.460 11.68
VS5	.630 16.00

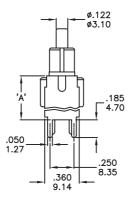


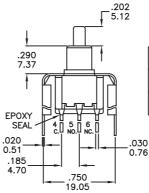
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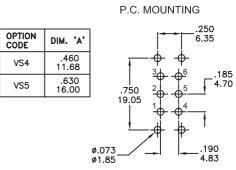




DPDT







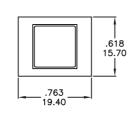
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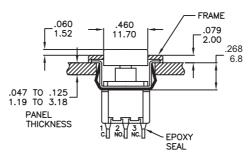


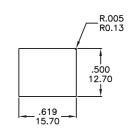
PANEL MOUNT

AP2 CAP & FRAME / AP1 CAP ONLY









INCREASE TO .620/.625 15.75/15.88 FOR .091/.125 2.31/3.18 THK PANEL

PANEL LAYOUT

SPDT

DPDT

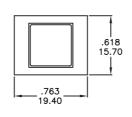
SPDT

DPDT

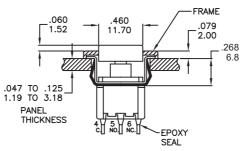
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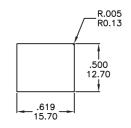
AP2 CAP & FRAME / AP1 CAP ONLY





Part No. Shown: 7MD7AP223M1QE



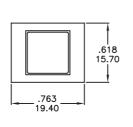


INCREASE TO .620/.625 15.75/15.88 FOR .091/.125 2.31/3.18 THK PANEL

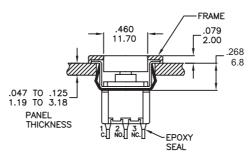
PANEL LAYOUT

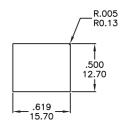
AP4 CAP & FRAME / AP3 CAP ONLY





Part No. Shown: 7MS7AP423M1RE



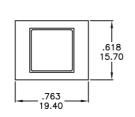


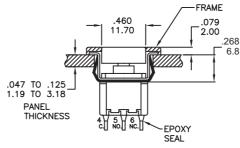
INCREASE TO .620/.625 15.75/15.88 FOR .091/.125 2.31/3.18 THK PANEL

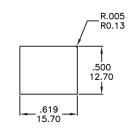
PANEL LAYOUT

AP4 CAP & FRAME / AP3 CAP ONLY





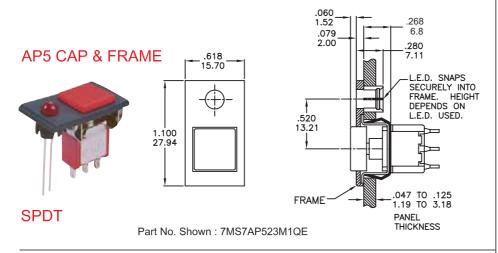


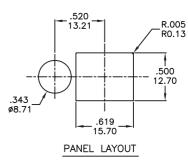


INCREASE TO .620/.625 15.75/15.88 FOR .091/.125 2.31/3.18 THK PANEL

PANEL LAYOUT

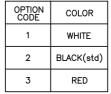
Part No. Shown: 7MD7AP423M1RE





CAP AND FRAME COLORS

OPTION CODE	COLOR
1	WHITE
2	BLACK(std)
3	RED

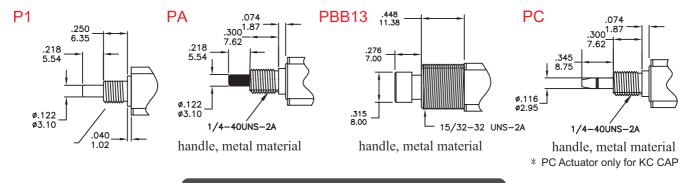


.268 6.8 .079 2.00 .280 **AP6 CAP & FRAME** .618 15.70 L.E.D. SNAPS C.E.D. SNAPS
"SECURELY INTO
FRAME. HEIGHT
DEPENDS ON
L.E.D. USED. .520 13.21 1.100 27.94 .450 .047 TO .125 1.19 TO 3.18 FRAME **DPDT** PANEL THICKNESS Part No. Shown: 7MS7AP623M1RE

LED COLORS

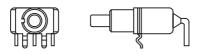
OPTION CODE	COLOR
3	RED(std)
4	ORANGE
6	GREEN

ACTUATOR

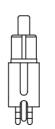


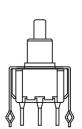
SNAP-IN TERMINATION OPTIONS

M₆N









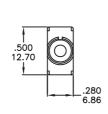


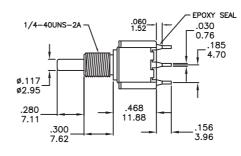
SWITCH FUNCTION

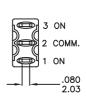
	UL/CSA		SWITCH I	UNCTION	CC	NNECTED TERM	/INALS/SC	CHEMATIC
NO.	MODEL	MODEL	POS.1	POS.2		POS.1		POS.2
FOLLS	NO.	NO.	1			1		1
SP	Q271L	7MSL	ON	ON	1-2	ON 1 2(COMM)	2-3	ON 1 · SON
DP	Q272L	7MDL	ON	ON	1-2,4-5	2(CCIMH) 5, ON 1 •3ON ON 4 •6ON	2-3,5-6	ON 1 • 30N ON 4 • 60N

POLE OPTIONS





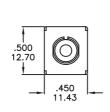


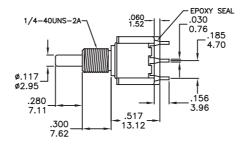


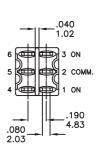
SPDT

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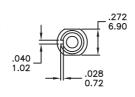


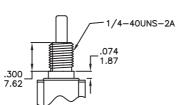
DPDT

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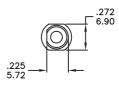
BUSHING OPTIONS

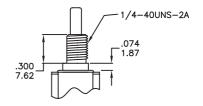
B60 THD STD B70 NON-THD





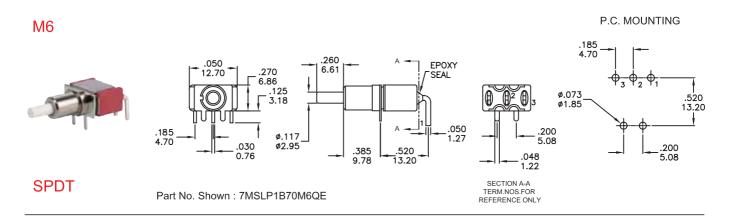
B61 THD STD B71 NON-THD

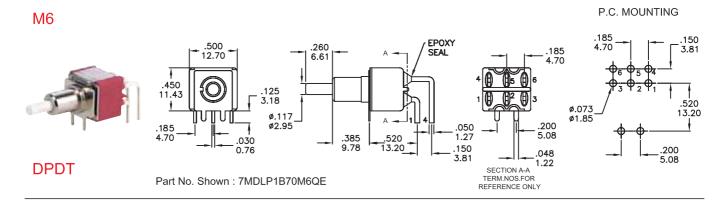




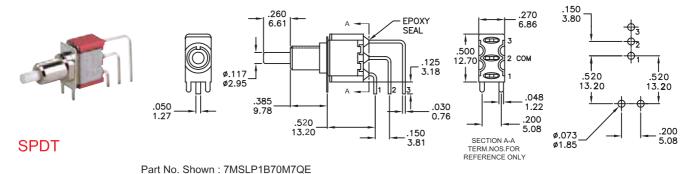


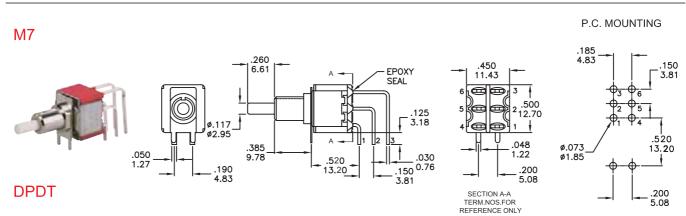
TERMINATION OPTIONS











Part No. Shown: 7MDLP1B70M7QE



OPTION CODE

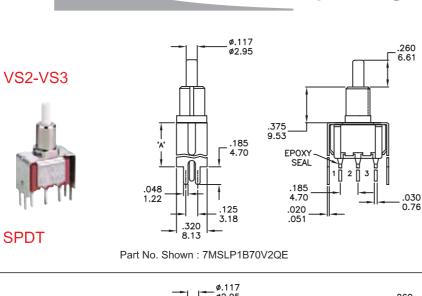
VS2

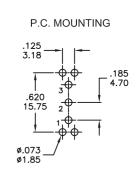
VS3

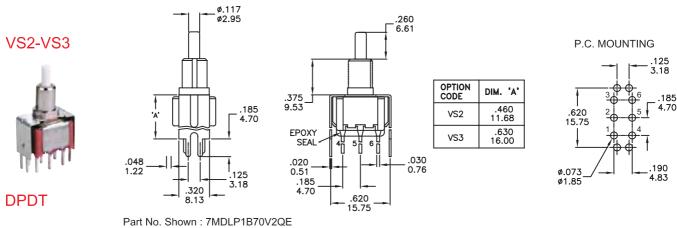
DIM. 'A'

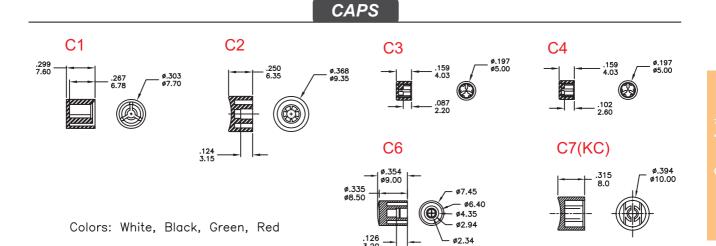
.460 11.68

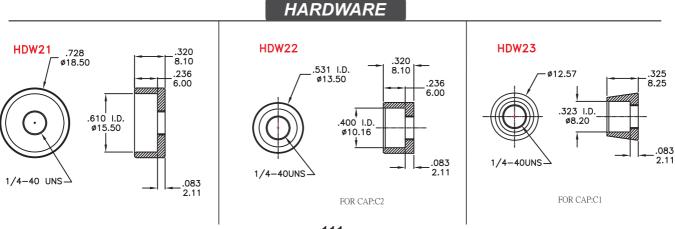
.630 16.00













CONTACT MATERIAL OPTIONS

	CONTACT MATERIAL	TERMINATION RATING	RATINGS
Q	Silver	Q = Silver	
S	Silver	S = Silver,pure - tin	3 Amps with resistant load @ 120VAC or 28VDC
C	Gold over Silver	C = Gold over silver	1 Amps with resistant load @ 250VAC
K	Gold Over Sliver	K = Gold over silver,pure - tin	
R	Cold	R = Gold	0.4.1/-14.4(1/4.)(2.00)/ (4.0
G	Gold	G = Gold,pure - tin	0.4 Volt-Amps(VA)max. @ 20V max. (AC or DC)







SOLDERING PROCESSES

MANUAL SOLDERING: Use soldering iron of 30 watts, controlled at 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

Pre-heat (A) Soak (B) Peak (C) Peak (D) Peak (E)	150°C 180°C ~200°C 200°C ~235°C 235°C ~260°C 260°C Peak : 260°C	Min 120s Min 150s Min 30s Min 40s Max 10s
Peak (C) Peak (D) Peak (E)	200°C ~235°C 235°C ~260°C 260°C	Min 30s Min 40s
Peak (D) Peak (E)	235°C~260°C 260°C	Min 40s
Peak (E)	260°C	
°C)		Max 10s
 	Peak ∶ 260°C	
200 -	B C D	E