



Specifications

Electrical

Maximum Power : 3.5VA
 Min./Max. Voltage : 20mV - 50V DC
 Min./Max. Current : 0.01mA - 250mA
 Insulation Resistance : $\geq 10^9\Omega$
 Contact Resistance : $\geq 50m\Omega$
 Dielectric Strength : $\geq 250V$ rms

Mechanical

Operating Force : 2.5 N at Full Travel
 Switching Travel : 0.13" (2.95mm)
 Latch Travel : 0.131" (3.3mm)
 Full Travel : 0.2" (5.1mm)

Operating Environment

Operating Temperature : -30°C To 85°C
 Storage Temperature : -30°C To 85°C
 Relative Humidity : 90% R.h. @80°C
 Operating Life : 30,000 Cycles
 Vibration : Per Eia 186-E Methods 7 & 8
 Mechanical Shock : Per Eia 186-E Methods 12
 Process Environment :
 Solderability : According To Mil Std 202F Method 208D Or Eia Rs-186E Method 9.
 Lead Free Process Compatible : 260°C peak, 10 seconds Max. above 250°C

Materials

Fixed Contacts And Terminals : Stainless Steel, Silver Plated With Gold Flash (Std.)
 Movable Contacts : Copper Alloy, Silver Plated With Gold Flash (Std.)
 Actuator : Glass Filled LCP
 Base : Glass Filled LCP
 Cover : Stainless Steel.



Switch Function

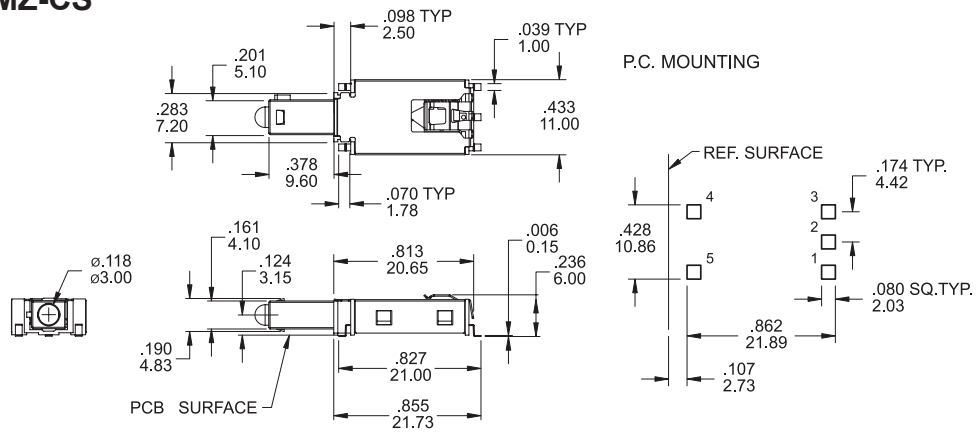
No. Poles	Model No.	Switch Function		Connected Terminals		SCHEMATIC
		POS.1	POS.2	POS.1	POS.2	
SP	MCPLS7	On	On (MOM)	3 - 4	2-3	
	MCPLSL	On	On		2-3	

MOM=Momentary

MCPLS Series

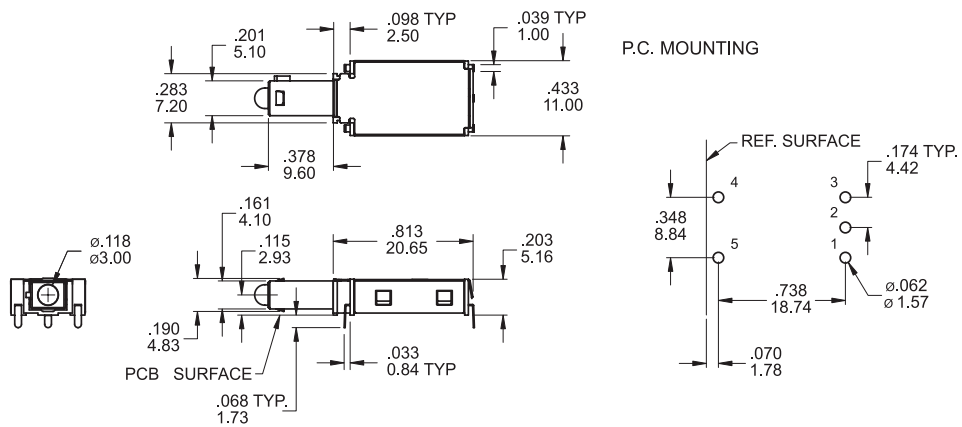


MCPLSL-P2X-MZ-CS



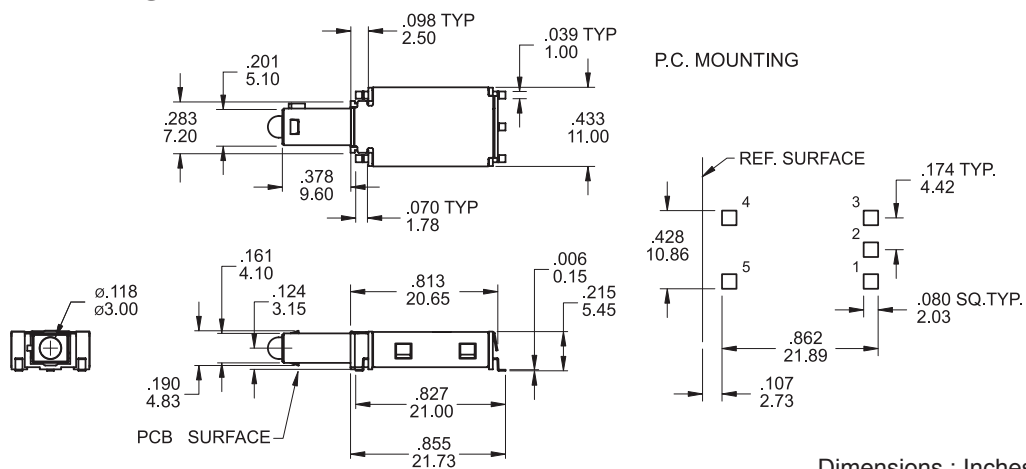
Dimensions : Inches (Millimeters)

MCPLS7-P2X-M6-CS



Dimensions : Inches (Millimeters)

MCPLS7-P2X-MZ-CS

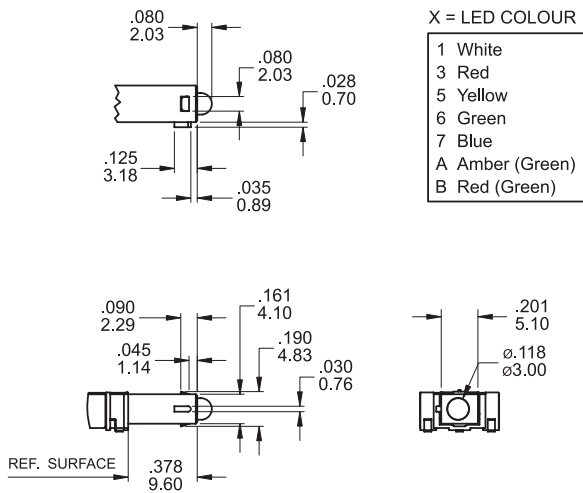


Dimensions : Inches (Millimeters)



Actuator Options

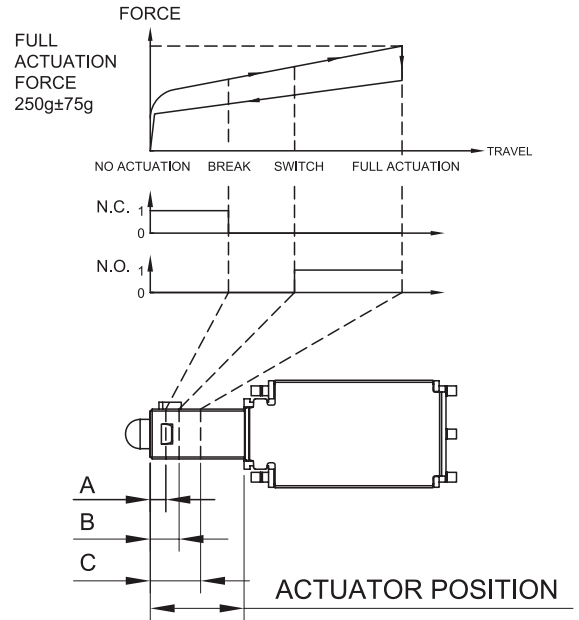
Without Window And Snap Feature To
P2X - Accept Custom Cap



- X = LED COLOUR
- 1 White
 - 3 Red
 - 5 Yellow
 - 6 Green
 - 7 Blue
 - A Amber (Green)
 - B Red (Green)

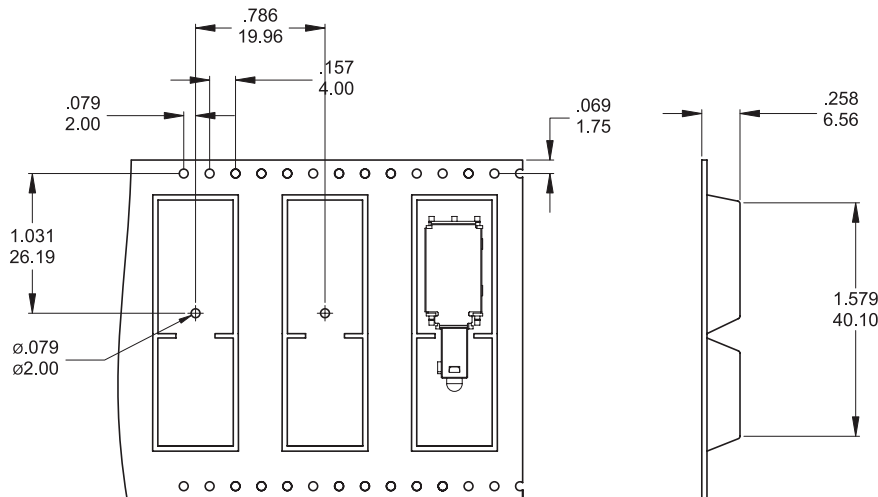
Dimensions : Inches (Millimeters)

Force And Travel Diagram



ACTUATOR POSITION		
A	BREAK	.039± .020 1.0±0.5mm
B	SWITCH	.069± .020 1.75±0.5mm
C	FULL ACTUATION	.203± .020 5.15±0.5mm

Tape & Reel



Dimensions : Inches (Millimeters)

Reel Information	
Quantity Per Reel	450 / pcs

With Led Electro-Optical Data

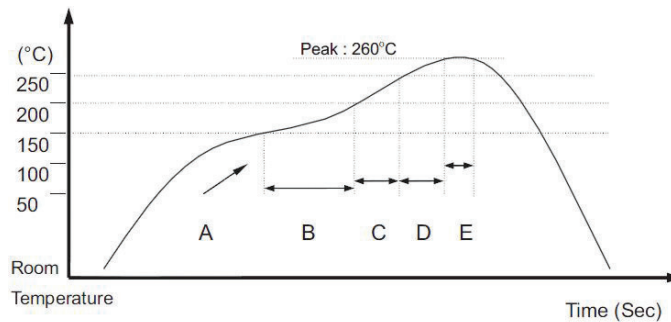
Lens Appearance	Colour	Electro-optical Data (AT 20mA)				Peak Wavelength	Viewing Angle 2θ 1/2 (deg)	
		Vf (V)		Iv (mcd)				
		Typ.	Max.	Min.	Typ.			
Water Clear	White	3.3	3.8	4,900	10,000	-	65°	
	Red	2.1	2.6	20	35	588	60°	
	Yellow	2.2	2.6	50	60	570	50°	
	Green	3.5	3.8	210	3	630	30°	
	Blue	2.1	2.5	19	550	470	75°	
	Amber (Green)	A	2.35	2.8	1	28	588	55°
		G	2.2	2.6	9	19	570	50°
	Red (Green)	R	2.35	2.8	-	1	630	-
		G	2.2	2.6	6	13	570	

Soldering Processes

Wave Soldering : Recommended Soldering Temperature : 260 ± 5°C
 Duration of Solder Immersion : Max 5 sec.
 (PCB is 1.6mm in thickness)

Soldering : Vapor phase & IR-reflow soldering can be applied

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 5s



Part Number Table

Description	Part Number
Switch, P/Button, On-Mom, Red Led	MCPLS7P23M6CS
Switch, P/Button, On-Mom, Red Led	MCPLS7P23MZCS
Switch, P/Button, On-Mom, Yellow Led	MCPLS7P25M6CS
Switch, P/Button, On-Mom, Yellow Led	MCPLS7P25MZCS
Switch, P/Button, On-Mom, Green Led	MCPLS7P26M6CS
Switch, P/Button, On-Mom, Green Led	MCPLS7P26MZCS
Switch, P/Button, On-Mom, Blue Led	MCPLS7P27M6CS
Switch, P/Button, On-Mom, Blue Led	MCPLS7P27MZCS
Switch, P/Button, On-On, Red Led	MCPLSLP23M6CS
Switch, P/Button, On-On, Red Led	MCPLSLP23MZCS
Switch, P/Button, On-On, Yellow Led	MCPLSLP25M6CS
Switch, P/Button, On-On, Yellow Led	MCPLSLP25MZCS
Switch, P/Button, On-On, Green Led	MCPLSLP26M6CS
Switch, P/Button, On-On, Green Led	MCPLSLP26MZCS
Switch, P/Button, On-On, Blue Led	MCPLSLP27M6CS
Switch, P/Button, On-On, Blue Led	MCPLSLP27MZCS

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